



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/REMEDATION WORKPLAN

OXY – SOUTH HOBBS RMT INJ HEADER BLDG 5 (Leak Date: 5/10/21)

Incident ID: NAPP2113341851

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NAPP2113341851.

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 (BLUE shade on diagram) will require zero remediation. The leak area near SP2 (ORANGE shade on diagram) will be excavated to a depth of 4 feet. The leak area near SP3 – SP5 (GREEN shade on diagram) will be excavated to a depth of 1 foot.

OXY will collect bottom and sidewall confirmation samples every 200 square feet. The estimated amount of soil to be excavated is 515 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

Page 3

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2113341851
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?	19 (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.

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

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

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

Form C-141

Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2113341851
District RP	
Facility ID	
Application ID	

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

Printed Name: Wade Dittrich Title: Environmental CoordinatorSignature: Date: 6-16-21email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

Received by: _____

Date: _____

Form C-141

Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2113341851
District RP	
Facility ID	
Application ID	

Remediation Plan


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

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 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 OnlyReceived by: Chad Hensley Date: 08/30/2021☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature:  Date: 08/30/2021

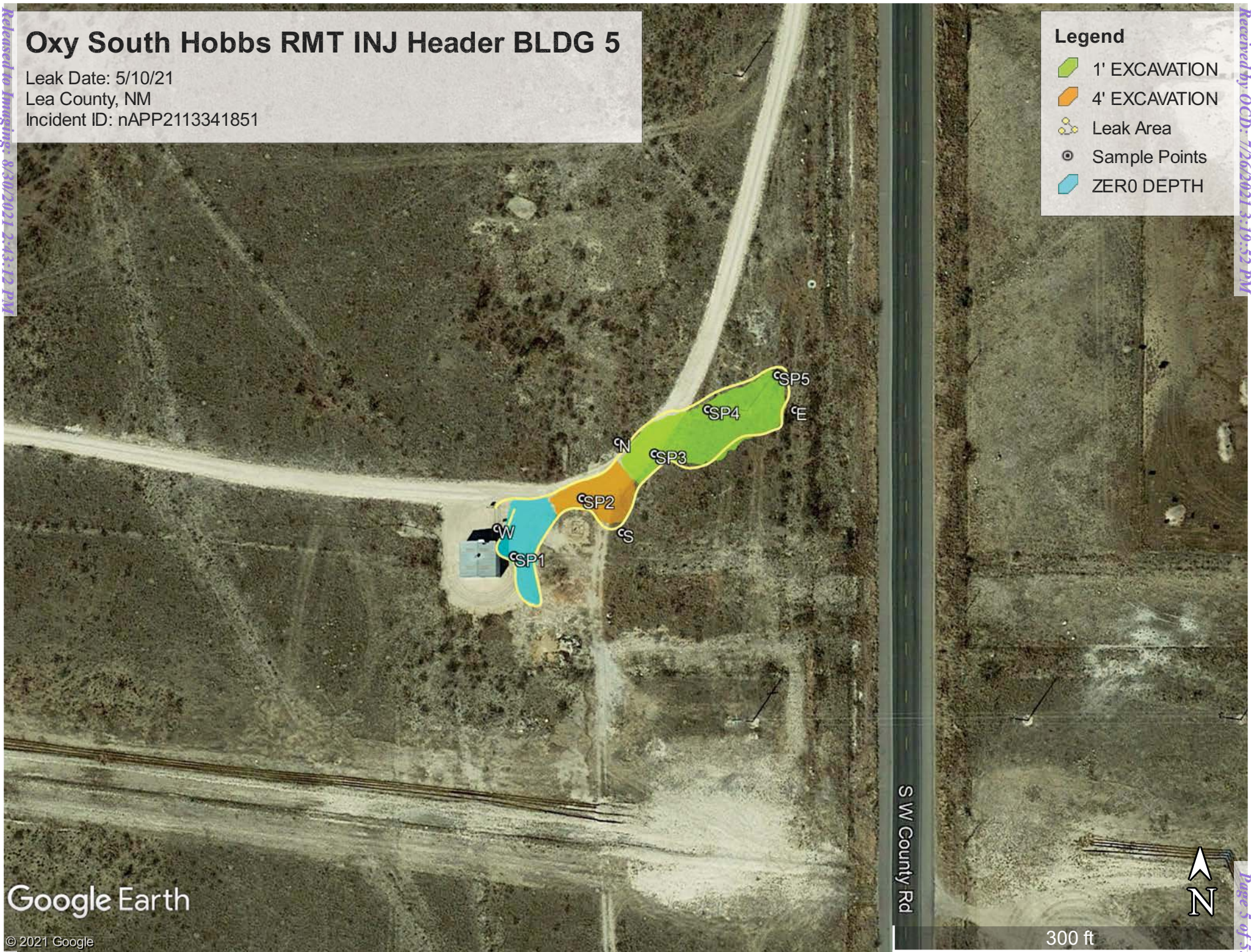
Oxy South Hobbs RMT INJ Header BLDG 5

Leak Date: 5/10/21
Lea County, NM
Incident ID: nAPP2113341851

Received by: OCD: 7/26/2021 3:19:52 PM

Legend

- 1' EXCAVATION
- 4' EXCAVATION
- Leak Area
- Sample Points
- ZERO DEPTH



OXY SOUTH HOBBS RMT INJECTION HEADER BLDG 5, SAMPLE POINTS

SP1	N 32.687755°	W-103.180446°
SP2	N 32.687890°	W-103.180257°
SP3	N 32.687993°	W-103.180057°
SP4	N 32.688097°	W-103.179910°
SP5	N 32.688176°	W-103.179716°
NORTH	N 32.688021°	W-103.180158°
EAST	N 32.688095°	W-103.179668°
SOUTH	N 32.687810°	W-103.180147°
WEST	N 32.687820°	W-103.180492°

