

[see C-141 Remediation Plan
for further details](#)

WV - 11/15/2022



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 – BRAVO DOME D LEG 10 (Leak Date: 7/17/20)

Incident ID: NRM2022458517

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NRM2022458517.

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).
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, SP9, SP11, and SP12 (BLUE shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP2 (PINK shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP3, SP8, and SP10 (YELLOW shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP4 – SP7 (ORANGE shade on diagram) will require zero remediation.

OXY will collect bottom and sidewall confirmation samples every 200 square feet. The estimated amount of soil to be excavated is 1,103 cubic yards. The remediation will be completed within 90 days of approval.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate 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

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Incident ID	NRM2022458517
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?	42 (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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. <input type="checkbox"/> Field data <input checked="" type="checkbox"/> Data table of soil contaminant concentration data <input checked="" type="checkbox"/> Depth to water determination <input checked="" type="checkbox"/> Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release <input type="checkbox"/> Boring or excavation logs <input type="checkbox"/> Photographs including date and GIS information <input checked="" type="checkbox"/> Topographic/Aerial maps <input checked="" type="checkbox"/> Laboratory data including chain of custody
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If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

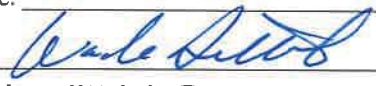
Form C-141

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Incident ID	NRM2022458517
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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: 6-16-21
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Form C-141

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Oil Conservation Division

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Incident ID	NRM2022458517
District RP	
Facility ID	
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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: 6-16-21
 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: 11/15/2022

Remediation plan approved with the following conditions for final closure report content;

1. Provide executive summary of work
2. Wetland & Karst maps
3. Topo map showing any well head protection areas within 1/2 mile from the release
4. Aerial map showing any significant watercourse within 1/2 mile of any horizontal boundary of the release
5. Clearly show horizontal delineation/confirmation samples for entire release perimeter
6. All confirmation samples must meet reclamation standards for 0-4 ft. below grade (chloride - 600 mg/kg, total TPH - 100 mg/kg, benzene - 10 mg/kg, total BTEX - 50 mg/kg)
7. Any/all field notes
8. Photos prior to backfilling showing; Title/Header, date/time of photo, orientation of photo (direction viewed), GIS data for any/all sample points, annotation or explanation to imagery content
9. Remedial activity documentation [e.g. confirmation sampling notification(s)]
10. Deadline to complete remediation and submit final report: 2/15/2023.

Oxy Bravo Dome D Leg 10

Leak Date: 7/17/20
Harding County, NM
Incident ID: nRM2022458517

Legend

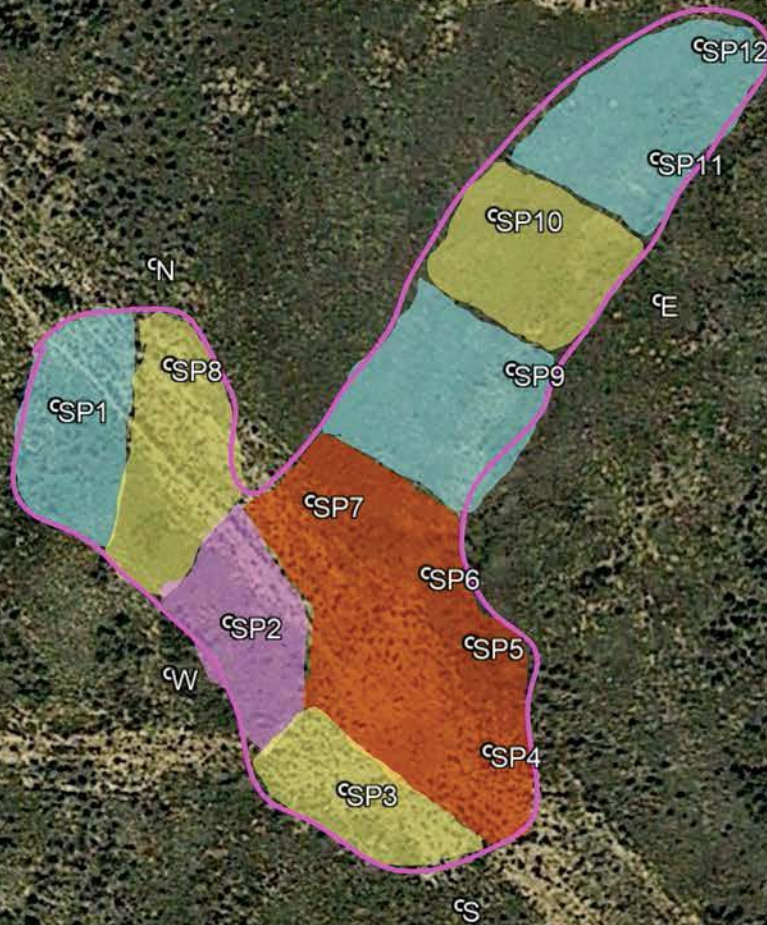
1' Excavation

2' Excavation

3' Excavation

Leak Area

Zero



SAMPLE POINTS - OXY BRAVO DOME LEG 10

SP1	N 35.952305°	W-103.628982°
SP2	N 35.952103°	W-103.628783°
SP3	N 35.951947°	W-103.628649°
SP4	N 35.951983°	W-103.628482°
SP5	N 35.952084°	W-103.628503°
SP6	N 35.952149°	W-103.628554°
SP7	N 35.952216°	W-103.628687°
SP8	N 35.952344°	W-103.628851°
SP9	N 35.952339°	W-103.628455°
SP10	N 35.952484°	W-103.628476°
SP11	N 35.952537°	W-103.628289°
SP12	N 35.952643°	W-103.628238°
NORTH	N 35.952438	W-103.628869
EAST	N 35.952404	W-103.628286
WEST	N 35.952055	W-103.628851
SOUTH	N 35.951838	W-103.628515°

