



DELINEATION WORKPLAN

OXY – STERLING SILVER 34 FEDERAL #2 CTB (Leak Date: 12/29/18)

RP # 2RP-5176

This delineation workplan and remediation proposal addresses the releases associated with RP # 2RP-5176.

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 6 inches.

Bottom confirmation samples will be collected at no greater than 50 ft. intervals. Estimated volume of material to be removed is 215 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.

Incident ID	
District RP	2RP-5176
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?	102 (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 1/2-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5176
Facility ID	
Application ID	

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

Printed Name: Wade Dittrich Title: Environmental Coordinator

Signature:  Date: 2-19-19

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

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	2RP-5176
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: 2-15-19
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____




☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

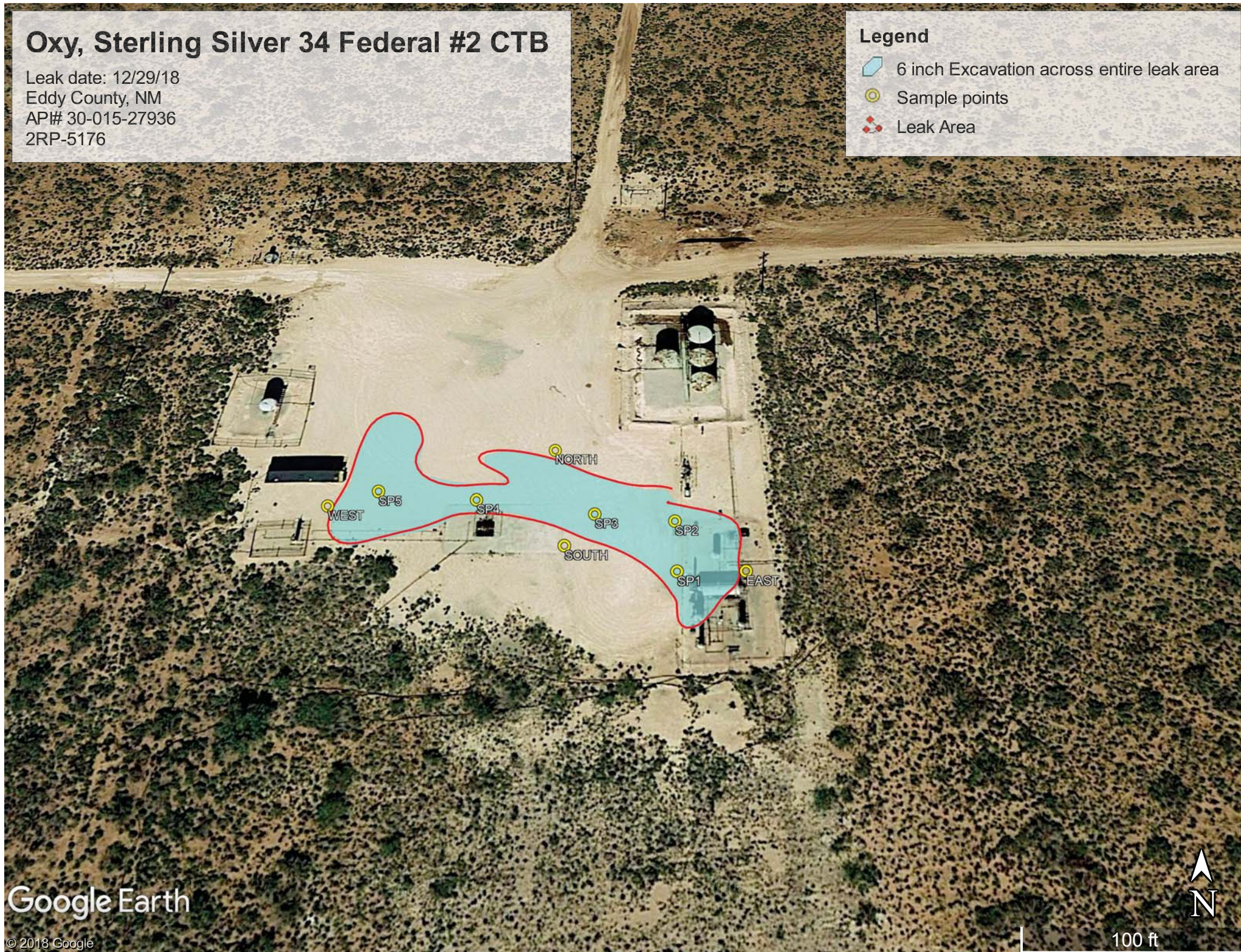
Signature: _____ Date: _____

Oxy, Sterling Silver 34 Federal #2 CTB

Leak date: 12/29/18
Eddy County, NM
AP# 30-015-27936
2RP-5176

Legend

-  6 inch Excavation across entire leak area
-  Sample points
-  Leak Area



Google Earth

© 2018 Google

100 ft

Oxy, Sterling Silver 34 Federal #2 CTB

Sample points

SP1, N 32.26265 W-103.77174

SP2, N 32.26274 W-103.77174

SP3, N 32.26276 W-103.77188

SP4, N 32.26278 W-103.77210

SP5, N 32.26280 W-103.77227

NORTH, N 32.26288 W-103.77196

SOUTH, N 32.26270 W-103.77194

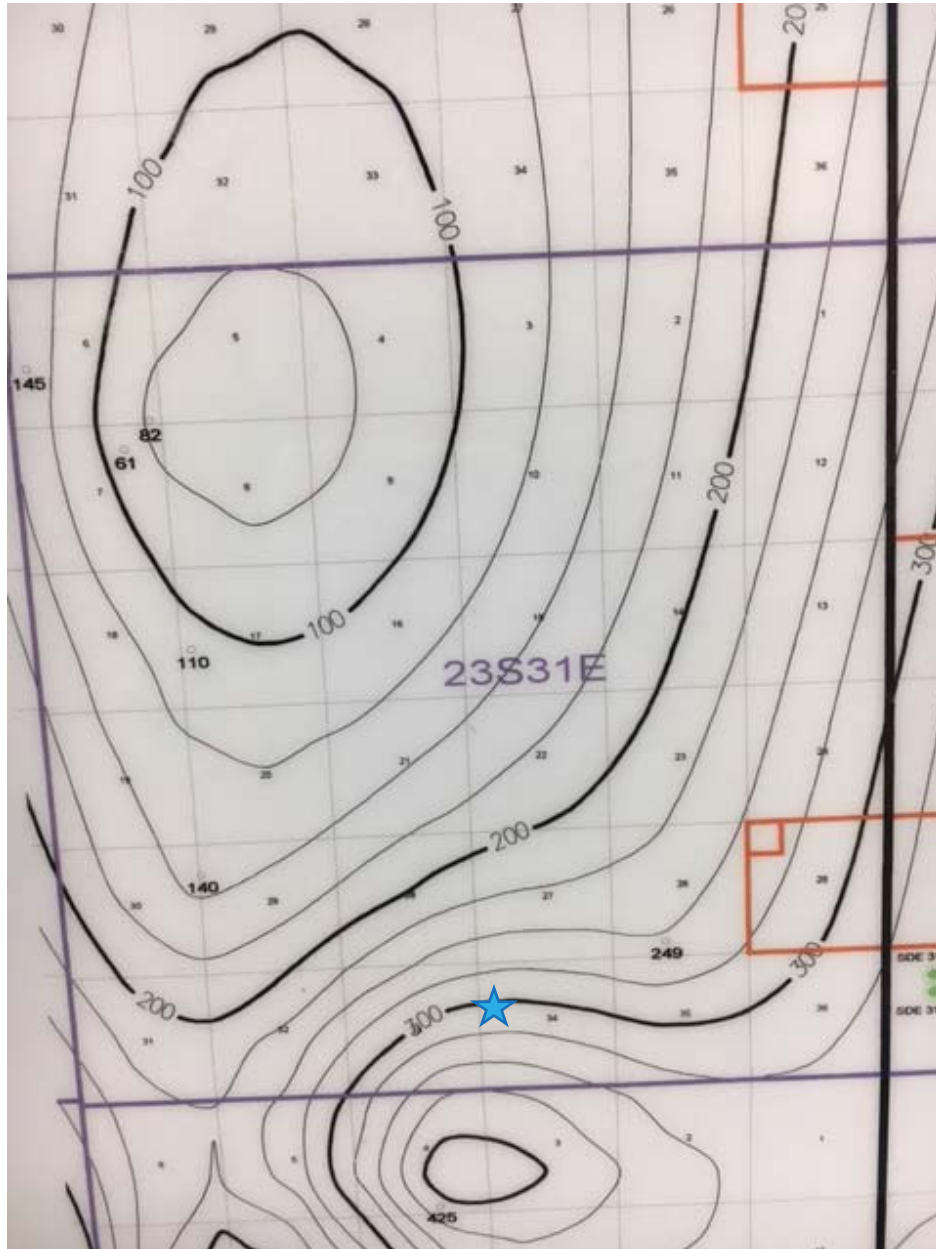
EAST, N 32.26265 W-103.77162

WEST, N 32.26277 W-103.77236

Oxy, Sterling Silver 34 Federal 2 CTB

U/L E, Section 34, T23S, R31E

Groundwater: 300'





USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

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 =

- 321609103445901

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321609103445901 23S.31E.26.34411

