

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 WORKPLAN

OXY – CHRISTOPHER FEDERAL 2 CTB

(Leak Date: 11/14/18)

RP # 2RP-5175

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5175.

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 (BLUE shade on diagram) will be excavated to a depth of 1 foot.

Bottom confirmation samples will be collected at no greater than 50 ft. intervals. Estimated volume of material to be removed is 137 cubic yards. The remediation will be completed within 90 days of plan approval.

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

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

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5175
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?	140 (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?	☐ Yes ■ 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?	☐ Yes ■ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ■ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ■ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ■ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ■ No
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 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	ls.

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	2RP-5175
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 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: / /all flut	Date: 2-12-18
email: wade_dittrich@oxy.com	Telephone: (575) 390-2828
OCD Only	
Received by:	Date:

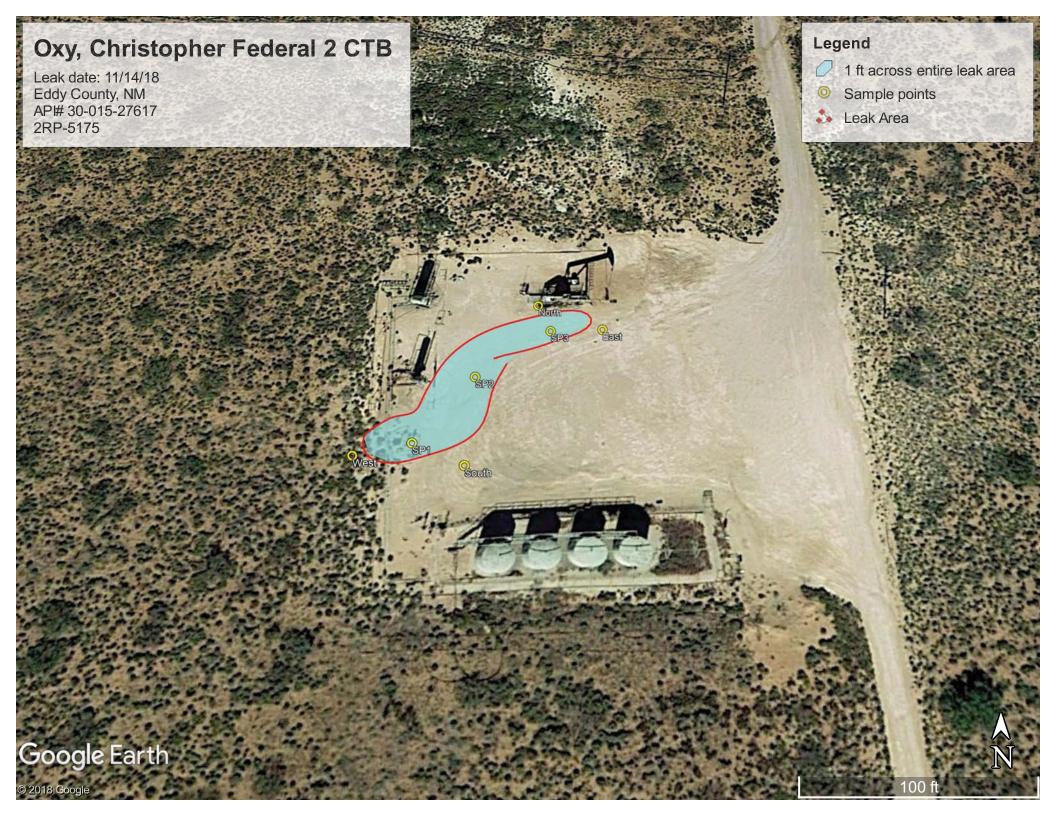
Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	
District RP	2RP-5175
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.						
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation point Estimated volume of material to be remediated	s						
Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC							
Proposed schedule for remediation (note if remediation plan tim	eline is more than 90 days OCD approval is required)						
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.						
Contamination must be in areas immediately under or around predeconstruction.	oduction 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.						
Thomshy partify that the information given shove is true and complete	te to the best of my knowledge and understand that pursuant to OCD						
	ertain release notifications and perform corrective actions for releases						
which may endanger public health or the environment. The accepta	nce of a C-141 report by the OCD does not relieve the operator of						
liability should their operations have failed to adequately investigate							
surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local l							
	Title: Environmental Coordinator						
Printed Name: Wade Dittrich Signature:	1 nue:						
	Date: <u>d-12-17</u>						
email: wade_dittrich@oxy.com	Date: <u>A-12-19</u> Telephone: (575) 390-2828						
OCD Only							
Received by:	Date:						
☐ Approved with Attached Conditions of	Approval						
Signature:	Date:						