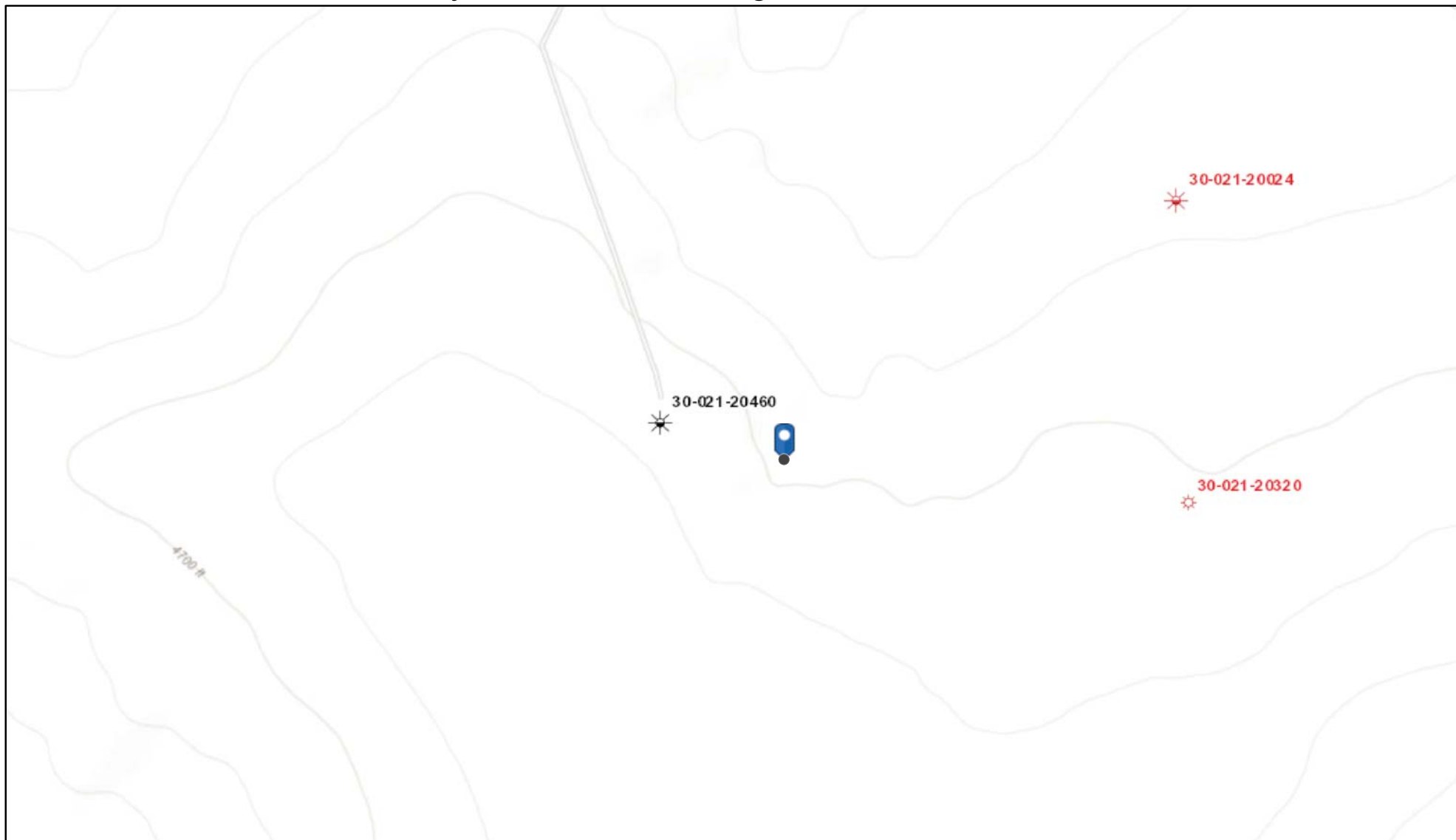
1982-02-08	D	72019	42.57		1	Z	A
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Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)
[Feedback on this web site](#)
[Automated retrievals](#)
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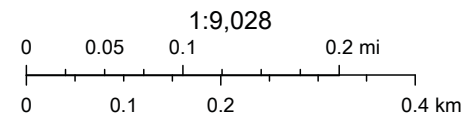
[Data Tips](#)
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Oxy, Bravo Dome D Leg 10 - 3000 FT H2O



6/28/2021, 2:42:24 PM

Wells - Large Scale	CO2, Cancelled	Gas, Active	Gas, Temporarily Abandoned	Injection, Plugged
undefined	CO2, New	Gas, Cancelled	Injection, Active	
Miscellaneous	CO2, Plugged	Gas, New	Injection, Cancelled	
CO2, Active	CO2, Temporarily Abandoned	Gas, Plugged	Injection, New	



Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

Laboratory Analytical Results Summary
Oxy, Bravo Dome D Leg(7/17/20)

		Sample ID	SP N @ SURFACE	SP E @ SURFACE	SP W @ SURFACE	SP S @ SURFACE
Analyte	Method	Date	5/11/21	5/11/21	5/11/21	5/11/21
			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		<16.0	<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	SP 1 @ SURFACE	SP 1 @ 1'	SP 1 @ 2'
Analyte	Method	Date	5/11/21	5/11/21	5/11/21
			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		416.0	624.0	160.0
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

		Sample ID	SP 2 @ SURFACE	SP 2 @ 1'	SP 2 @ 2'	SP 2 @ 3'	SP 2 @ 4'	SP 2 @ 5'
Analyte	Method	Date	5/11/21	5/11/21	5/11/21	5/11/21	5/11/21	5/11/21
			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		7600.0	2000.0	1140.0	528.0	16.0	160.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	<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	SP 3 @ SURFACE	SP 3 @ 1'	SP 3 @ 2'
Analyte	Method	Date	5/11/21	5/11/21	5/11/21
			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		736.0	<16.0	64.0
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

Laboratory Analytical Results Summary
Oxy, Bravo Dome D Leg(7/17/20)

		Sample ID	SP 4@ SURFACE	SP 4@ 1'	SP 4@ 2'
Analyte	Method	Date	5/11/21	5/11/21	5/11/21
			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		32.0	<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

		Sample ID	SP 5@ SURFACE	SP 5@ 1'	SP 5@ 2'
Analyte	Method	Date	5/11/21	5/11/21	5/11/21
			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		64.0	32.0	32.0
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