Eddy County, New Mexico

Latitude 32°16'11.9", Longitude 103°45'01.2" NAD83

Land-surface elevation 3,451.00 feet above NGVD29

The depth of the well is 365 feet below land surface.

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

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurment
1959-02-04		D	256.87			2	P		U	
1972-09-20		D	250.47			2			U	
1988-03-17		D	249.02			2			S	
2013-01-16	17:00 MST	m	101.55			2	P		S	USGS
2013-02-14	08:00 MST	m					P		S	USGS

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy		Not determined
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.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined

Section	Code	Description
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.
Water-level approval status	P	Provisional data subject to revision.

[Questions about sites/data?](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

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

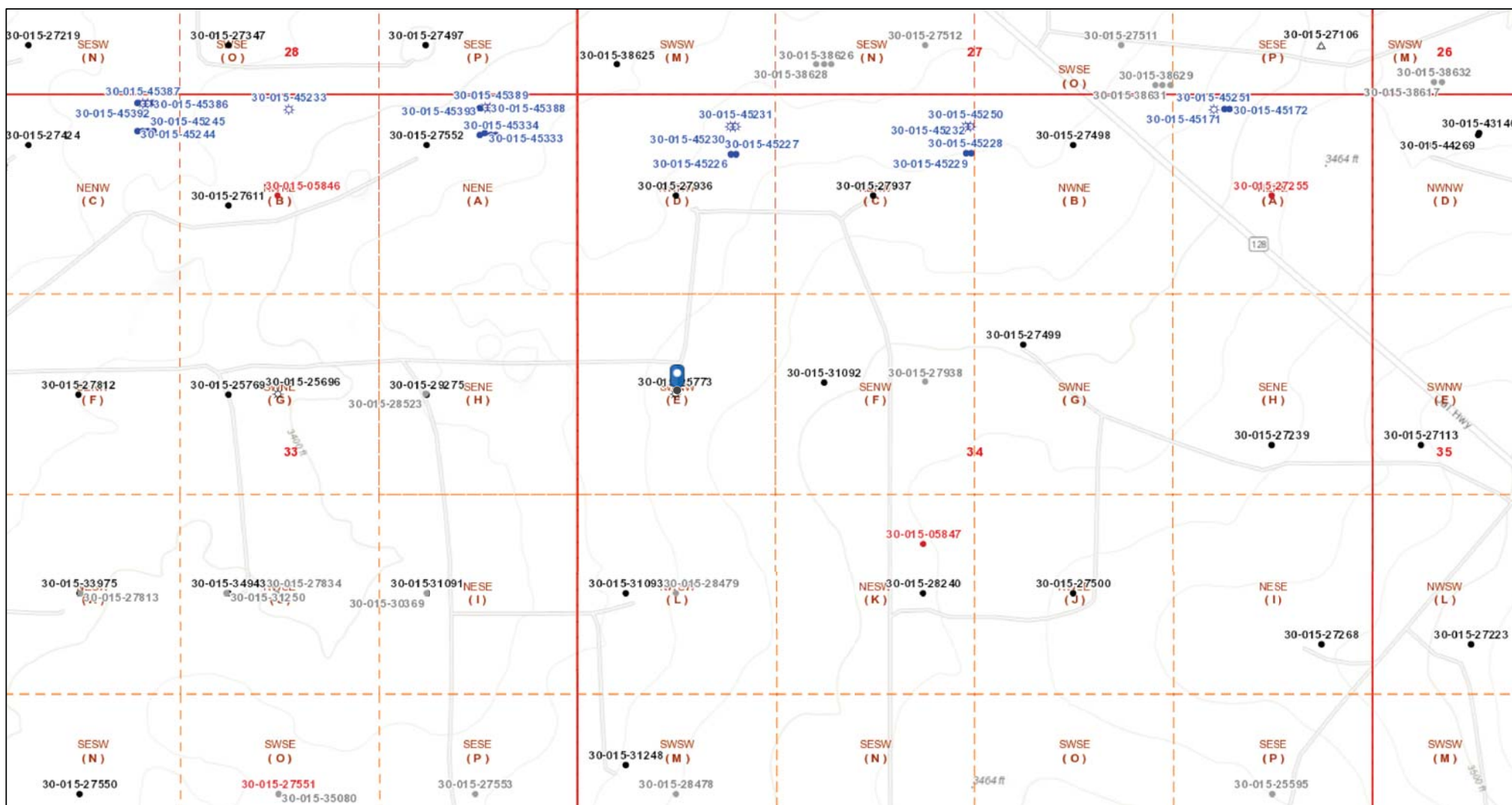
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2018-12-13 17:43:35 EST