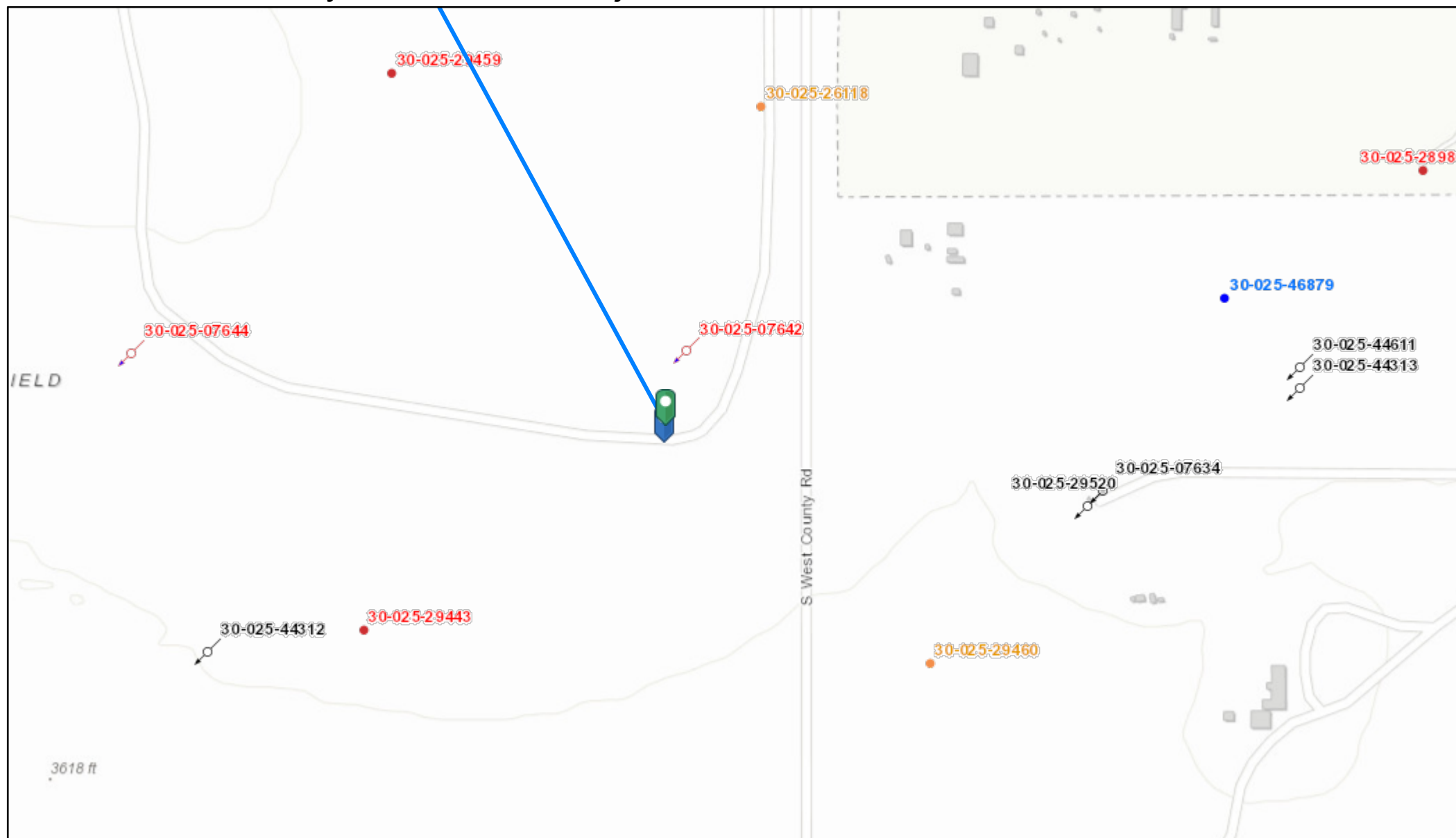
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1971-01-27		D	62610		3662.67	NGVD29	1	Z			A
1971-01-27		D	62611		3664.18	NAVD88	1	Z			A
1971-01-27		D	72019	23.82			1	Z			A
1976-01-30		D	62610		3666.96	NGVD29	1	Z			A
1976-01-30		D	62611		3668.47	NAVD88	1	Z			A
1976-01-30		D	72019	19.53			1	Z			A

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
Status	3	Above
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](#)
[Help](#)

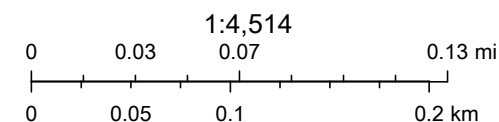
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