		Sample ID	SP 6@ SURFACE	SP 6@ 1'	SP 6@ 2'
Analyte	Method	Date	5/11/21	5/11/21	5/11/21
			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		512.0	272.0	240.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

Laboratory Analytical Results Summary
Oxy, Bravo Dome D Leg(7/17/20)

		Sample ID	SP 7@ SURFACE	SP 7@ 1'	SP 7@ 2'
Analyte	Method	Date	5/12/21	5/12/21	5/12/21
			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		256.0	464.0	48.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample ID	SP 8@ SURFACE	SP 8@ 1'	SP 8@ 2'
Analyte	Method	Date	5/12/21	5/12/21	5/12/21
			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		624.0	288.0	48.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		13.8	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample ID	SP 9@ SURFACE	SP 9@ 1'	SP 9@ 2'	SP 9@ 3'
Analyte	Method	Date	5/12/21	5/12/21	5/12/21	5/12/21
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A	N/A
Chloride	SM4500Cl-B		208.0	1020.0	352.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	N/A	N/A
DRO	TPH 8015M		<10.0	<10.0	N/A	N/A
EXT DRO	TPH 8015M		<10.0	<10.0	N/A	N/A

		Sample ID	SP 10@ SURFACE	SP 10@ 1'	SP 10@ 2'
Analyte	Method	Date	5/12/21	5/12/21	5/12/21
			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		2520.0	160.0	80.0
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

Laboratory Analytical Results Summary
Oxy, Bravo Dome D Leg(7/17/20)

		Sample ID	SP 11@ SURFACE	SP 11@ 1'	SP 11@ 2'
Analyte	Method	Date	5/12/21	5/12/21	5/12/21
			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		4000.0	1840.0	< 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

		Sample ID	SP 12@ SURFACE	SP 12@ 1'	SP 12@ 2'	SP 12@ 3'
Analyte	Method	Date	5/12/21	5/12/21	5/12/21	5/12/21
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A	N/A
Chloride	SM4500Cl-B		4560.0	1760.0	448.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	N/A	N/A
DRO	TPH 8015M		<10.0	<10.0	N/A	N/A
EXT DRO	TPH 8015M		<10.0	<10.0	N/A	N/A



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

May 26, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BRAVO DOME D LEG

Enclosed are the results of analyses for samples received by the laboratory on 05/17/21 16:45.

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/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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP N @ SURFACE	H211282-01	Soil	11-May-21 00:00	17-May-21 16:45
SP E @ SURFACE	H211282-02	Soil	11-May-21 00:00	17-May-21 16:45
SP W @ SURFACE	H211282-03	Soil	11-May-21 00:00	17-May-21 16:45
SP S @ SURFACE	H211282-04	Soil	11-May-21 00:00	17-May-21 16:45
SP 1 @ SURFACE	H211282-05	Soil	11-May-21 00:00	17-May-21 16:45
SP 1 @ 1'	H211282-06	Soil	11-May-21 00:00	17-May-21 16:45
SP 1 @ 2'	H211282-07	Soil	11-May-21 00:00	17-May-21 16:45
SP 2 @ SURFACE	H211282-08	Soil	11-May-21 00:00	17-May-21 16:45
SP 2 @ 1'	H211282-09	Soil	11-May-21 00:00	17-May-21 16:45
SP 2 @ 3'	H211282-10	Soil	11-May-21 00:00	17-May-21 16:45
SP 2 @ 4'	H211282-11	Soil	11-May-21 00:00	17-May-21 16:45
SP 2 @ 5'	H211282-12	Soil	11-May-21 00:00	17-May-21 16:45
SP 3 @ SURFACE	H211282-13	Soil	11-May-21 00:00	17-May-21 16:45
SP 3 @ 1'	H211282-14	Soil	11-May-21 00:00	17-May-21 16:45
SP 3 @ 2'	H211282-15	Soil	11-May-21 00:00	17-May-21 16:45
SP 4 @ SURFACE	H211282-16	Soil	11-May-21 00:00	17-May-21 16:45
SP 4 @ 1'	H211282-17	Soil	11-May-21 00:00	17-May-21 16:45
SP 4 @ 2'	H211282-18	Soil	11-May-21 00:00	17-May-21 16:45
SP 5 @ SURFACE	H211282-19	Soil	12-May-21 00:00	17-May-21 16:45
SP 5 @ 1'	H211282-20	Soil	12-May-21 00:00	17-May-21 16:45
SP 5 @ 2'	H211282-21	Soil	12-May-21 00:00	17-May-21 16:45
SP 6 @ SURFACE	H211282-22	Soil	12-May-21 00:00	17-May-21 16:45
SP 6 @ 1'	H211282-23	Soil	12-May-21 00:00	17-May-21 16:45
SP 6 @ 2'	H211282-24	Soil	12-May-21 00:00	17-May-21 16:45
SP 7 @ SURFACE	H211282-25	Soil	12-May-21 00:00	17-May-21 16:45
SP 7 @ 1'	H211282-26	Soil	12-May-21 00:00	17-May-21 16:45
SP 7 @ 2'	H211282-27	Soil	12-May-21 00:00	17-May-21 16:45

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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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 8 @ SURFACE	H211282-28	Soil	12-May-21 00:00	17-May-21 16:45
SP 8 @ 1'	H211282-29	Soil	12-May-21 00:00	17-May-21 16:45
SP 8 @ 2'	H211282-30	Soil	12-May-21 00:00	17-May-21 16:45
SP 9 @ SURFACE	H211282-31	Soil	12-May-21 00:00	17-May-21 16:45
SP 9 @ 1'	H211282-32	Soil	12-May-21 00:00	17-May-21 16:45
SP 9 @ 2'	H211282-33	Soil	12-May-21 00:00	17-May-21 16:45
SP 10 @ SURFACE	H211282-34	Soil	12-May-21 00:00	17-May-21 16:45
SP 10 @ 1'	H211282-35	Soil	12-May-21 00:00	17-May-21 16:45
SP 10 @ 2'	H211282-36	Soil	12-May-21 00:00	17-May-21 16:45
SP 11 @ SURFACE	H211282-37	Soil	12-May-21 00:00	17-May-21 16:45
SP 11 @ 1'	H211282-38	Soil	12-May-21 00:00	17-May-21 16:45
SP 11 @ 2'	H211282-39	Soil	12-May-21 00:00	17-May-21 16:45
SP 12 @ SURFACE	H211282-40	Soil	12-May-21 00:00	17-May-21 16:45
SP 12 @ 1'	H211282-41	Soil	12-May-21 00:00	17-May-21 16:45
SP 12 @ 2'	H211282-42	Soil	12-May-21 00:00	17-May-21 16:45
SP 12 @ 3'	H211282-43	Soil	12-May-21 00:00	17-May-21 16:45
SP 2 @ 2'	H211282-44	Soil	11-May-21 00:00	17-May-21 16:45
SP 9 @ 3'	H211282-45	Soil	12-May-21 00:00	17-May-21 16:45

