

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 - RED TANK 30 31 34H (Leak Date: 8/22/19)

RP # 1RP-5713

This delineation workplan and remediation proposal addresses the releases associated with RP # 1RP-5713.

The following information includes:

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

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

OXY will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 1 foot.

Bottom and confirmation samples will be collected every 75 feet.

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

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

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID		
District RP	1RP-5713	
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?	391(ft bgs)						
Did this release impact groundwater or surface water?	☐ Yes ■ No						
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ■ 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)?	☐ Yes ■ No						
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?							
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?							
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?							
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?							
Are the lateral extents of the release within 300 feet of a wetland?							
Are the lateral extents of the release overlying a subsurface mine?							
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ■ No						
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ■ No						
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ■ No						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil						
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 well Field data	ls.						
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							
in parotatory 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		_
District RP	1RP-5713	
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the 6 failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Wade Dittrich	Title: Environmental Coordinator
Signature:	Date: 10-14-17
email: wade_dittrich@oxy.com	Telephone: (575) 390-2828
OCD Only	
Received by:	Date:

Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID		
District RP	1RP-5713	
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	2(C)(4) NMAC							
Proposed schedule for remediation (note if remediation plan time	line is more than 90 days OCD approval is required)							
Deferral Dequests Only Fach of the following items much be cont	Samuel as most of any new set for 1-f1 of any 100							
Deferral Requests Only: Each of the following items must be conf	irmea as part of any request for deferral of remediation.							
Contamination must be in areas immediately under or around prodeconstruction.	duction equipment where remediation could cause a major facility							
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: July July	Date: 10-14-19							
email: wade_dittrich@oxy.com	Telephone: (575) 390-2828							
email	Telephone:							
OCD Only								
Received by:	Date:							
Approved Approved with Attached Conditions of A	pproval Denied Deferral Approved							
Signature:	Date:							



Oxy, Red Tank 30 31 34H

Sample points

SP1, N 32.36958 W-103.60458

SP2, N 32.36971 W-103.60466

SP3, N 32.36981 W-103.60471

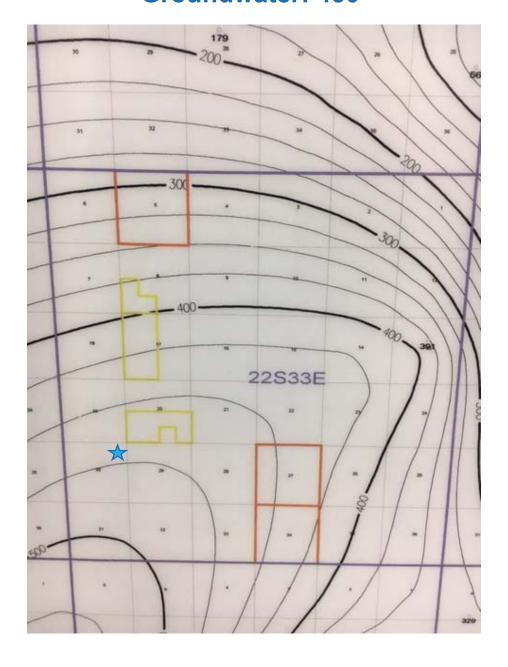
NORTH, N 32.36989 W-103.60471

SOUTH, N 32.36956 W-103.60459

EAST, N 32.36957 W-103.60453

WEST, N 32.36975 W-103.60475

Oxy, Red Tank 30 31 34H U/L A, Section 30, T22S, R33E Groundwater: 450'





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 ✓

 New Mexico
 ✓

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 322325103313301

Minimum number of levels = 1

Table of data

Save file of selected sites to local disk for future upload

USGS 322325103313301 22S.33E.13.23131

Lea County, New Mexico Latitude 32°23'38.6", Longitude 103°31'33.6" NAD83 Land-surface elevation 3,519 feet above NAVD88 The depth of the well is 508 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Tab-separat	ed data									
Graph of data										
Reselect per	riod									
Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measureme
1968-06-10)	D	387.08				2 9	S U		
1970-12-04	1	D	385.19			2	2 9	S U		
1972-09-21	L	D	388.35				2	U		
1976-12-16	5	D	388.60			2	2	U		
1981-03-10)	D	389.83				2	U		
1986-04-10)	D	383.14			2	2	U		
1991-05-03	3	D	390.28				2 [U		
1996-02-20)	D	391.13			2	2	S		

Explanation					
Section	Code	Description			
Water-level date-time accuracy	D	Date is accurate to the Day			
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot			
Status		The reported water-level measurement represents a static level			
Status	P	Site was being pumped.			
Status	S	Nearby site that taps the same aquifer was being pumped.			
Method of measurement	S	Steel-tape measurement.			