Oxy, Christopher Federal 2 CTB

Sample points:

SP1, N 32.26247 W-103.80975

SP2, N 32.26258 W-103.80965

SP3, N 32.26267 W-103.80952

NORTH, N 32.26271 W-103.80954

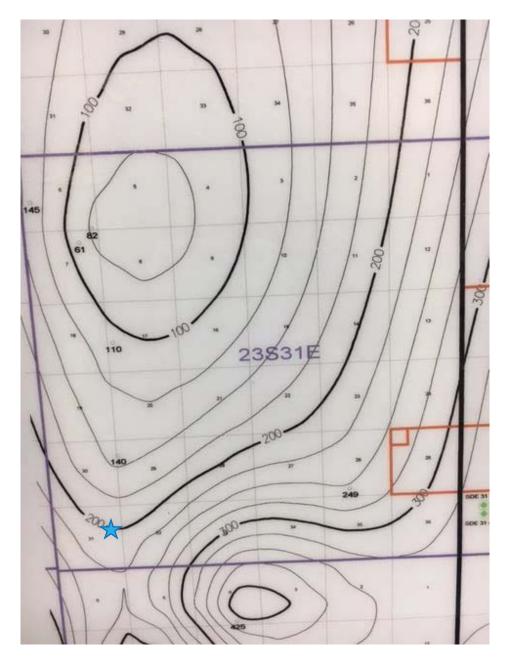
SOUTH, N 32.26244 W-103.80966

EAST, N 32.26267 W-103.80943

WEST, N 32.26245 W-103.80984

Oxy, Christopher Federal 2 CTB U/L H, Section 31, T23S, R31E

Groundwater: 200'





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

Data Category: Groundwater **USGS Water Resources** GO New Mexico

Click to hideNews Bulletins

- Please see news on new formats
 Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321648103482101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321648103482101 23S.31E.29.11333

Eddy County, New Mexico Latitude 32°16'48", Longitude 103°48'21" NAD27 Land-surface elevation 3,336 feet above NAVD88 The depth of the well is 220 feet below land surface.

This well is completed in the Dewey Lake Redbeds (312DYLK) local aquifer.

Output formats

				o m i p m i To i Ti i m a i o		
Table of data						
Tab-separated	l data					
Graph of data						
Reselect perior	d					
	?	Water	Water	2		?

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1959-03-26		D	138.43			2		L		U	Α
1972-09-20		D	139.90			2	1	R L		U	Α

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

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

Explanation of terms

Subscribe for system changes

News

Accessibility Plug-Ins FOIA Privacy 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?

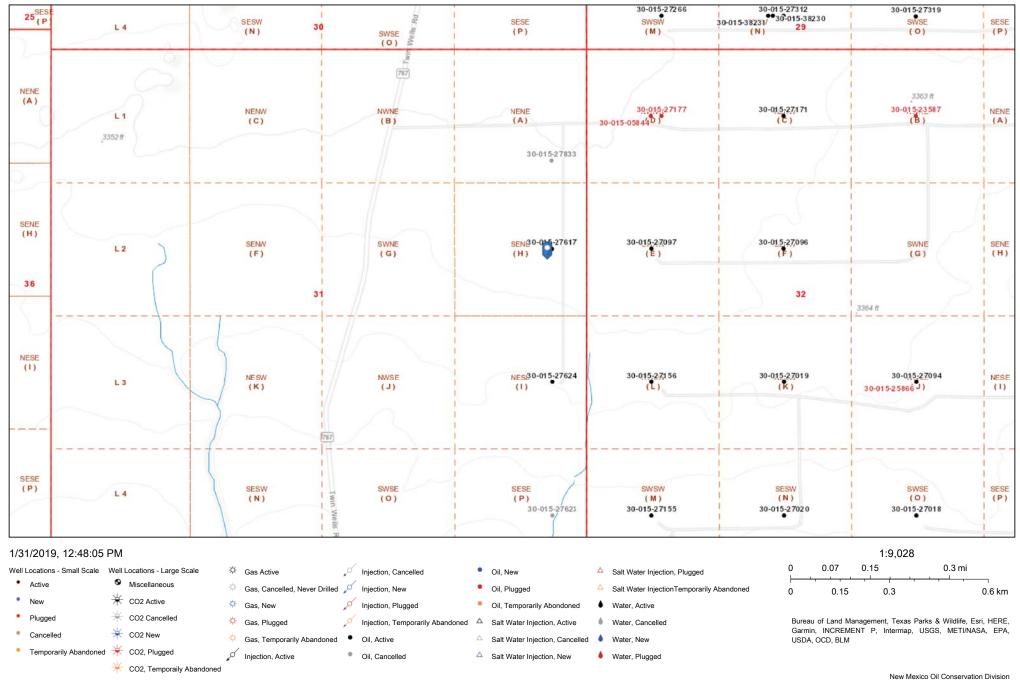
Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2019-01-31 15:03:42 EST