Oxy, S. Hobbs RMT Injection Header BLDG 5 - 1411 ft' H2O



6/28/2021, 4:10:44 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	




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


Oxy- South Hobbs RMT Inj. Header Bldg 5

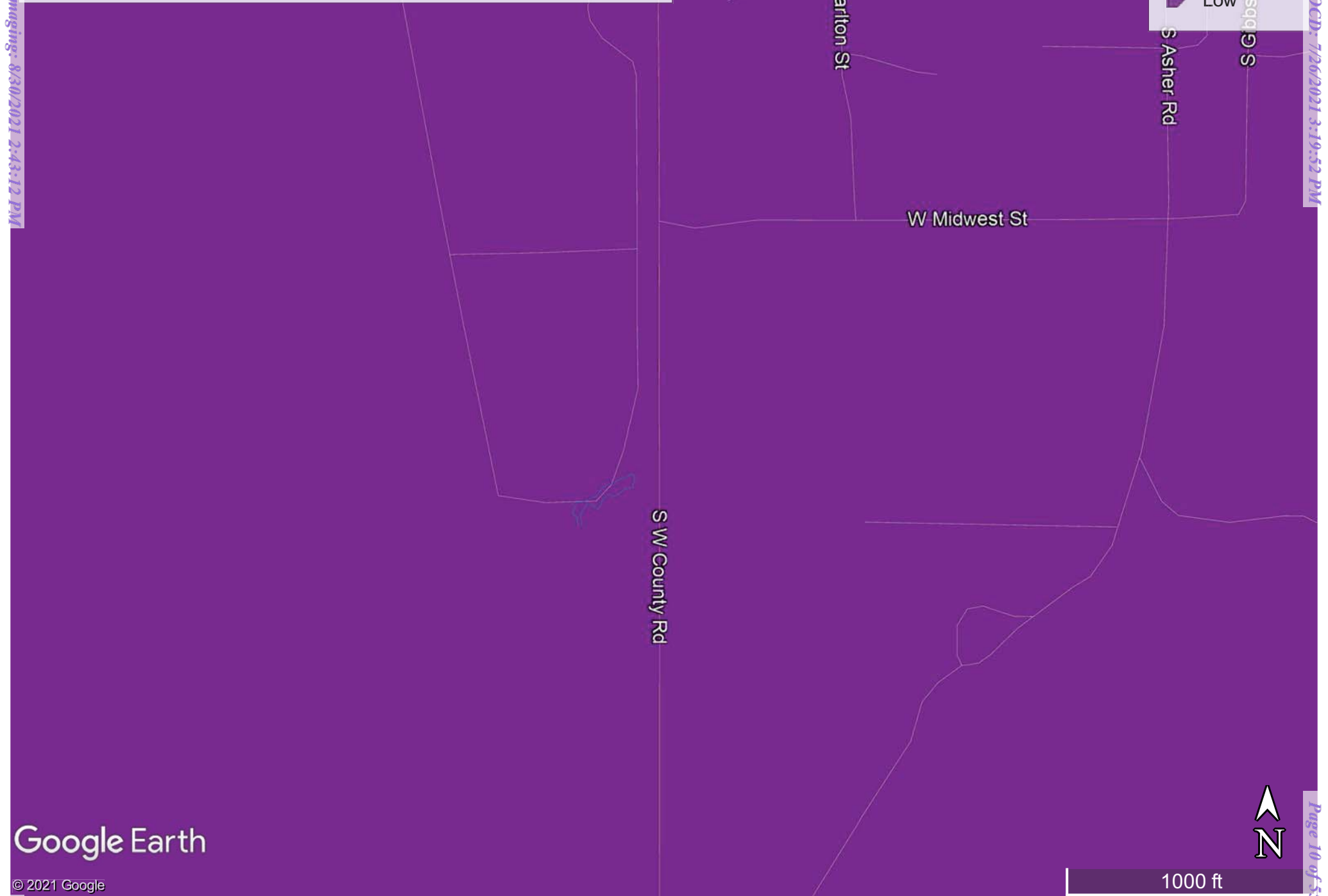
Leak Date: 5/10/21

BLM CAVE KARST MAP

Legend

 Leak Area

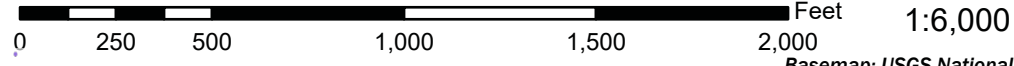
 Low



National Flood Hazard Layer FIRMette



103°6'48"W 32°41'31"N



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

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

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

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **5/13/2021 at 10:51 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Released to Imaging: 8/30/2021 2:43:12 PM

Received by OCD: 7/26/2021 3:19:52 PM

Laboratory Analytical Results Summary
Oxy, SOUTH HOBBS RMT INJ HEADER BLDG 5
(5-10-21)

		Sample ID	SP N @ SURFACE	SP E @ SURFACE	SP W @ SURFACE	SP S @ SURFACE
Analyte	Method	Date	5/24/21	5/24/21	5/24/21	5/24/21
			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'	SP 1 @ 3'	SP 1 @ 4'
Analyte	Method	Date	5/24/21	5/24/21	5/24/21	5/24/21	5/24/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A
Toluene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A
Ethylbenzene	BTEX 8021B		<0.050	<0.050	N/A	N/A	N/A
Total Xylenes	BTEX 8021B		<0.150	<0.150	N/A	N/A	N/A
Total BTEX	BTEX 8021B		<0.300	<0.300	N/A	N/A	N/A
Chloride	SM4500Cl-B		112.0	512.0	384.0	176.0	112.0
GRO	TPH 8015M		<10.0	<10.0	N/A	N/A	N/A
DRO	TPH 8015M		<10.0	<10.0	N/A	N/A	N/A
EXT DRO	TPH 8015M		<10.0	<10.0	N/A	N/A	N/A

		Sample ID	SP 2 @ SURFACE	SP 2 @ 1'	SP 2 @ 2'	SP 2 @ 3'	SP 2 @ 4'
Analyte	Method	Date	5/24/21	5/24/21	5/24/21	5/24/21	6/7/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1230.0	320.0	480.0	304.0	304.0
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		8070	158	<10.0	153	<10.0
EXT DRO	TPH 8015M		1880	178	<10.0	64.7	<10.0

		Sample ID	SP 3 @ SURFACE	SP 3 @ 1'	SP 3 @ 2'
Analyte	Method	Date	5/24/21	5/24/21	5/24/21
			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		2840.0	448.0	208.0
GRO	TPH 8015M		<50.0	<10.0	N/A
DRO	TPH 8015M		9980	<10.0	N/A
EXT DRO	TPH 8015M		2240	<10.0	N/A