Questions about sites/data? Feedback on this web site <u>Automated retrievals</u> Help Data Tips Explanation of terms

Subscribe for system changes

Accessibility Plug-Ins FOIA Policies and Notices

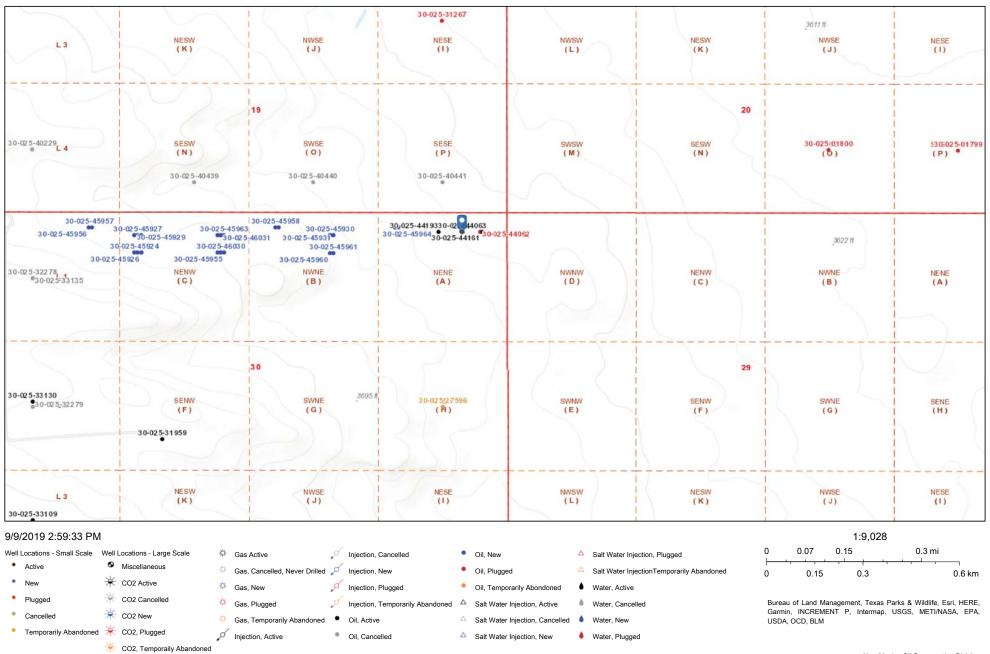
U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels

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

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2019-09-09 17:10:39 EDT

0.45 0.43 nadww02

Red Tank 30 31 34H



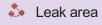
New Mexico Oil Conservation Division NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/: New Mexico Oil Conservation Division