0.52 0.46 nadww01

USA.gov

1/31/2019, 1:05 PM 1 of 1

Christopher Federal 2 CTB, Topo Map w/ Water Features

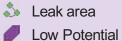


Christopher Federal 2 CTB

Leak Date 11-14-18 Eddy Co API# 30-015-27617 2RP-5175

BLM CAVE KARST MAP

Legend





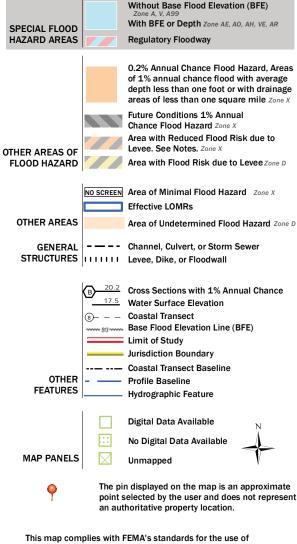


National Flood Hazard Layer FIRMette



Legend

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



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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/31/2019 at 3:16:35 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.



			SP1 @		
		Sample ID	SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	1/28/19	1/28/19	1/28/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.486	<0.050	<0.050
Ethylbenzene	BTEX 8021B		3.39	<0.050	<0.050
Total Xylenes	BTEX 8021B		9.78	<0.150	<0.150
Total BTEX	BTEX 8021B		13.7	<0.300	<0.300
Chloride	SM4500CI-B		1740	32	64
GRO	TPH 8015M		697	<10.0	<10.0
DRO	TPH 8015M		13000	711	629
EXT DRO	TPH 8015M		2320	419	439

			SP2 @				
		Sample ID	SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	1/28/19	1/28/19	1/28/19	1/28/19	1/28/19
			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		0.462	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		3.48	<0.050	<0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		10.1	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		14	<0.300	<0.300	<0.300	< 0.300
Chloride	SM4500CI-B		2480	32	48	48	64
GRO	TPH 8015M		502	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		11200	62.9	137	44.8	72.6
EXT DRO	TPH 8015M		2900	11.2	18.4	<10.0	17.6

			SP3 @				
		Sample ID	SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	1/28/19	1/28/19	1/28/19	1/28/19	1/28/19
			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		0.634	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		4.83	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		15	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		20.4	<0.300	<0.300	<0.300	< 0.300
Chloride	SM4500CI-B		2520	48	80	96	96
GRO	TPH 8015M		847	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		19900	92.8	<10.0	62.7	155
EXT DRO	TPH 8015M		4960	36	<10.0	29.7	78.7

	1		NORTH @	EACT @	WEST @	COLITH
		Sample ID	SURFACE	EAST @ SURFACE	SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	1/28/19	1/28/19	1/28/19	1/28/19
			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	0.168	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		48	16	32	32
GRO	TPH 8015M		<50.0	<10.0	<50.0	<50.0
DRO	TPH 8015M		675	<10.0	702	549
EXT DRO	TPH 8015M		300	<10.0	355	141



February 07, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CHRISTOPHER FEDERAL #2 CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/31/19 9:00.

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/ga/lab accred 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.