Laboratory Analytical Results Summary
Oxy, SOUTH HOBBS RMT INJ HEADER BLDG 5
(5-10-21)

		Sample ID	SP 4@ SURFACE	SP 4@ 1'	SP 4@ 2'	SP 4 @ 3'
Analyte	Method	Date	5/24/21	5/24/21	5/24/21	5/25/21
			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		1200.0	528.0	368.0	288.0
GRO	TPH 8015M		<50.0	<10.0	N/A	N/A
DRO	TPH 8015M		8690	<10.0	N/A	N/A
EXT DRO	TPH 8015M		1870	<10.0	N/A	N/A

		Sample ID	SP 5@ SURFACE	SP 5@ 1'	SP 5@ 2'	SP5 @ 3'
Analyte	Method	Date	5/25/21	5/25/21	5/25/21	5/25/21
			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		960.0	432.0	256.0	288.0
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

June 01, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SOUTH HOBBS RMT INJ HEADER BLDG 5

Enclosed are the results of analyses for samples received by the laboratory on 05/25/21 16:25.

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".

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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP N @ SURFACE	H211344-01	Soil	24-May-21 08:25	25-May-21 16:25
SP E @ SURFACE	H211344-02	Soil	24-May-21 08:38	25-May-21 16:25
SP W @ SURFACE	H211344-03	Soil	24-May-21 08:53	25-May-21 16:25
SP S @ SURFACE	H211344-04	Soil	24-May-21 09:07	25-May-21 16:25
SP 1 @ SURFACE	H211344-05	Soil	24-May-21 09:25	25-May-21 16:25
SP 1 @ 1'	H211344-06	Soil	24-May-21 10:08	25-May-21 16:25
SP 1 @ 2'	H211344-07	Soil	24-May-21 10:25	25-May-21 16:25
SP 1 @ 3'	H211344-08	Soil	24-May-21 10:53	25-May-21 16:25
SP 1 @ 4'	H211344-09	Soil	24-May-21 11:24	25-May-21 16:25
SP 2 @ SURFACE	H211344-10	Soil	24-May-21 11:48	25-May-21 16:25
SP 2 @ 1'	H211344-11	Soil	24-May-21 12:49	25-May-21 16:25
SP 2 @ 2'	H211344-12	Soil	24-May-21 13:22	25-May-21 16:25
SP 2 @ 3'	H211344-13	Soil	24-May-21 13:52	25-May-21 16:25
SP 3 @ SURFACE	H211344-14	Soil	24-May-21 14:15	25-May-21 16:25
SP 3 @ 1'	H211344-15	Soil	24-May-21 14:38	25-May-21 16:25
SP 3 @ 2'	H211344-16	Soil	24-May-21 15:07	25-May-21 16:25
SP 4 @ SURFACE	H211344-17	Soil	24-May-21 15:20	25-May-21 16:25
SP 4 @ 1'	H211344-18	Soil	24-May-21 15:42	25-May-21 16:25
SP 4 @ 2'	H211344-19	Soil	24-May-21 16:09	25-May-21 16:25
SP 4 @ 3'	H211344-20	Soil	25-May-21 08:25	25-May-21 16:25
SP 5 @ SURFACE	H211344-21	Soil	25-May-21 08:44	25-May-21 16:25
SP 5 @ 1'	H211344-22	Soil	25-May-21 09:10	25-May-21 16:25
SP 5 @ 2'	H211344-23	Soil	25-May-21 09:23	25-May-21 16:25
SP 5 @ 3'	H211344-24	Soil	25-May-21 09:47	25-May-21 16:25

06/01/21 - Client added BTEX and TPH to samples -12 and -13. This is the revised report and will replace the one sent on 05/28/21.

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP N @ SURFACE
H211344-01 (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	1052608	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052604	MS	26-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052604	MS	26-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140 1052604 MS 26-May-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	

Surrogate: 1-Chlorooctane 100 % 44.3-133 1052602 MS 27-May-21 8015B

Surrogate: 1-Chlorooctadecane 100 % 38.9-142 1052602 MS 27-May-21 8015B

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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SPE @ SURFACE**H211344-02 (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	1052608	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052604	MS	26-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052604	MS	26-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		69.9-140	1052604	MS	26-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	

Surrogate: 1-Chlorooctane			92.3 %		44.3-133	1052602	MS	27-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			91.0 %		38.9-142	1052602	MS	27-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP W @ SURFACE**H211344-03 (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	1052608	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052604	MS	26-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052604	MS	26-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %		69.9-140	1052604	MS	26-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	

Surrogate: 1-Chlorooctane			98.6 %		44.3-133	1052602	MS	27-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			99.5 %		38.9-142	1052602	MS	27-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SPS @ SURFACE**H211344-04 (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	1052608	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052604	MS	26-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052604	MS	26-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		1052604	MS	26-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052602	MS	27-May-21	8015B	

Surrogate: 1-Chlorooctane			97.0 %	44.3-133		1052602	MS	27-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			97.9 %	38.9-142		1052602	MS	27-May-21	8015B	
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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 1 @ SURFACE**H211344-05 (Soil)**

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

Chloride	112		16.0	mg/kg	4	1052608	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B
Toluene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	1052604	MS	26-May-21	8021B
Total BTEX	<0.300	0.300	mg/kg	50	1052604	MS	26-May-21	8021B

Surrogate: 4-Bromofluorobenzene (PID)	105 %	69.9-140	1052604	MS	26-May-21	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1052603	MS	26-May-21	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1052603	MS	26-May-21	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1052603	MS	26-May-21	8015B