05/26/21 - Client added BTEX and TPH to samples -22, -25 and -28 on 05/24/21. This is the revised report and will replace the one sent on 05/21/21.

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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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP N @ SURFACE
H211282-01 (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	1051920	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051814	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051814	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140 1051814 MS 19-May-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane 71.8 % 44.3-133 1051807 MS 19-May-21 8015B

Surrogate: 1-Chlorooctadecane 66.5 % 38.9-142 1051807 MS 19-May-21 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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SPE @ SURFACE**H211282-02 (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	1051920	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051814	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051814	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140 1051814 MS 19-May-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane 87.2 % 44.3-133 1051807 MS 19-May-21 8015B

Surrogate: 1-Chlorooctadecane 79.8 % 38.9-142 1051807 MS 19-May-21 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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP W @ SURFACE**H211282-03 (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	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051814	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051814	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		69.9-140	1051814	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane			81.5 %		44.3-133	1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			77.0 %		38.9-142	1051807	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SPS @ SURFACE**H211282-04 (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	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051814	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051814	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %		69.9-140	1051814	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane			88.2 %		44.3-133	1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			81.6 %		38.9-142	1051807	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 1 @ SURFACE**H211282-05 (Soil)**

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

Chloride	416		16.0	mg/kg	4	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051814	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051814	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		69.9-140	1051814	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane			85.7 %		44.3-133	1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			79.8 %		38.9-142	1051807	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 1 @ 1'
H211282-06 (Soil)

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

Chloride	624		16.0	mg/kg	4	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1051814	MS	19-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1051814	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	112 %	69.9-140	1051814	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane	88.1 %	44.3-133	1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	84.5 %	38.9-142	1051807	MS	19-May-21	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, 88241Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
26-May-21 12:03**SP 1 @ 2'**
H211282-07 (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	1051921	AC	19-May-21	4500-Cl-B	
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 2 @ SURFACE**H211282-08 (Soil)**

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

Chloride	7600		16.0	mg/kg	4	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1051814	MS	19-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1051814	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	111 %	69.9-140	1051814	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane	83.1 %	44.3-133	1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	77.0 %	38.9-142	1051807	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 2 @ 1'
H211282-09 (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	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1051814	MS	19-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1051814	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	112 %	69.9-140	1051814	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane	88.2 %	44.3-133	1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	82.2 %	38.9-142	1051807	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 2 @ 3'
H211282-10 (Soil)

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

Chloride	528		16.0	mg/kg	4	1051921	AC	19-May-21	4500-Cl-B	
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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 2 @ 4'
H211282-11 (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	1051921	AC	19-May-21	4500-Cl-B	
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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 2 @ 5'
H211282-12 (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	1051921	AC	19-May-21	4500-Cl-B	
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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 3 @ SURFACE**H211282-13 (Soil)**

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

Chloride	736		16.0	mg/kg	4	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051814	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051814	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %		69.9-140	1051814	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane			83.7 %		44.3-133	1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			77.1 %		38.9-142	1051807	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 3 @ 1'
H211282-14 (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	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051814	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051814	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	69.9-140		1051814	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane			80.9 %	44.3-133		1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			74.5 %	38.9-142		1051807	MS	19-May-21	8015B	
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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 3 @ 2'
H211282-15 (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	1051921	AC	19-May-21	4500-Cl-B	
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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 4 @ SURFACE**H211282-16 (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	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051814	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051814	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051814	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		69.9-140	1051814	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane			83.5 %		44.3-133	1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			74.9 %		38.9-142	1051807	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 4 @ 1'
H211282-17 (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	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	69.9-140		1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane			78.4 %	44.3-133		1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			70.8 %	38.9-142		1051807	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 4 @ 2'
H211282-18 (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	1051921	AC	19-May-21	4500-Cl-B	
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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 5 @ SURFACE**H211282-19 (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	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	69.9-140		1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane			83.4 %	44.3-133		1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			76.4 %	38.9-142		1051807	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 5 @ 1'
H211282-20 (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	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051807	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane			84.2 %	44.3-133		1051807	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			77.1 %	38.9-142		1051807	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 5 @ 2'
H211282-21 (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	1051921	AC	19-May-21	4500-Cl-B	
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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 6 @ SURFACE**H211282-22 (Soil)**

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

Chloride	512		16.0	mg/kg	4	1051921	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052410	MS	25-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052410	MS	25-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052410	MS	25-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052410	MS	25-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052410	MS	25-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140 1052410 MS 25-May-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052501	MS	25-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052501	MS	25-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052501	MS	25-May-21	8015B	

Surrogate: 1-Chlorooctane 80.6 % 44.3-133 1052501 MS 25-May-21 8015B

Surrogate: 1-Chlorooctadecane 79.4 % 38.9-142 1052501 MS 25-May-21 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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 6 @ 1'
H211282-23 (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	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	107 %	69.9-140	1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane	83.3 %	44.3-133	1051808	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	80.2 %	38.9-142	1051808	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 6 @ 2'
H211282-24 (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	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %		69.9-140	1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.7 %		44.3-133	1051808	MS	19-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			83.9 %		38.9-142	1051808	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 7 @ SURFACE**H211282-25 (Soil)**