Celeg 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



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker (11/14/18)

Project Location: OXY - EDDY CO NM

Sample ID: SP 1 @ SURFACE (H900353-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	0.486	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	3.39	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	9.78	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	13.7	0.300	02/05/2019	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	1740	16.0	02/04/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	697	100	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	13000	100	02/02/2019	ND	257	129	200	20.4	QM-07
EXT DRO >C28-C36	2320	100	02/02/2019	ND					
Surrogate: 1-Chlorooctane	112 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	605	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: (11/14/18)Tamara Oldaker

OXY - EDDY CO NM Project Location:

Sample ID: SP 1 @ 1' (H900353-02)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	<0.050	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/04/2019	ND	400	100	400	3.92	
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	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	711	10.0	02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36	419	10.0	02/02/2019	ND					
Surrogate: 1-Chlorooctane	86.6	% 41-142	?						
G 1	110	27.1	-						

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact
Project Number: (11/14/18) Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

Sample ID: SP 1 @ 2' (H900353-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	<0.050	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.7	% 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	64.0	16.0	02/04/2019	ND	400	100	400	3.92	
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	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	629	10.0	02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36	439	10.0	02/02/2019	ND					
Surrogate: 1-Chlorooctane	93.5	% 41-142	!						

Surrogate: 1-Chlorooctane 93.5 % 41-142
Surrogate: 1-Chlorooctadecane 116 % 37.6-147

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact
Project Number: (11/14/18) Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: OXY - EDDY CO NM

mg/kg

Sample ID: SP 2 @ SURFACE (H900353-04)

BTEX 8021B

DIEX COLLE	9/	~ 9	Andryze	u 27. 1.15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	0.462	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	3.48	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	10.1	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	14.0	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.8	% 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	2480	16.0	02/04/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	502	100	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	11200	100	02/02/2019	ND	257	129	200	20.4	

Surrogate: 1-Chlorooctane 110 % 41-142 Surrogate: 1-Chlorooctadecane 516 % 37.6-147

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Fax To: (575) 397-0397

Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: (11/14/18)Tamara Oldaker

OXY - EDDY CO NM Project Location:

Sample ID: SP 2 @ 1' (H900353-05)

Analyte Result Reporting Limit Analyzed Benzene* <0.050 0.050 02/05/2019 Toluene* <0.050 0.050 02/05/2019 Ethylbenzene* <0.050 0.050 02/05/2019 Total Xylenes* <0.150 0.150 02/05/2019 Total BTEX <0.300 0.300 02/05/2019	Method Blank ND ND ND ND ND ND	1.86 1.88 1.85 5.40	% Recovery 93.0 94.1 92.6 89.9	True Value QC 2.00 2.00 2.00 6.00	2.12 2.58 4.94 4.62	Qualifier
Toluene* <0.050 0.050 02/05/2019 Ethylbenzene* <0.050 0.050 02/05/2019 Total Xylenes* <0.150 0.150 02/05/2019	ND ND ND	1.88 1.85	94.1 92.6	2.00 2.00	2.58 4.94	
Ethylbenzene* <0.050 0.050 02/05/2019 Total Xylenes* <0.150 0.150 02/05/2019	ND ND ND	1.85	92.6	2.00	4.94	
Total Xylenes* <0.150 0.150 02/05/2019	ND ND					
	ND	5.40	89.9	6.00	4.62	
Total BTEX <0.300 0.300 02/05/2019						
Surrogate: 4-Bromofluorobenzene (PID 97.7 % 73.3-129						
Chloride, SM4500Cl-B mg/kg Analyzed	I By: AC					
Analyte Result Reporting Limit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride 32.0 16.0 02/04/2019	ND	416	104	400	0.00	
TPH 8015M mg/kg Analyzed	i By: MS					
Analyte Result Reporting Limit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10* <10.0 10.0 02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28* 62.9 10.0 02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36 11.2 10.0 02/02/2019	ND					
Surrogate: 1-Chlorooctane 93.3 % 41-142						
Surrogate: 1-Chlorooctadecane 94.2 % 37.6-147						

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Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: (11/14/18)Tamara Oldaker

OXY - EDDY CO NM Project Location:

Sample ID: SP 2 @ 2' (H900353-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	<0.050	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.7	% 73.3-12	19						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/04/2019	ND	416	104	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	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	137	10.0	02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36	18.4	10.0	02/02/2019	ND					
Surrogate: 1-Chlorooctane	92.8	% 41-142	?						
G	00.1	0/ 27/1							

Surrogate: 1-Chlorooctadecane 98.1 % 37.6-147

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Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: (11/14/18)Tamara Oldaker

OXY - EDDY CO NM Project Location:

Sample ID: SP 2 @ 3' (H900353-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	<0.050	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 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	48.0	16.0	02/04/2019	ND	416	104	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	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	44.8	10.0	02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2019	ND					
Surrogate: 1-Chlorooctane	95.5	% 41-142	?						
G 1 GH 1	06.04	27 . 1	7						

Surrogate: 1-Chlorooctadecane 96.8 % 37.6-147

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Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: (11/14/18)Tamara Oldaker

OXY - EDDY CO NM Project Location:

Sample ID: SP 2 @ 4' (H900353-08)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	<0.050	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.2	% 73.3-12	19						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/04/2019	ND	416	104	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	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	72.6	10.0	02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36	17.6	10.0	02/02/2019	ND					
Surrogate: 1-Chlorooctane	91.8	% 41-142	?						

Surrogate: 1-Chlorooctadecane 96.2 % 37.6-147

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Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact
Project Number: (11/14/18) Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

Sample ID: SP 3 @ SURFACE (H900353-09)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	0.634	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	4.83	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	15.0	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	20.4	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	83.8	% 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	2520	16.0	02/04/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	847	100	02/02/2019	ND	213	106	200	1.95	

ND

ND

257

129

200

20.4

02/02/2019

02/02/2019

Surrogate: 1-Chlorooctane 125 % 41-142 Surrogate: 1-Chlorooctadecane 842 % 37.6-147

19900

4960

100

100

DRO >C10-C28*

EXT DRO > C28 - C36

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Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: (11/14/18)Tamara Oldaker

OXY - EDDY CO NM Project Location:

Sample ID: SP 3 @ 1' (H900353-10)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	<0.050	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 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	48.0	16.0	02/04/2019	ND	416	104	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	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	92.8	10.0	02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36	36.0	10.0	02/02/2019	ND					
Surrogate: 1-Chlorooctane	96.4	% 41-142	?						

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact
Project Number: (11/14/18) Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

Sample ID: SP 3 @ 2' (H900353-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	<0.050	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/04/2019	ND	416	104	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	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	<10.0	10.0	02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	02/02/2019	ND					
Surrogate: 1-Chlorooctane	89.9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	90.1	% 37.6-14	7						

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Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker (11/14/18)

OXY - EDDY CO NM Project Location:

Sample ID: SP 3 @ 3' (H900353-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	<0.050	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	<0.150 0.150		02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 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	96.0	16.0	02/04/2019	ND	416	104	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	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	62.7	10.0	02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36	29.7	10.0	02/02/2019	ND					
Surrogate: 1-Chlorooctane	92.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.6	% 37.6-14	7						

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Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker (11/14/18)

OXY - EDDY CO NM Project Location:

Sample ID: SP 3 @ 4' (H900353-13)

BTEX 8021B	mg,	/kg	Analyze	d By: MS								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12				
Toluene*	<0.050	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58				
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94				
Total Xylenes*	<0.150	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62				
Total BTEX	<0.300	0.300	02/05/2019	ND								
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 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	96.0	16.0	02/04/2019	ND	416	104	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	02/02/2019	ND	213	106	200	1.95				
DRO >C10-C28*	155	10.0	02/02/2019	ND	257	129	200	20.4				
EXT DRO >C28-C36	78.7	10.0	02/02/2019	ND								
Surrogate: 1-Chlorooctane	96.8	% 41-142	?									
Commenter 1 Chlores at all and	102	27 6 14	17									

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: (11/14/18)

OXY - EDDY CO NM Project Location:

Sample ID: NORTH @ SURFACE (H900353-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	<0.050	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	<0.300	0.300	02/05/2019 ND						
Surrogate: 4-Bromofluorobenzene (PID	94.7 %	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	48.0	16.0	02/04/2019	ND	416	104	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*	<50.0	50.0	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	675 50.0		02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36	300	50.0	02/02/2019	ND					
Surrogate: 1-Chlorooctane	86.4 %	% 41-142	!						

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

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Fax To: (575) 397-0397

Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact
Project Number: (11/14/18) Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

Sample ID: EAST @ SURFACE (H900353-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	<0.050 0.050				1.88	94.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	0.168	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5 9	% 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	02/04/2019	ND	416	104	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*	<50.0	50.0	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	702	50.0	02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36	355	50.0	02/02/2019	ND					
Surrogate: 1-Chlorooctane	90.9 9	% 41-142	?						