Surrogate: 1-Chlorooctane	92.0 %	44.3-133	1052603	MS	26-May-21	8015B
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Surrogate: 1-Chlorooctadecane	96.1 %	38.9-142	1052603	MS	26-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 1 @ 1'
H211344-06 (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	1052608	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1052604	MS	26-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1052604	MS	26-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	69.9-140	1052604	MS	26-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1052603	MS	26-May-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1052603	MS	26-May-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1052603	MS	26-May-21	8015B	

Surrogate: 1-Chlorooctane	92.8 %	44.3-133	1052603	MS	26-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	95.8 %	38.9-142	1052603	MS	26-May-21	8015B	
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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 1 @ 2'
H211344-07 (Soil)

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

Chloride	384		16.0	mg/kg	4	1052608	GM	26-May-21	4500-Cl-B	
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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 1 @ 3'
H211344-08 (Soil)

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

Chloride	176		16.0	mg/kg	4	1052611	GM	26-May-21	4500-Cl-B	
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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 1 @ 4'
H211344-09 (Soil)

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

Chloride	112		16.0	mg/kg	4	1052611	GM	26-May-21	4500-Cl-B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 2 @ SURFACE**H211344-10 (Soil)**

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

Chloride	1230		16.0	mg/kg	4	1052611	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052604	MS	28-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052604	MS	28-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052604	MS	28-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052604	MS	28-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052604	MS	28-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140 1052604 MS 28-May-21 8021B

Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	1052603	MS	26-May-21	8015B	
DRO >C10-C28*	8070		50.0	mg/kg	5	1052603	MS	26-May-21	8015B	
EXT DRO >C28-C36	1880		50.0	mg/kg	5	1052603	MS	26-May-21	8015B	

Surrogate: 1-Chlorooctane 95.4 % 44.3-133 1052603 MS 26-May-21 8015B

Surrogate: 1-Chlorooctadecane 385 % 38.9-142 1052603 MS 26-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 2 @ 1'
H211344-11 (Soil)

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

Chloride	320		16.0	mg/kg	4	1052611	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1052604	MS	26-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1052604	MS	26-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	69.9-140	1052604	MS	26-May-21	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1052603	MS	26-May-21	8015B
DRO >C10-C28*	158	10.0	mg/kg	1	1052603	MS	26-May-21	8015B
EXT DRO >C28-C36	178	10.0	mg/kg	1	1052603	MS	26-May-21	8015B

Surrogate: 1-Chlorooctane	89.7 %	44.3-133	1052603	MS	26-May-21	8015B
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Surrogate: 1-Chlorooctadecane	101 %	38.9-142	1052603	MS	26-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 2 @ 2'
H211344-12 (Soil)

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

Chloride	480		16.0	mg/kg	4	1052611	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1052814	MS	28-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1052814	MS	28-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1052814	MS	28-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1052814	MS	28-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1052814	MS	28-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>111 %</i>	<i>69.9-140</i>	<i>1052814</i>	<i>MS</i>	<i>28-May-21</i>	<i>8021B</i>			
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1052813	MS	29-May-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1052813	MS	29-May-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1052813	MS	29-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>	<i>73.0 %</i>	<i>44.3-133</i>	<i>1052813</i>	<i>MS</i>	<i>29-May-21</i>	<i>8015B</i>			
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<i>Surrogate: 1-Chlorooctadecane</i>	<i>73.1 %</i>	<i>38.9-142</i>	<i>1052813</i>	<i>MS</i>	<i>29-May-21</i>	<i>8015B</i>			
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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 2 @ 3'
H211344-13 (Soil)

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

Chloride	304		16.0	mg/kg	4	1052611	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052814	MS	28-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052814	MS	28-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052814	MS	28-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052814	MS	28-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052814	MS	28-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		69.9-140	1052814	MS	28-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052813	MS	29-May-21	8015B	
DRO >C10-C28*	153		10.0	mg/kg	1	1052813	MS	29-May-21	8015B	
EXT DRO >C28-C36	64.7		10.0	mg/kg	1	1052813	MS	29-May-21	8015B	

Surrogate: 1-Chlorooctane			83.3 %		44.3-133	1052813	MS	29-May-21	8015B	
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Surrogate: 1-Chlorooctadecane			78.3 %		38.9-142	1052813	MS	29-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 3 @ SURFACE**H211344-14 (Soil)**

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

Chloride	2840		16.0	mg/kg	4	1052611	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052604	MS	26-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052604	MS	26-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		113 %		69.9-140		1052604	MS	26-May-21	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	1052603	MS	26-May-21	8015B	
DRO >C10-C28*	9980		50.0	mg/kg	5	1052603	MS	26-May-21	8015B	
EXT DRO >C28-C36	2240		50.0	mg/kg	5	1052603	MS	26-May-21	8015B	

Surrogate: 1-Chlorooctane		90.9 %		44.3-133		1052603	MS	26-May-21	8015B	
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Surrogate: 1-Chlorooctadecane		424 %		38.9-142		1052603	MS	26-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 3 @ 1'
H211344-15 (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	1052611	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1052604	MS	26-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1052604	MS	26-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1052604	MS	26-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	99.4 %	69.9-140	1052604	MS	26-May-21	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1052603	MS	26-May-21	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1052603	MS	26-May-21	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1052603	MS	26-May-21	8015B

Surrogate: 1-Chlorooctane	95.3 %	44.3-133	1052603	MS	26-May-21	8015B
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Surrogate: 1-Chlorooctadecane	99.7 %	38.9-142	1052603	MS	26-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 3 @ 2'
H211344-16 (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	1052611	GM	26-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 4 @ SURFACE**H211344-17 (Soil)**