Oxy, Red Tank 30 31 34H

Leak date: 8/22/19 Lea County, NM

BLM CAVE KARST MAP

Legend



Low potential



Google Earth

600 ft

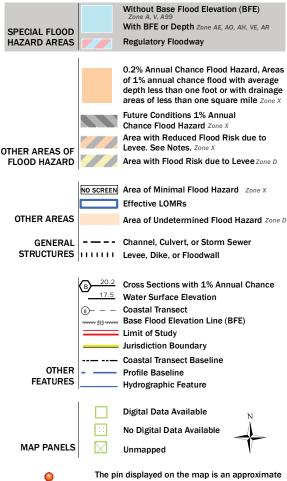
National Flood Hazard Layer FIRMette



Legend

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

Page 12 of 30

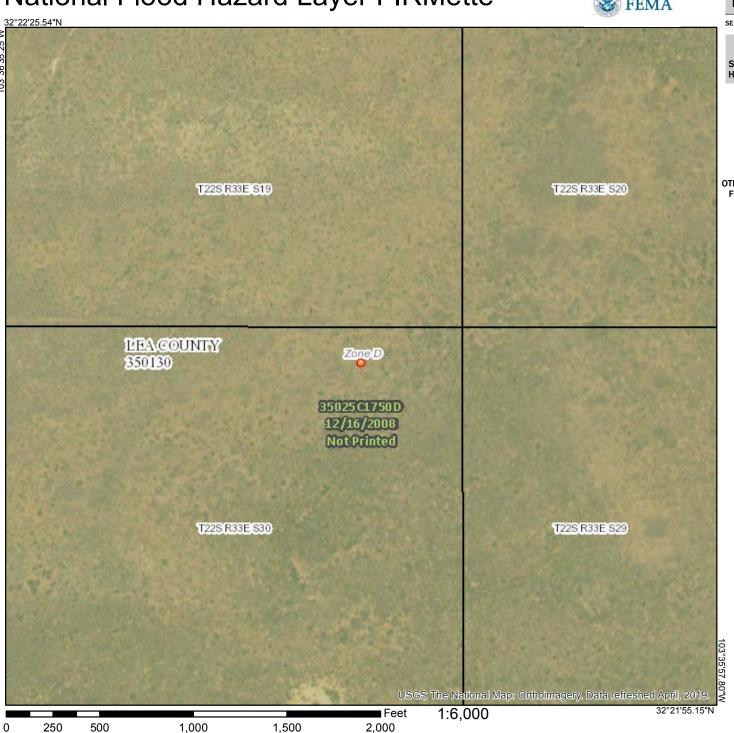


point selected by the user and does not represent an authoritative property location.

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 9/9/2019 at 5:20:19 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Laboratory Analytical Results Summary Red Tank 30 31 34H (8/22/19)

			004.0			
		0	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
		Sample ID	SURFACE	371@1	3F1@2	3P1@3
Analyte	Method	Date	9/19/19	9/19/19	9/19/19	9/19/19
			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	SM4500CI-B		10000	480	48	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		7480	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2380	<10.0	n/a	n/a

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	9/19/19	9/19/19	9/19/19	9/19/19
			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	SM4500CI-B		9440	672	48	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		9780	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2960	<10.0	n/a	n/a

			SP3 @			
		Sample ID	SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	9/19/19	9/19/19	9/19/19	9/19/19
			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	SM4500CI-B		8960	544	96	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		9130	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2760	<10.0	n/a	n/a

			NORTH @	EAST @	WEST @	SOUTH @
		Sample ID	SURFACE	SURFACE	SURFACE	SURFACE
Analyte	Method	Date	9/19/19	9/19/19	9/19/19	9/19/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	< 0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	< 0.300
Chloride	SM4500CI-B		<16.0	<16.0	<16.0	32
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



September 26, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RED TANK 30-31 34H

Enclosed are the results of analyses for samples received by the laboratory on 09/23/19 11:20.

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

Cardinal Laboratories is accreditated 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.

Celey D. Keens

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 397-0397

Received:

09/23/2019

Sampling Date: Sampling Type: 09/19/2019

Reported:

BTEX 8021B

09/26/2019

mg/kg

Soil

Project Name:

RED TANK 30-31 34H

Sampling Condition:

Cool & Intact

Project Number:

8/22/19

Sample Received By:

Tamara Oldaker

Project Location:

OXY

Sample ID: SP 1 @ SURFACE (H903259-01)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2019	ND	1.86	93.1	2.00	1.03	
Toluene*	<0.050	0.050	09/24/2019	ND	1.84	92.2	2.00	0.422	
Ethylbenzene*	<0.050	0.050	09/24/2019	ND	1.82	91.0	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/24/2019	ND	5.46	91.1	6.00	1.46	
Total BTEX	<0.300	0.300	09/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	obenzene (PID 81.1 % 73.3-1.		9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	09/24/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2019	ND	202	101	200	0.0144	
	7480 10.0		00/22/2010	ND	199	99.6	200	10.3	
DRO >C10-C28*	7480	10.0	09/23/2019	ND	199	99.0	200	10.5	

Analyzed By: BF

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane

382 %

37.6-147

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Kreene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 17



Analytical Results For:

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

Fax To: (575) 397-0397

Received: Reported: 09/23/2019

09/26/2019

Project Name:

RED TANK 30-31 34H

Project Number:

8/22/19 OXY

Project Location:

Sampling Date:

09/19/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 1 @ 1' (H903259-02)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2019	ND	1.86	93.1	2.00	1.03	
Toluene*	<0.050	0.050	09/24/2019	ND	1.84	92.2	2.00	0.422	
Ethylbenzene*	<0.050	0.050	09/24/2019	ND	1.82	91.0	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/24/2019	ND	5.46	91.1	6.00	1.46	
Total BTEX	al BTEX <0.300 0.300		09/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	83.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/24/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2019	ND	202	101	200	0.0144	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	199	99.6	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					
Surrogate: 1-Chlorooctane	92.8 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	100 9	6 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. treene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 17