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

Chloride	256		16.0	mg/kg	4	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052410	MS	25-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052410	MS	25-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052410	MS	25-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052410	MS	25-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052410	MS	25-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		69.9-140	1052410	MS	25-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052501	MS	25-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052501	MS	25-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052501	MS	25-May-21	8015B	

Surrogate: 1-Chlorooctane			81.4 %		44.3-133	1052501	MS	25-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			80.3 %		38.9-142	1052501	MS	25-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 7 @ 1'
H211282-26 (Soil)

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

Chloride	464		16.0	mg/kg	4	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140 1051902 MS 19-May-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane 85.2 % 44.3-133 1051808 MS 19-May-21 8015B

Surrogate: 1-Chlorooctadecane 81.8 % 38.9-142 1051808 MS 19-May-21 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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 7 @ 2'
H211282-27 (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	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	69.9-140		1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			79.8 %	44.3-133		1051808	MS	19-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			75.1 %	38.9-142		1051808	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 8 @ SURFACE**H211282-28 (Soil)**

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

Chloride	624		16.0	mg/kg	4	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052410	MS	25-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052410	MS	25-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052410	MS	25-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052410	MS	25-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052410	MS	25-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140 1052410 MS 25-May-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052501	MS	25-May-21	8015B	
DRO >C10-C28*	13.8		10.0	mg/kg	1	1052501	MS	25-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052501	MS	25-May-21	8015B	

Surrogate: 1-Chlorooctane 81.7 % 44.3-133 1052501 MS 25-May-21 8015B

Surrogate: 1-Chlorooctadecane 82.1 % 38.9-142 1052501 MS 25-May-21 8015B

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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 8 @ 1'
H211282-29 (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	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			77.3 %	44.3-133		1051808	MS	19-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			74.2 %	38.9-142		1051808	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 8 @ 2'
H211282-30 (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	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	69.9-140		1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.5 %	44.3-133		1051808	MS	19-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			71.3 %	38.9-142		1051808	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 9 @ SURFACE**H211282-31 (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	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140 1051902 MS 19-May-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane 79.0 % 44.3-133 1051808 MS 19-May-21 8015B

Surrogate: 1-Chlorooctadecane 75.0 % 38.9-142 1051808 MS 19-May-21 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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 9 @ 1'
H211282-32 (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	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	69.9-140	1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane	87.4 %	44.3-133	1051808	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	83.0 %	38.9-142	1051808	MS	19-May-21	8015B	
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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 9 @ 2'
H211282-33 (Soil)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	352		16.0	mg/kg	4	1051922	AC	19-May-21	4500-Cl-B	

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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 10 @ SURFACE**H211282-34 (Soil)**

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

Chloride	2520		16.0	mg/kg	4	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140 1051902 MS 19-May-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane 86.8 % 44.3-133 1051808 MS 19-May-21 8015B

Surrogate: 1-Chlorooctadecane 82.7 % 38.9-142 1051808 MS 19-May-21 8015B

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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 10 @ 1'
H211282-35 (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	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140 1051902 MS 19-May-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane 84.9 % 44.3-133 1051808 MS 19-May-21 8015B

Surrogate: 1-Chlorooctadecane 82.1 % 38.9-142 1051808 MS 19-May-21 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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 10 @ 2'
H211282-36 (Soil)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	80.0		16.0	mg/kg	4	1051922	AC	19-May-21	4500-Cl-B	

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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 11 @ SURFACE**H211282-37 (Soil)**

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

Chloride	4000		16.0	mg/kg	4	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		69.9-140	1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane			80.4 %		44.3-133	1051808	MS	19-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			78.7 %		38.9-142	1051808	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 11 @ 1'
H211282-38 (Soil)

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

Chloride	1840		16.0	mg/kg	4	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %		69.9-140	1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.8 %		44.3-133	1051808	MS	19-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.6 %		38.9-142	1051808	MS	19-May-21	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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 11 @ 2'
H211282-39 (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	1051922	AC	19-May-21	4500-Cl-B	
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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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 12 @ SURFACE**H211282-40 (Soil)**

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

Chloride	4560		16.0	mg/kg	4	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.9-140 1051902 MS 19-May-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

Surrogate: 1-Chlorooctane 74.2 % 44.3-133 1051808 MS 19-May-21 8015B

Surrogate: 1-Chlorooctadecane 70.5 % 38.9-142 1051808 MS 19-May-21 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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 12 @ 1'
H211282-41 (Soil)

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

Chloride	1760		16.0	mg/kg	4	1051922	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		69.9-140	1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1051808	MS	19-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.5 %		44.3-133	1051808	MS	19-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			83.4 %		38.9-142	1051808	MS	19-May-21	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, 88241Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
26-May-21 12:03**SP 12 @ 2'**
H211282-42 (Soil)

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

Chloride	448		16.0	mg/kg	4	1051922	AC	19-May-21	4500-Cl-B	
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 12 @ 3'
H211282-43 (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	1051910	AC	19-May-21	4500-Cl-B	
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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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

SP 2 @ 2'
H211282-44 (Soil)

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

Chloride	1140		16.0	mg/kg	4	1051910	AC	19-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1051902	MS	19-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1051902	MS	19-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1051902	MS	19-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	69.9-140	1051902	MS	19-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1051907	MS	20-May-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1051907	MS	20-May-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1051907	MS	20-May-21	8015B	

Surrogate: 1-Chlorooctane	75.1 %	44.3-133	1051907	MS	20-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	73.4 %	38.9-142	1051907	MS	20-May-21	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, 88241Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
26-May-21 12:03**SP 9 @ 3'**
H211282-45 (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	1051910	AC	19-May-21	4500-Cl-B	
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

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 1051910 - 1:4 DI Water**Blank (1051910-BLK1)**

Prepared & Analyzed: 19-May-21

Chloride	ND	16.0	mg/kg
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LCS (1051910-BS1)

Prepared & Analyzed: 19-May-21

Chloride	400	16.0	mg/kg	400	100	80-120
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LCS Dup (1051910-BSD1)

Prepared & Analyzed: 19-May-21

Chloride	400	16.0	mg/kg	400	100	80-120	0.00	20
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Batch 1051920 - 1:4 DI Water**Blank (1051920-BLK1)**