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Fax To: (575) 397-0397

Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact
Project Number: (11/14/18) Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

Sample ID: WEST @ SURFACE (H900353-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	1.86	93.0	2.00	2.12	
Toluene*	<0.050	0.050	02/05/2019	ND	1.88	94.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	1.85	92.6	2.00	4.94	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	5.40	89.9	6.00	4.62	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 73.3-12	9						
Chloride, SM4500Cl-B	hloride, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/04/2019	ND	416	104	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*	<50.0	50.0	02/02/2019	ND	213	106	200	1.95	
DRO >C10-C28*	549	50.0	02/02/2019	ND	257	129	200	20.4	
EXT DRO >C28-C36	141	50.0	02/02/2019	ND					
Surrogate: 1-Chlorooctane	94 3 9	% 41-142)						

Surrogate: 1-Chlorooctane 94.3 % 41-142 Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 01/31/2019 Sampling Date: 01/28/2019

Reported: 02/07/2019 Sampling Type: Soil

Project Name: CHRISTOPHER FEDERAL #2 CTB Sampling Condition: Cool & Intact
Project Number: (11/14/18) Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY CO NM

Sample ID: SOUTH @ SURFACE (H900353-17)

BTEX 8021B	mg/	'kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/04/2019	ND	1.98	98.9	2.00	0.149		
Toluene*	<0.050	0.050	02/04/2019	ND	2.00	100	2.00	0.858		
Ethylbenzene*	<0.050	0.050	02/04/2019	ND	1.95	97.3	2.00	2.00 1.61		
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.62	93.6	6.00	0.885		
Total BTEX	<0.300	0.300	02/04/2019	ND						
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 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	02/04/2019	ND	416	104	400	0.00		
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	02/02/2019	ND	213	106	200	1.95		
DRO >C10-C28*	2590	50.0	02/02/2019	ND	257	129	200	20.4		

ND

02/02/2019

Surrogate: 1-Chlorooctane 93.6 % 41-142 Surrogate: 1-Chlorooctadecane 158 % 37.6-147

1110

50.0

EXT DRO >C28-C36

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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.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1042

	(505) 393-2326 FAX (505) 393-247	6																					
Company Name	BBC International, Inc.									BI	LL TO					AN	VALY	SIS	RE	QUE	ST		
Project Manage	r: Cliff Brunson						F	P.O. #	¥:						Î								-
Address: P.O	. Box 805							Comp	oan	y:	DXY												
city: Hobbs	State: NM	Zip):	8824	1			Attn:		1	ithrich		1										
Phone #: 575-	397-6388 Fax #: 575	-39	7-0	397			1	Address:															
Project #:	Project Owner	: 0	ху					City:				_									-		y in-m
Project Name: Christopher Federal #2 CTB (11/14/18)								State: Zip:															251
Project Location	THE PROPERTY OF SECURITIES AND A PROPERTY OF SECURITIES AND A SECURITIES A		-					hone			ш.р.												
Sampler Name:								ax#															
FOR LAB USE ONLY	on omeias		Г	Г	MA	TRIX		- 2000		ERV.	SAMPL	ING	1		,					,			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	8TEX	<i>C1</i>	TP4EKT								
1	SP1 @ SURFACE	G	1		V				V	1	1/28/19	9:01 AM	1	1	1								
2	SP1 @ 1'	1	1						1		1/28/19	9:15 AM	1	1	1								
3	SP1 @ 2'		П								1/28/19	9:39AM	1	✓	1								
4	SP2 @ SURFACE		Ц								1/28/19	10:05 AM	1	1	1								
5	SP2 @ 1'		П					27			1/28/19	10:22 AM	1	1	1								
6	SP2 @ 2'	Ш							1		1/28/19	10:51 AM	1	✓	1								
7	SP2 @ 3'	Ц	П								1/28/19	11:11 AM	1	1	1								
8	SP2 @ 4'										1/28/19	11:31 AM	1	1	1								
9	SP3 @ SURFACE	1	11		1				1		1/28/19	11:50 AM	1	1	1								
10	SP3 @ 1'	V	V		V				V		1/28/19	12:51 PM	1	✓	1								
analyses. All claims includi service. In no event shall C	nd Damages. Cardinal's liability and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, including ing out of or related to the performance of services hereunder by C	deeme witho	d wais ut limi	ed unlessation, bus	s made i siness in	n writin terrupt	ig and re ions, los	eceived l s of use	by Ca , or lo	rdinal v	within 30 days aft rofits incurred by	er completion of th client, its subsidia	ne applica ries,	ble									