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

Chloride	1200		16.0	mg/kg	4	1052611	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1052604	MS	27-May-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1052604	MS	27-May-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1052604	MS	27-May-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1052604	MS	27-May-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1052604	MS	27-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	103 %	69.9-140	1052604	MS	27-May-21	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<50.0	50.0	mg/kg	5	1052603	MS	26-May-21	8015B	
DRO >C10-C28*	8690	50.0	mg/kg	5	1052603	MS	26-May-21	8015B	
EXT DRO >C28-C36	1870	50.0	mg/kg	5	1052603	MS	26-May-21	8015B	

Surrogate: 1-Chlorooctane	103 %	44.3-133	1052603	MS	26-May-21	8015B	
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Surrogate: 1-Chlorooctadecane	382 %	38.9-142	1052603	MS	26-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 4 @ 1'
H211344-18 (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	1052611	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052609	MS	26-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052609	MS	26-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052609	MS	26-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052609	MS	26-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052609	MS	26-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %		69.9-140	1052609	MS	26-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052603	MS	26-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052603	MS	26-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052603	MS	26-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.6 %		44.3-133	1052603	MS	26-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.5 %		38.9-142	1052603	MS	26-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 4 @ 2'
H211344-19 (Soil)

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

Chloride	368		16.0	mg/kg	4	1052611	GM	26-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 4 @ 3'
H211344-20 (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	1052611	GM	26-May-21	4500-Cl-B	
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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 5 @ SURFACE**H211344-21 (Soil)**

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

Chloride	960		16.0	mg/kg	4	1052611	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052609	MS	26-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052609	MS	26-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052609	MS	26-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052609	MS	26-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052609	MS	26-May-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140 1052609 MS 26-May-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052603	MS	26-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052603	MS	26-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052603	MS	26-May-21	8015B	

Surrogate: 1-Chlorooctane 99.1 % 44.3-133 1052603 MS 26-May-21 8015B

Surrogate: 1-Chlorooctadecane 104 % 38.9-142 1052603 MS 26-May-21 8015B

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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 5 @ 1'
H211344-22 (Soil)

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

Chloride	432		16.0	mg/kg	4	1052611	GM	26-May-21	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1052609	MS	26-May-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1052609	MS	26-May-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1052609	MS	26-May-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1052609	MS	26-May-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1052609	MS	26-May-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %		69.9-140	1052609	MS	26-May-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1052603	MS	26-May-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1052603	MS	26-May-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1052603	MS	26-May-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			93.4 %		44.3-133	1052603	MS	26-May-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.8 %		38.9-142	1052603	MS	26-May-21	8015B	
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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 5 @ 2'
H211344-23 (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	1052611	GM	26-May-21	4500-Cl-B	
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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

SP 5 @ 3'
H211344-24 (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	1052611	GM	26-May-21	4500-Cl-B	
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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1052608 - 1:4 DI Water**Blank (1052608-BLK1)**

Prepared & Analyzed: 26-May-21

Chloride	ND	16.0	mg/kg						
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LCS (1052608-BS1)

Prepared & Analyzed: 26-May-21

Chloride	400	16.0	mg/kg	400	100	80-120			
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LCS Dup (1052608-BSD1)

Prepared & Analyzed: 26-May-21

Chloride	400	16.0	mg/kg	400	100	80-120	0.00	20	
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Batch 1052611 - 1:4 DI Water**Blank (1052611-BLK1)**

Prepared & Analyzed: 26-May-21

Chloride	ND	16.0	mg/kg						
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LCS (1052611-BS1)

Prepared & Analyzed: 26-May-21

Chloride	400	16.0	mg/kg	400	100	80-120			
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LCS Dup (1052611-BSD1)

Prepared & Analyzed: 26-May-21

Chloride	432	16.0	mg/kg	400	108	80-120	7.69	20	
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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

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 1052604 - Volatiles**Blank (1052604-BLK1)**

Prepared & Analyzed: 26-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)	0.0554		mg/kg	0.0500		111	69.9-140			

LCS (1052604-BS1)

Prepared & Analyzed: 26-May-21

Benzene	1.97	0.050	mg/kg	2.00		98.7	89.9-120			
Toluene	2.03	0.050	mg/kg	2.00		102	90.8-117			
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.0	88.9-116			
m,p-Xylene	3.94	0.100	mg/kg	4.00		98.5	85.5-118			
o-Xylene	1.96	0.050	mg/kg	2.00		97.8	85.5-118			
Total Xylenes	5.89	0.150	mg/kg	6.00		98.2	85.5-118			
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	69.9-140			

LCS Dup (1052604-BSD1)

Prepared & Analyzed: 26-May-21

Benzene	2.15	0.050	mg/kg	2.00		107	89.9-120	8.38	10.3	
Toluene	2.27	0.050	mg/kg	2.00		114	90.8-117	11.3	10.5	QR-04
Ethylbenzene	2.25	0.050	mg/kg	2.00		113	88.9-116	12.9	10.8	QR-04
m,p-Xylene	4.47	0.100	mg/kg	4.00		112	85.5-118	12.7	10.7	QR-04
o-Xylene	2.14	0.050	mg/kg	2.00		107	85.5-118	8.97	10.7	
Total Xylenes	6.61	0.150	mg/kg	6.00		110	85.5-118	11.5	10.7	QR-04
Surrogate: 4-Bromofluorobenzene (PID)	0.0549		mg/kg	0.0500		110	69.9-140			

Batch 1052609 - Volatiles**Blank (1052609-BLK1)**

Prepared & Analyzed: 26-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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

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 1052609 - Volatiles**Blank (1052609-BLK1)**

Prepared & Analyzed: 26-May-21

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0548		mg/kg	0.0500		110	69.9-140			

LCS (1052609-BS1)