Prepared & Analyzed: 19-May-21

Chloride	ND	16.0	mg/kg
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LCS (1051920-BS1)

Prepared & Analyzed: 19-May-21

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (1051920-BSD1)

Prepared & Analyzed: 19-May-21

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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Batch 1051921 - 1:4 DI Water**Blank (1051921-BLK1)**

Prepared & Analyzed: 19-May-21

Chloride	ND	16.0	mg/kg
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LCS (1051921-BS1)

Prepared & Analyzed: 19-May-21

Chloride	400	16.0	mg/kg	400	100	80-120
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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

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 1051921 - 1:4 DI Water**LCS Dup (1051921-BSD1)**

Prepared & Analyzed: 19-May-21

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
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Batch 1051922 - 1:4 DI Water**Blank (1051922-BLK1)**

Prepared & Analyzed: 19-May-21

Chloride	ND	16.0	mg/kg							
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LCS (1051922-BS1)

Prepared & Analyzed: 19-May-21

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (1051922-BSD1)

Prepared & Analyzed: 19-May-21

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

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 1051814 - Volatiles**Blank (1051814-BLK1)**

Prepared: 18-May-21 Analyzed: 19-May-21

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)	0.0549		mg/kg	0.0500		110	69.9-140			

LCS (1051814-BS1)

Prepared: 18-May-21 Analyzed: 19-May-21

Benzene	1.89	0.050	mg/kg	2.00		94.6	89.9-120			
Toluene	1.91	0.050	mg/kg	2.00		95.4	90.8-117			
Ethylbenzene	1.88	0.050	mg/kg	2.00		93.8	88.9-116			
m,p-Xylene	3.78	0.100	mg/kg	4.00		94.5	85.5-118			
o-Xylene	1.93	0.050	mg/kg	2.00		96.4	85.5-118			
Total Xylenes	5.71	0.150	mg/kg	6.00		95.1	85.5-118			
Surrogate: 4-Bromofluorobenzene (PID)	0.0551		mg/kg	0.0500		110	69.9-140			

LCS Dup (1051814-BSD1)

Prepared: 18-May-21 Analyzed: 19-May-21

Benzene	2.05	0.050	mg/kg	2.00		102	89.9-120	7.87	10.3	
Toluene	2.07	0.050	mg/kg	2.00		103	90.8-117	7.95	10.5	
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	88.9-116	7.76	10.8	
m,p-Xylene	4.06	0.100	mg/kg	4.00		102	85.5-118	7.23	10.7	
o-Xylene	2.08	0.050	mg/kg	2.00		104	85.5-118	7.62	10.7	
Total Xylenes	6.14	0.150	mg/kg	6.00		102	85.5-118	7.36	10.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0556		mg/kg	0.0500		111	69.9-140			

Batch 1051902 - Volatiles**Blank (1051902-BLK1)**

Prepared & Analyzed: 19-May-21

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							

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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

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 1051902 - Volatiles**Blank (1051902-BLK1)**

Prepared & Analyzed: 19-May-21

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0535		mg/kg	0.0500		107	69.9-140			

LCS (1051902-BS1)

Prepared & Analyzed: 19-May-21

Benzene	1.84	0.050	mg/kg	2.00		92.1	89.9-120			
Toluene	2.11	0.050	mg/kg	2.00		105	90.8-117			
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	88.9-116			
m,p-Xylene	4.28	0.100	mg/kg	4.00		107	85.5-118			
o-Xylene	2.08	0.050	mg/kg	2.00		104	85.5-118			
Total Xylenes	6.36	0.150	mg/kg	6.00		106	85.5-118			
Surrogate: 4-Bromofluorobenzene (PID)	0.0548		mg/kg	0.0500		110	69.9-140			

LCS Dup (1051902-BS1)

Prepared & Analyzed: 19-May-21

Benzene	1.92	0.050	mg/kg	2.00		96.2	89.9-120	4.37	10.3	
Toluene	2.16	0.050	mg/kg	2.00		108	90.8-117	2.78	10.5	
Ethylbenzene	2.25	0.050	mg/kg	2.00		112	88.9-116	4.56	10.8	
m,p-Xylene	4.42	0.100	mg/kg	4.00		110	85.5-118	3.03	10.7	
o-Xylene	2.19	0.050	mg/kg	2.00		109	85.5-118	5.18	10.7	
Total Xylenes	6.60	0.150	mg/kg	6.00		110	85.5-118	3.74	10.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0541		mg/kg	0.0500		108	69.9-140			

Batch 1052410 - Volatiles**Blank (1052410-BLK1)**

Prepared: 24-May-21 Analyzed: 25-May-21

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)	0.0503		mg/kg	0.0500		101	69.9-140			

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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

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 1052410 - Volatiles**LCS (1052410-BS1)**

Prepared: 24-May-21 Analyzed: 25-May-21

Benzene	2.11	0.050	mg/kg	2.00		105	89.9-120			
Toluene	2.19	0.050	mg/kg	2.00		110	90.8-117			
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	88.9-116			
m,p-Xylene	4.31	0.100	mg/kg	4.00		108	85.5-118			
o-Xylene	2.10	0.050	mg/kg	2.00		105	85.5-118			
Total Xylenes	6.42	0.150	mg/kg	6.00		107	85.5-118			

Surrogate: 4-Bromofluorobenzene (PID)

0.0533

mg/kg

0.0500

107

69.9-140

LCS Dup (1052410-BS1)

Prepared: 24-May-21 Analyzed: 25-May-21

Benzene	2.10	0.050	mg/kg	2.00		105	89.9-120	0.172	10.3	
Toluene	2.21	0.050	mg/kg	2.00		110	90.8-117	0.644	10.5	
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	88.9-116	0.691	10.8	
m,p-Xylene	4.30	0.100	mg/kg	4.00		108	85.5-118	0.322	10.7	
o-Xylene	2.12	0.050	mg/kg	2.00		106	85.5-118	0.937	10.7	
Total Xylenes	6.42	0.150	mg/kg	6.00		107	85.5-118	0.0923	10.7	

Surrogate: 4-Bromofluorobenzene (PID)

0.0531

mg/kg

0.0500

106

69.9-140

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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