	e of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated rea	sons or otherwise.			· · · · · · · · · · · · · · · · · · ·
Relinquished By:	Date: Received By:	Phone Result:	☐ Yes	□ No	Add'l Phone #:
1000		Fax Result:	☐ Yes	□ No	Add'l Fax #:
1945 Mall 4	Time: m	REMARKS:			
VUI MUUS	5,000				
Relinquished By:	Date: Received By:				
11:	1-31-19				
4	Time:				
K	oreo Samura d'accessoration				
Delivered By: (Circle One)	Sample Condition CHECKED BY				
THE WILLIAM NAME OF THE PARTY O	Cool Intact (Initials)				
Sampler - UPS - Bus - Other:	Olc Hon Yes Yes				
	O. (C 49/ No No				

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

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

282

(505) 393-2326 FAX (505) 393-2476																										
	e: BBC International, Inc.							133		0:::::: #:::::	BI		L TO						ANA	LYSI	S RI	EQUE	ST			
Project Manage	er: Cliff Brunson							P	.0.	#:																
Address: P.O	. Box 805							С	om	pan	ıy:		089													'
city: Hobbs	State: NM	Zi	p: {	882	241			Α	ttn:	:		D	ithrich													'
Phone #: 575-	-397-6388 Fax#: 575	-39	7-0	139	7			Α	ddr	ress	s:	1270	100 ss													
Project #:	Project Owne							С	ity:	X.																
	Project Name: Christopher Federal #2 CTB (11/14/18)							s	tate	e:		Z	Zip:													
Project Location: Eddy County, NM							P	hor	ne#	‡ :																
Sampler Name:	Jeff Ornelas							F	ax #	5022																
FOR LAB USE ONLY		۵.			IV	WATR	XIX	_	PI	RES	SERV	4	SAMPLI	NG	1		,		ŀ						1 1	
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H906353		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	OTH.	ACID/BASE:	ACIDIBASE ICE / COOL	OTHER:		DATE	TIME	م	2	K									
11	SP3 @ 2'	6				1		T	T	V	1	_	1/28/19	1:09 PM	1	1	1				1					
12	SP3 @ 3'	1							I	1		1	1/28/19	1:30 PM	1	1	1									
13		П	П					I				1	1/28/19	1:48 PM	1	1	1									
14	NORTH @ SURFACE	11	Ц			\coprod		\perp	L			1	1/28/19	1:50 PM	1	1	1									
15	EAST @ SURFACE	11	\coprod	4	1	\bot			1			-	1/28/19	1:59 PM	1	1	✓									
14	WEST @ SURFACE	4	\mathbb{H}		-	1		\perp	\perp			-	with the company of t	2:15 PM	√	1	1									
	SOUTH @ SURFACE	1	1	4	+	V	_	_	\bot	_\	<u> </u>	1	1/28/19	2:22 PM	✓	√	✓		-							
	1/29/19	1	╀	+	+	+	_	+	╀		4	╀														
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PLEASE NOTE: Liability a	and Damages. Cardinal's liability and client's exclusive remedy for	any cla	im aris	sing w	hether b	ased ir	1 contra	act or !	tort, st	hall be	e limited	d to t	the amount pai	d by the client for	r the											
service. In no event shall 0	ling those for negligence and any other cause whatsoever shall be Cardinal be liable for incidental or consequental damages, includin	ng withou	out limit	itation.	, business	ss intern	ruptions	s, loss	of use	se, or li	loss of p	profit	its incurred by c	client, its subsidia	aries,	ile										
Relinquished B	sing out of or related to the performance of services hereunder by by: Date:				By:		ch claim	n is ba	ased u	upon a	any of th	he at	bove stated rea	Phone Res		□ Ye	s [No	Add'l	Phone	#:					
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Relinquished By: Date: Received, By:									_					Kemedaa	2.											
Reilliquisied	Date: 1-31-19	- Ne	3Cer	veu	, Бу.				1	7/	61	1	1/													
62	1090US			11	Zu	a	La	1	6	Ki	da	1	Less													
Delivered By	r: (Circle One)						Condi			C	HECI (Ini	KEI itial														
Sampler - UPS - Bus - Other: Old Hage Cool Intact Gyes Gyes No D No									7	T	0			l												