Prepared & Analyzed: 26-May-21

Benzene	1.99	0.050	mg/kg	2.00		99.5	89.9-120			
Toluene	1.95	0.050	mg/kg	2.00		97.6	90.8-117			
Ethylbenzene	1.86	0.050	mg/kg	2.00		92.8	88.9-116			
m,p-Xylene	3.72	0.100	mg/kg	4.00		93.0	85.5-118			
o-Xylene	1.88	0.050	mg/kg	2.00		93.9	85.5-118			
Total Xylenes	5.60	0.150	mg/kg	6.00		93.3	85.5-118			
Surrogate: 4-Bromofluorobenzene (PID)	0.0532		mg/kg	0.0500		106	69.9-140			

LCS Dup (1052609-BS1)

Prepared & Analyzed: 26-May-21

Benzene	2.16	0.050	mg/kg	2.00		108	89.9-120	8.02	10.3	
Toluene	2.11	0.050	mg/kg	2.00		105	90.8-117	7.52	10.5	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	88.9-116	8.58	10.8	
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	85.5-118	8.25	10.7	
o-Xylene	2.06	0.050	mg/kg	2.00		103	85.5-118	9.24	10.7	
Total Xylenes	6.10	0.150	mg/kg	6.00		102	85.5-118	8.58	10.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	69.9-140			

Batch 1052814 - Volatiles**Blank (1052814-BLK1)**

Prepared & Analyzed: 28-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)	0.0560		mg/kg	0.0500		112	69.9-140			

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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

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 1052814 - Volatiles**LCS (1052814-BS1)**

Prepared & Analyzed: 28-May-21

Benzene	2.00	0.050	mg/kg	2.00		99.9	89.9-120			
Toluene	1.95	0.050	mg/kg	2.00		97.5	90.8-117			
Ethylbenzene	1.88	0.050	mg/kg	2.00		94.2	88.9-116			
m,p-Xylene	3.79	0.100	mg/kg	4.00		94.6	85.5-118			
o-Xylene	1.93	0.050	mg/kg	2.00		96.3	85.5-118			
Total Xylenes	5.70	0.150	mg/kg	6.00		94.9	85.5-118			
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	69.9-140			

LCS Dup (1052814-BSD1)

Prepared & Analyzed: 28-May-21

Benzene	2.12	0.050	mg/kg	2.00		106	89.9-120	5.79	10.3	
Toluene	2.06	0.050	mg/kg	2.00		103	90.8-117	5.63	10.5	
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	88.9-116	12.9	10.8	QR-04
m,p-Xylene	4.26	0.100	mg/kg	4.00		107	85.5-118	11.8	10.7	QR-04
o-Xylene	2.04	0.050	mg/kg	2.00		102	85.5-118	5.54	10.7	
Total Xylenes	6.03	0.150	mg/kg	6.00		100	85.5-118	5.67	10.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0550		mg/kg	0.0500		110	69.9-140			

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Analytical Results For:

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

Project: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1052602 - General Prep - Organics**Blank (1052602-BLK1)**

Prepared & Analyzed: 26-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	54.2		mg/kg	50.0		108	44.3-133			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	38.9-142			

LCS (1052602-BS1)

Prepared & Analyzed: 26-May-21

GRO C6-C10	201	10.0	mg/kg	200		101	83.4-129			
DRO >C10-C28	218	10.0	mg/kg	200		109	84.3-133			
Total TPH C6-C28	420	10.0	mg/kg	400		105	85.3-130			
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	44.3-133			
Surrogate: 1-Chlorooctadecane	55.8		mg/kg	50.0		112	38.9-142			

LCS Dup (1052602-BS1)

Prepared & Analyzed: 26-May-21

GRO C6-C10	201	10.0	mg/kg	200		100	83.4-129	0.343	12.6	
DRO >C10-C28	194	10.0	mg/kg	200		97.1	84.3-133	11.7	12.1	
Total TPH C6-C28	395	10.0	mg/kg	400		98.7	85.3-130	6.08	11.6	
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	44.3-133			
Surrogate: 1-Chlorooctadecane	56.1		mg/kg	50.0		112	38.9-142			

Batch 1052603 - General Prep - Organics**Blank (1052603-BLK1)**

Prepared & Analyzed: 26-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	52.1		mg/kg	50.0		104	44.3-133			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	38.9-142			

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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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1052603 - General Prep - Organics**LCS (1052603-BS1)**

Prepared & Analyzed: 26-May-21

GRO C6-C10	200	10.0	mg/kg	200	100	83.4-129			
DRO >C10-C28	206	10.0	mg/kg	200	103	84.3-133			
Total TPH C6-C28	406	10.0	mg/kg	400	102	85.3-130			
Surrogate: 1-Chlorooctane	53.4		mg/kg	50.0	107	44.3-133			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0	113	38.9-142			

LCS Dup (1052603-BS1)

Prepared & Analyzed: 26-May-21

GRO C6-C10	201	10.0	mg/kg	200	100	83.4-129	0.455	12.6	
DRO >C10-C28	208	10.0	mg/kg	200	104	84.3-133	0.895	12.1	
Total TPH C6-C28	409	10.0	mg/kg	400	102	85.3-130	0.678	11.6	
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0	108	44.3-133			
Surrogate: 1-Chlorooctadecane	56.8		mg/kg	50.0	114	38.9-142			

Batch 1052813 - General Prep - Organics**Blank (1052813-BLK1)**

Prepared: 28-May-21 Analyzed: 29-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	56.3		mg/kg	50.0	113	44.3-133			
Surrogate: 1-Chlorooctadecane	57.8		mg/kg	50.0	116	38.9-142			

LCS (1052813-BS1)