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 1051807 - General Prep - Organics**Blank (1051807-BLK1)**

Prepared: 18-May-21 Analyzed: 19-May-21

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	53.7		mg/kg	50.0		107	44.3-133			
Surrogate: 1-Chlorooctadecane	51.1		mg/kg	50.0		102	38.9-142			

LCS (1051807-BS1)

Prepared: 18-May-21 Analyzed: 19-May-21

GRO C6-C10	216	10.0	mg/kg	200		108	83.4-129			
DRO >C10-C28	201	10.0	mg/kg	200		101	84.3-133			
Total TPH C6-C28	417	10.0	mg/kg	400		104	85.3-130			
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	44.3-133			
Surrogate: 1-Chlorooctadecane	54.7		mg/kg	50.0		109	38.9-142			

LCS Dup (1051807-BS1)

Prepared: 18-May-21 Analyzed: 19-May-21

GRO C6-C10	234	10.0	mg/kg	200		117	83.4-129	8.07	12.6	
DRO >C10-C28	224	10.0	mg/kg	200		112	84.3-133	10.4	12.1	
Total TPH C6-C28	457	10.0	mg/kg	400		114	85.3-130	9.23	11.6	
Surrogate: 1-Chlorooctane	58.6		mg/kg	50.0		117	44.3-133			
Surrogate: 1-Chlorooctadecane	57.0		mg/kg	50.0		114	38.9-142			

Batch 1051808 - General Prep - Organics**Blank (1051808-BLK1)**

Prepared: 18-May-21 Analyzed: 19-May-21

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	55.1		mg/kg	50.0		110	44.3-133			
Surrogate: 1-Chlorooctadecane	54.9		mg/kg	50.0		110	38.9-142			

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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

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 1051808 - General Prep - Organics**LCS (1051808-BS1)**

Prepared: 18-May-21 Analyzed: 19-May-21

GRO C6-C10	208	10.0	mg/kg	200		104	83.4-129			
DRO >C10-C28	225	10.0	mg/kg	200		113	84.3-133			
Total TPH C6-C28	433	10.0	mg/kg	400		108	85.3-130			
Surrogate: 1-Chlorooctane	57.5		mg/kg	50.0		115	44.3-133			
Surrogate: 1-Chlorooctadecane	58.5		mg/kg	50.0		117	38.9-142			

LCS Dup (1051808-BS1)

Prepared: 18-May-21 Analyzed: 19-May-21

GRO C6-C10	225	10.0	mg/kg	200		113	83.4-129	8.08	12.6	
DRO >C10-C28	235	10.0	mg/kg	200		118	84.3-133	4.27	12.1	
Total TPH C6-C28	460	10.0	mg/kg	400		115	85.3-130	6.12	11.6	
Surrogate: 1-Chlorooctane	59.5		mg/kg	50.0		119	44.3-133			
Surrogate: 1-Chlorooctadecane	58.8		mg/kg	50.0		118	38.9-142			

Batch 1051907 - General Prep - Organics**Blank (1051907-BLK1)**

Prepared: 19-May-21 Analyzed: 21-May-21

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	45.3		mg/kg	50.0		90.6	44.3-133			
Surrogate: 1-Chlorooctadecane	45.1		mg/kg	50.0		90.3	38.9-142			

LCS (1051907-BS1)

Prepared: 19-May-21 Analyzed: 21-May-21

GRO C6-C10	202	10.0	mg/kg	200		101	83.4-129			
DRO >C10-C28	181	10.0	mg/kg	200		90.3	84.3-133			
Total TPH C6-C28	383	10.0	mg/kg	400		95.8	85.3-130			
Surrogate: 1-Chlorooctane	45.0		mg/kg	50.0		90.0	44.3-133			
Surrogate: 1-Chlorooctadecane	44.7		mg/kg	50.0		89.4	38.9-142			

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Analytical Results For:

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

Project: BRAVO DOME D LEG
Project Number: (7-17-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
26-May-21 12:03

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 1051907 - General Prep - Organics**LCS Dup (1051907-BSD1)**

Prepared: 19-May-21 Analyzed: 21-May-21

GRO C6-C10	203	10.0	mg/kg	200		101	83.4-129	0.0913	12.6	
DRO >C10-C28	181	10.0	mg/kg	200		90.5	84.3-133	0.231	12.1	
Total TPH C6-C28	384	10.0	mg/kg	400		95.9	85.3-130	0.157	11.6	
Surrogate: 1-Chlorooctane	44.9		mg/kg	50.0		89.9	44.3-133			
Surrogate: 1-Chlorooctadecane	44.7		mg/kg	50.0		89.4	38.9-142			

Batch 1052501 - General Prep - Organics**Blank (1052501-BLK1)**

Prepared & Analyzed: 25-May-21

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	44.4		mg/kg	50.0		88.9	44.3-133			
Surrogate: 1-Chlorooctadecane	44.1		mg/kg	50.0		88.2	38.9-142			

LCS (1052501-BS1)

Prepared & Analyzed: 25-May-21

GRO C6-C10	219	10.0	mg/kg	200		110	83.4-129			
DRO >C10-C28	208	10.0	mg/kg	200		104	84.3-133			
Total TPH C6-C28	428	10.0	mg/kg	400		107	85.3-130			
Surrogate: 1-Chlorooctane	49.9		mg/kg	50.0		99.8	44.3-133			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.5	38.9-142			

LCS Dup (1052501-BSD1)

Prepared & Analyzed: 25-May-21

GRO C6-C10	211	10.0	mg/kg	200		105	83.4-129	4.03	12.6	
DRO >C10-C28	204	10.0	mg/kg	200		102	84.3-133	2.22	12.1	
Total TPH C6-C28	415	10.0	mg/kg	400		104	85.3-130	3.14	11.6	
Surrogate: 1-Chlorooctane	49.9		mg/kg	50.0		99.8	44.3-133			
Surrogate: 1-Chlorooctadecane	47.6		mg/kg	50.0		95.1	38.9-142			

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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