Analytical Results For:

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

Fax To: (575) 397-0397

Received:

09/23/2019

Sampling Date:

09/19/2019

Reported:

09/26/2019

Sampling Type:

Soil

Project Name:

RED TANK 30-31 34H

Sampling Condition: Sample Received By:

BS

Cool & Intact

Project Number:

8/22/19

Tamara Oldaker

Project Location:

Analyte

OXY

Sample ID: SP 1 @ 2' (H903259-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

% Recovery

True Value QC

400

Qualifier

Chloride

Chloride

Result 48.0

Reporting Limit 16.0

09/24/2019

Analyzed

Method Blank ND

432 108

RPD 0.00

Sample ID: SP 1 @ 3' (H903259-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Reporting Limit Analyte Result Analyzed 32.0 16.0 09/24/2019 Method Blank ND

BS 432

% Recovery 108

True Value QC 400

RPD Qualifier 0.00

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Kreene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 17



Analytical Results For:

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

Fax To: (575) 397-0397

Received: Reported: 09/23/2019

09/26/2019

Project Name:

RED TANK 30-31 34H

Project Number:

8/22/19

OXY

Project Location:

Sampling Date: Sampling Type: 09/19/2019

Soil Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H903259-05)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2019	ND	1.86	93.1	2.00	1.03	
Toluene*	<0.050	0.050	09/24/2019	ND	1.84	92.2	2.00	0.422	
Ethylbenzene*	<0.050	0.050	09/24/2019	ND	1.82	91.0	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/24/2019	ND	5.46	91.1	6.00	1.46	
Total BTEX	<0.300 0.300		09/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	79.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9440	16.0	09/24/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2019	ND	202	101	200	0.0144	
DRO >C10-C28*	9780	10.0	09/24/2019	ND	199	99.6	200	10.3	
EXT DRO >C28-C36	2960	10.0	09/24/2019	ND					
Surrogate: 1-Chlorooctane	91.4	% 41-142	!						
Surrogate: 1-Chlorooctadecane	485	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Fax To: (575) 397-0397

Received: Reported: 09/23/2019

09/26/2019

RED TANK 30-31 34H

Project Name: Project Number:

8/22/19

Project Location:

OXY

Sampling Date:

09/19/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 2 @ 1' (H903259-06)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2019	ND	1.86	93.1	2.00	1.03	
Toluene*	<0.050	0.050	09/24/2019	ND	1.84	92.2	2.00	0.422	
Ethylbenzene*	<0.050	0.050	09/24/2019	ND	1.82	91.0	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/24/2019	ND	5.46	91.1	6.00	1.46	
Total BTEX	<0.300 0.300		09/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	81.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	09/24/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2019	ND	202	101	200	0.0144	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	199	99.6	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					
Surrogate: 1-Chlorooctane	86.7	% 41-142							
Surrogate: 1-Chlorooctadecane	94.4	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 397-0397

Received:

09/23/2019

Sampling Date: Sampling Type: 09/19/2019

Reported:

09/26/2019

Soil

Project Name:

RED TANK 30-31 34H

Sampling Condition:

Cool & Intact

Project Number:

8/22/19

Sample Received By:

Tamara Oldaker

Project Location:

Analyte

OXY

Result

Sample ID: SP 2 @ 2' (H903259-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit

16.0

Analyzed

Method Blank

% Recovery

True Value QC

Qualifier

Chloride

48.0

09/24/2019

ND

BS 432

108

400

Sample ID: SP 2 @ 3' (H903259-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank BS

432

% Recovery

True Value QC

Qualifier

Chloride

Analyte Result

Reporting Limit <16.0 16.0

Analyzed 09/24/2019

ND

108

400

0.00

RPD

0.00

RPD

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Analytical Results For:

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

Fax To: (575) 397-0397

Received: Reported: 09/23/2019

09/26/2019

Project Name:

RED TANK 30-31 34H

Project Number: Project Location: 8/22/19 OXY

Sampling Date:

09/19/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 3 @ SURFACE (H903259-09)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2019	ND	1.86	93.1	2.00	1.03	
Toluene*	<0.050	0.050	09/24/2019	ND	1.84	92.2	2.00	0.422	
Ethylbenzene*	<0.050	0.050	09/24/2019	ND	1.82	91.0	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/24/2019	ND	5.46	91.1	6.00	1.46	
Total BTEX	STEX <0.300 0.300		09/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	78.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8960	16.0	09/24/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2019	ND	202	101	200	0.0144	
DRO >C10-C28*	9130	10.0	09/24/2019	ND	199	99.6	200	10.3	
EXT DRO >C28-C36	2760	10.0	09/24/2019	ND					
Surrogate: 1-Chlorooctane	87.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	456 9	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 397-0397

Received: Reported: 09/23/2019

09/26/2019

Project Name: Project Number: RED TANK 30-31 34H

Project Location:

8/22/19

OXY

Sampling Date:

09/19/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 3 @ 1' (H903259-10)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2019	ND	1.86	93.1	2.00	1.03	
Toluene*	<0.050	0.050	09/24/2019	ND	1.84	92.2	2.00	0.422	
Ethylbenzene*	<0.050	0.050	09/24/2019	ND	1.82	91.0	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/24/2019	ND	5.46	91.1	6.00	1.46	
Total BTEX	tal BTEX <0.300 0.3		09/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	81.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	09/24/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2019	ND	202	101	200	0.0144	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	199	99.6	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					
Surrogate: 1-Chlorooctane	88.6	% 41-142)						
Surrogate: 1-Chlorooctadecane	97.0	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 397-0397

Received:

09/23/2019

Sampling Date:

09/19/2019

Reported:

09/26/2019

Sampling Type:

Soil

Project Name:

RED TANK 30-31 34H

Sampling Condition:

Cool & Intact

Project Number:

8/22/19

Sample Received By:

Tamara Oldaker

Project Location:

Analyte

OXY

Sample ID: SP 3 @ 2' (H903259-11)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

BS % Recovery

True Value QC

Qualifier

Chloride

Chloride

Result 96.0

16.0

Reporting Limit

16.0

Analyzed 09/24/2019

09/24/2019

Method Blank ND

ND

432

BS

432

108

400

400

Sample ID: SP 3 @ 3' (H903259-12)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Reporting Limit Analyte Result

32.0

Analyzed Method Blank

% Recovery 108

RPD True Value QC

RPD

0.00

0.00

Qualifier

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Analytical Results For:

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

Fax To: (575) 397-0397

Received:

09/23/2019

Sampling Date:

09/19/2019

Reported:

09/26/2019

Sampling Type:

Soil

Project Name:

RED TANK 30-31 34H

Sampling Condition:

Cool & Intact

Project Number:

8/22/19

Sample Received By:

Tamara Oldaker

Project Location:

OXY

Sample ID: NORTH @ SURFACE (H903259-13)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2019	ND	1.86	93.1	2.00	1.03	
Toluene*	<0.050	0.050	09/24/2019	ND	1.84	92.2	2.00	0.422	
Ethylbenzene*	< 0.050	0.050	09/24/2019	ND	1.82	91.0	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/24/2019	ND	5.46	91.1	6.00	1.46	
Total BTEX	RTEX <0.300 0.300		09/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	80.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/24/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2019	ND	202	101	200	0.0144	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	199	99.6	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					
Surrogate: 1-Chlorooctane	88.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	96.1	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 397-0397

Received: Reported:

BTEX 8021B

09/23/2019

09/26/2019

Project Name:

RED TANK 30-31 34H

Project Number:

8/22/19 OXY

Project Location:

mg/kg

Sampling Condition:

Sampling Date:

Sampling Type:

09/19/2019

Soil

Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: EAST @ SURFACE (H903259-14)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2019	ND	1.86	93.1	2.00	1.03	
Toluene*	<0.050	0.050	09/24/2019	ND	1.84	92.2	2.00	0.422	
Ethylbenzene*	<0.050	0.050	09/24/2019	ND	1.82	91.0	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/24/2019	ND	5.46	91.1	6.00	1.46	
Total BTEX	<0.300 0.300		09/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	82.2 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/24/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte			Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2019	ND	202	101	200	0.0144	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	199	99.6	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					

Analyzed By: BF

41-142 Surrogate: 1-Chlorooctane 80.6 % 87.7 % Surrogate: 1-Chlorooctadecane 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Page 12 of 17



Analytical Results For:

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

Fax To: (575) 397-0397

Received: Reported: 09/23/2019

09/26/2019

Project Name: Project Number: RED TANK 30-31 34H

Project Location:

8/22/19

OXY

Sampling Date:

09/19/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: WEST @ SURFACE (H903259-15)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2019	ND	1.86	93.1	2.00	1.03	
Toluene*	<0.050	0.050	09/24/2019	ND	1.84	92.2	2.00	0.422	
Ethylbenzene*	<0.050	0.050	09/24/2019	ND	1.82	91.0	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/24/2019	ND	5.46	91.1	6.00	1.46	
Total BTEX	<0.300	0.300	09/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	79.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/24/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2019	ND	202	101	200	0.0144	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	199	99.6	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					
Surrogate: 1-Chlorooctane	91.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.6	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Fax To: (575) 397-0397

Received: Reported: 09/23/2019

09/26/2019

Project Name: Project Number: RED TANK 30-31 34H

Project Location:

8/22/19 OXY

Sampling Date:

09/19/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SOUTH @ SURFACE (H903259-16)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2019	ND	1.86	93.1	2.00	1.03	
Toluene*	<0.050	0.050	09/24/2019	ND	1.84	92.2	2.00	0.422	
Ethylbenzene*	<0.050	0.050	09/24/2019	ND	1.82	91.0	2.00	1.55	
Total Xylenes*	<0.150	0.150	09/24/2019	ND	5.46	91.1	6.00	1.46	
Total BTEX	<0.300 0.300		09/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	81.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/24/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/24/2019	ND	202	101	200	0.0144	
DRO >C10-C28*	<10.0	10.0	09/24/2019	ND	199	99.6	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	09/24/2019	ND					
Surrogate: 1-Chlorooctane	91.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.8	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. treene

Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Sampler - UPS - Bus - Other:

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Page 29 of 30 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

Company Name	BBC International, Inc.								ır İ	B	IL	L TO	To the second					ANA	LYSIS	S RE	QUE	ST			
Project Manage	r: Cliff Brunson						1	P.O.	#:																
Address: P.O.	Box 805							Con	пра	ny:	ť	DXY													
city: Hobbs	State: NM	Zip	: 8	882	41			Attr	ı: (ور	. 1	Detta	ich										1		
Phone #: 575-	397-6388 Fax #: 575	-39	7-0	397	7			Add	res	s:															
Project #:	Project Owne	r: O	ху					City	:																
Project Name:	RED TANK 30-31 34H - 8-22-19							Stat	e:		Z	Zip:													
Project Location								Pho	ne	#:														1.	
Sampler Name:	JEFF ORNELAS							Fax	#:					9	7										
FOR LAB USE ONLY					MAT	RIX			PRE	SER	V.	SAMPLI	NG	9	Ext										
	(G)RAB OR (C)OMP #CONTAINERS GROUNDWATER WASTEWATER SOIL							1			١			0	M		1								
			ER	WAT	TER			١	ńi	_				٦	7	U									
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3	SP1 @ 2'	Π	Ħ	t				\exists	7	\mathbf{H}	-	9-19-19	9:20												
J	SP1 @ 3'	+	Ħ	t				1		T		9-19-19	9:41	V											
5	SP2 @ SURFACE	П	Ħ	T								9-19-19	9:59	~		-									
4	SP2 @ 1'	П	П	t								9-19-19	10:16	-	-	_								Į.	
9	SP2 @ 2'	\Box	П	T								9-19-19	10:30	~											
8	SP2 @ 3'	Π	Π	T						1	1	9-19-19	10:50	-											
9	SP3 @ SURFACE	П	П	T								9-19-19	11:11	~	-	_									
W	SP3 @ 1'	J	1		1					J		9-19-19	11:33				1								
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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Page 30 of 30 2 2

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-247	6																					
the state of the same of the s	BBC International, Inc.							ша		BI	LL TO						ANAI	LYSIS	S RE	QUE	ST		
Project Manage	r: Cliff Brunson							P.O.	#:														
Address: P.O	. Box 805							Con	npai	ny:													
city: Hobbs	State: NM	Zip	: 8	8824	11			Attn	:														
Phone #: 575-	397-6388 Fax #: 575	-39	7-0	397				Add	res	s:			1 1										
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Project Name:	RED TANK 30-31 34H - 8-22-19							Stat	e:		Zip:												
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