Prepared: 28-May-21 Analyzed: 29-May-21

GRO C6-C10	215	10.0	mg/kg	200	107	83.4-129			
DRO >C10-C28	231	10.0	mg/kg	200	116	84.3-133			
Total TPH C6-C28	446	10.0	mg/kg	400	112	85.3-130			
Surrogate: 1-Chlorooctane	58.8		mg/kg	50.0	118	44.3-133			
Surrogate: 1-Chlorooctadecane	59.4		mg/kg	50.0	119	38.9-142			

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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: SOUTH HOBBS RMT INJ HEADER E
Project Number: (5-10-21)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
01-Jun-21 11:34

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 1052813 - General Prep - Organics**LCS Dup (1052813-BSD1)**

Prepared: 28-May-21 Analyzed: 29-May-21

GRO C6-C10	210	10.0	mg/kg	200		105	83.4-129	2.12	12.6	
DRO >C10-C28	222	10.0	mg/kg	200		111	84.3-133	4.31	12.1	
Total TPH C6-C28	432	10.0	mg/kg	400		108	85.3-130	3.25	11.6	
Surrogate: 1-Chlorooctane	58.2		mg/kg	50.0		116	44.3-133			
Surrogate: 1-Chlorooctadecane	58.3		mg/kg	50.0		117	38.9-142			

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-04	The RPD for the BS/BSD was outside of historical limits.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(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		Address:	
State: NM Zip: 88241		City:	
Phone #: 575-397-6388 Fax #: 575-397-0397		State: Zip:	
Project #:		Project Owner: Oxy	
Project Name: South Hobbs RMT INJ Header BLDG 5(5-10-21)		Phone #:	
Project Location:		Fax #:	
Sampler Name: SIMON RENDON		DATE	
FOR LAB USE ONLY		TIME	
Lab I.D.		CL	
Sample I.D.		BTEX	
SP N @ SURFACE		TPH EXT	
SP E @ SURFACE			
SP W @ SURFACE			
SP S @ SURFACE			
SP 1 @ SURFACE			
SP 1 @ 1'			
SP 1 @ 2'			
SP 1 @ 3'			
SP 1 @ 4'			
SP 2 @ SURFACE			
DATE		TIME	
5/24/21		8:25	
5/24/21		8:38	
5/24/21		8:53	
5/24/21		9:07	
5/24/21		9:25	
5/24/21		10:08	
5/24/21		10:25	
5/24/21		10:53	
5/24/21		11:24	
5/24/21		11:48	
Relinquished By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By:		REMARKS:	
Delivered By: (Circle One)		Sample Condition	
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
-4.6c #113		Yes <input type="checkbox"/> No <input type="checkbox"/>	
CHECKED BY: (Initials)		V.O.	

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



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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						Attn: WADE											
Phone #: 575-397-6388						Address:											
State: NM Zip: 88241						City:											
Fax #: 575-397-0397						State:											
Project #: Project Owner: Oxy						Zip:											
Project Name: South Hobbs RMT INJ Header BLDG 5(5-10-21)						Phone #:											
Project Location:						Fax #:											
Sampler Name: SIMON RENDON						FOR LAB USE ONLY											
Lab I.D.						Sample I.D.											
H211344						(G)RAB OR (C)OMP.											
11 SP 2 @ 1'						# CONTAINERS											
12 SP 2 @ 2'						GROUNDWATER											
13 SP 2 @ 3'						WASTEWATER											
14 SP 3 @ SURFACE						SOIL											
15 SP 3 @ 1'						OIL											
16 SP 3 @ 2'						SLUDGE											
17 SP 4 @ SURFACE						OTHER :											
18 SP 4 @ 1'						ACID/BASE:											
19 SP 4 @ 2'						ICE / COOL											
20 SP 4 @ 3'						OTHER :											
DATE TIME						CL											
5/24/21 12:49						BTEX											
5/24/21 1:22						TPH EXT											
5/24/21 1:52																	
5/24/21 2:15																	
5/24/21 2:39																	
5/24/21 3:07																	
5/24/21 3:20																	
5/24/21 3:42																	
5/24/21 4:09																	
5/25/21 8:25																	
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Relinquished By: [Signature]						Received By: [Signature]											
Date: 5-25-21						Time: 10:25											
Relinquished By: [Signature]						Received By: [Signature]											
Delivered By: (Circle One)						Sample Condition											
Cool Intact						Checked BY: [Signature]											
Yes Yes						No No											
No No						Add'l Phone #: [Blank]											
No No						Add'l Fax #: [Blank]											
Remarks: -4.66 #115																	



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

June 09, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SOUTH HOBBS RMT INJ HEADER BLDG 5

Enclosed are the results of analyses for samples received by the laboratory on 06/07/21 16:10.

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/07/2021	Sampling Date:	06/07/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	SOUTH HOBBS RMT INJ HEADER BLDG 5	Sampling Condition:	Cool & Intact
Project Number:	(5-10-21)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - HOBBS, NM		

Sample ID: SP 2 @ 4' (H211453-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/08/2021	ND	1.97	98.6	2.00	0.640	
Toluene*	<0.050	0.050	06/08/2021	ND	2.09	105	2.00	0.110	
Ethylbenzene*	<0.050	0.050	06/08/2021	ND	2.06	103	2.00	0.250	
Total Xylenes*	<0.150	0.150	06/08/2021	ND	6.20	103	6.00	0.637	
Total BTX	<0.300	0.300	06/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/08/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/08/2021	ND	193	96.4	200	2.27	
DRO >C10-C28*	<10.0	10.0	06/08/2021	ND	193	96.6	200	4.70	
EXT DRO >C28-C36	<10.0	10.0	06/08/2021	ND					

Surrogate: 1-Chlorooctane 74.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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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 38242

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 38242
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	8/30/2021