Notes and Definitions

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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*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: <i>Simon Pena</i>		Date: <i>5-17-21</i>	Received By: <i>Isaiah Pena</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>8:00 AM</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Isaiah Pena</i>		Date: <i>5-17-21</i>	Received By: <i>Isaiah Pena</i>	REMARKS:	
Time: <i>4:45 PM</i>					
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Cool Intact		<i>TP</i>	
<i>0.8c #113</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO												ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:																							
Address: P.O. Box 805				Company: OXY																							
City: Hobbs		State: NM Zip: 88241		Attn: WADE																							
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																							
Project #:		Project Owner: Oxy		City:																							
Project Name: BRAVO DOME D LEG (7-17-20)				State: Zip:																							
Project Location:				Phone #:																							
Sampler Name: SIMON RENDON				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		GRAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING															
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		ACID/BASE ICE / COOL OTHER :		DATE		TIME		CL		BTEX		TPH		EXT					
H211282				G		1						5-11-21				✓											
11 SP2 @ 4'												5-11-21				✓											
12 SP2 @ 5'												5-11-21				✓		✓		✓							
13 SP3 @ SURFACE												5-11-21				✓		✓		✓							
14 SP3 @ 1'												5-11-21				✓		✓		✓							
15 SP3 @ 2'												5-11-21				✓											
16 SP4 @ SURFACE												5-11-21				✓		✓		✓							
17 SP4 @ 1'												5-11-21				✓		✓		✓							
18 SP4 @ 2												5-11-21				✓											
19 SP5 @ SURFACE												5-12-21				✓		✓		✓							
20 SP5 @ 1'												5-12-21				✓		✓		✓							

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Relinquished By: <i>Simon Rendon</i>	Date: 5-17-21	Received By: <i>Israel Pina</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>Israel Pina</i>	Date: 5-17-21	Received By: <i>Isabella Pina</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time: 8:00 AM	Time: 4:45 PM	REMARKS:	
Sampler - UPS - Bus - Other:	0.8° #113	Sample Condition: Cool / Intact	CHECKED BY: (Initials)	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>IS</i>	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476						BILL TO								ANALYSIS REQUEST														
Company Name: BBC International, Inc.						P.O. #:																						
Project Manager: Cliff Brunson						Company: OXY																						
Address: P.O. Box 805						Attn: WADE																						
City: Hobbs		State: NM		Zip: 88241		Address:																						
Phone #: 575-397-6388		Fax #: 575-397-0397		City:																								
Project #:		Project Owner: Oxy		State:						Zip:																		
Project Name: BRAVO DOME D LEG (7-17-20)						Phone #:																						
Project Location:						Fax #:																						
Sampler Name: SIMON RENDON																												
FOR LAB USE ONLY						MATRIX				PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH	EXT										
H211282																												
21	SP5 @ 2'	G	I			I					I		5-12-21		✓													
22	SP6 @ SURFACE												5-12-21		✓	X	X		added 5/24/21									
23	SP6 @ 1'												5-12-21		✓	✓	✓											
24	SP6 @ 2'												5-12-21		✓	✓	✓											
25	SP7 @ SURFACE												5-12-21		✓	X	X		added 5/24/21									
26	SP7 @ 1'												5-12-21		✓	✓	✓											
27	SP7 @ 2'												5-12-21		✓	✓	✓											
28	SP8 @ SURFACE												5-12-21		✓	X	X		added 5/24/21									
29	SP8 @ 1'												5-12-21		✓	✓	✓											
30	SP8 @ 2'												5-12-21		✓	✓	✓											

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Relinquished By: <i>Simon Leroy</i> Date: <i>5-17-21</i> Time: <i>8:00 AM</i>		Received By: <i>Israel Pena</i> Date: <i>5-17-21</i> Time: <i>4:45 PM</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS:	
Relinquished By: <i>Israel Pena</i> Date: <i>5-17-21</i> Time: <i>4:45 PM</i>		Received By: <i>Samuel P. Delatorre</i> Date: <i>5-17-21</i> Time: <i>4:45 PM</i>		Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>Q.8c #113</i>	
Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <i>TD</i>			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 62 of 62

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Cliff Brunson				P.O. #:																			
Address: P.O. Box 805				Company: OXY																			
City: Hobbs State: NM Zip: 88241				Attn: WADE																			
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																			
Project #: Project Owner: Oxy				City:																			
Project Name: BRAVO DOME D LEG (7-17-20)				State: Zip:																			
Project Location:				Phone #:																			
Sampler Name: SIMON RENDON				Fax #:																			
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING													
Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CL	BTEX	TPH EXT						
H211282																							
40	SP12 @ SURFACE	G	I			I					I		5-12-21		✓	✓	✓						
41	SP12 @ 1'												5-12-21		✓	✓	✓						
42	SP12 @ 2'												5-12-21		✓								
43	SP12 @ 3'												5-12-21		✓								
44	SP2 @ 2'												5-11-21		✓	✓	✓	added					
45	SP9 @ 3'												5-12-21		✓								

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Relinquished By: <i>Simon Rendon</i>	Date: 5-17-21	Received By: <i>Isaiah Pena</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 8:00 AM		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Isaiah Pena</i>	Date: 5-17-21	Received By: <i>Jamara Delgado</i>	REMARKS:	
	Time: 4:45 PM			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:	Cool Intact			
0.8c #113	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	J.P.		

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District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 38269

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 38269
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan approved with the following conditions for final closure report content; 1. Provide executive summary of work 2. Wetland & Karst maps 3. Topo map showing any well head protection areas within 1/2 mile from the release 4. Aerial map showing any significant watercourse within 1/2 mile of any horizontal boundary of the release 5. Clearly show horizontal delineation/confirmation samples for entire release perimeter 6. All confirmation samples must meet reclamation standards for 0-4 ft. below grade (chloride - 600 mg/kg, total TPH - 100 mg/kg, benzene - 10 mg/kg, total BTEX - 50 mg/kg) 7. Any/all field notes 8. Photos prior to backfilling showing; Title/Header, date/time of photo, orientation of photo (direction viewed), GIS data for any/all sample points, annotation or explanation to imagery content 9. Remedial activity documentation [e.g. confirmation sampling notification(s)] 10. Deadline to complete remediation and submit final report: 2/15/2023.	11/15/2022