0.49 0.41 nadww01



Sterling Silver 34 Fed #2 CTB, TOPO Map with Water Features



1/22/2019 1:59:23 PM

1:9,028

- Well Locations - Small Scale**
- Active
 - New
 - Plugged
 - Cancelled
 - Temporarily Abandoned

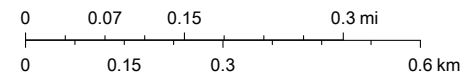
- Well Locations - Large Scale**
- Miscellaneous
 - CO2 Active
 - CO2 Cancelled
 - CO2 New
 - CO2 Plugged
 - CO2 Temporarily Abandoned

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

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

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

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





Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, EPA, USDA, OCD, BLM

Oxy, Sterling Silver 34 Federal #2 CTB

Leak date: 12/29/18
Eddy County, NM
2RP-5176

BLM CAVE KARST MAP

Legend

-  Leak Area
-  Low potential



Google Earth

© 2018 Google



700 ft

National Flood Hazard Layer FIRMette



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 D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
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 **12/13/2018 at 5:56:32 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.

32°16'2.48"N



USGS The National Map: Orthoimagery. Data refreshed October 2017.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

32°15'32.06"N

103°46'0.04"W

Laboratory Analytical Results Summary
Sterling Silver 34 Federal #2 CTB (12/29/18)

		Sample ID	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	2/5/19	2/5/19
			mg/kg	mg/kg
Benzene	BTEX 8021B		<2.00	<0.050
Toluene	BTEX 8021B		<2.00	<0.050
Ethylbenzene	BTEX 8021B		<2.00	<0.050
Total Xylenes	BTEX 8021B		39.1	<0.150
Total BTEX	BTEX 8021B		39.1	<0.300
Chloride	SM4500Cl-B		32	112
GRO	TPH 8015M		3510	<10.0
DRO	TPH 8015M		11500	70.5
EXT DRO	TPH 8015M		1420	39.6

		Sample ID	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	2/5/19	2/5/19
			mg/kg	mg/kg
Benzene	BTEX 8021B		<2.00	<0.050
Toluene	BTEX 8021B		2.65	<0.050
Ethylbenzene	BTEX 8021B		4.56	<0.050
Total Xylenes	BTEX 8021B		62	<0.150
Total BTEX	BTEX 8021B		69.2	<0.300
Chloride	SM4500Cl-B		48	80
GRO	TPH 8015M		4550	<10.0
DRO	TPH 8015M		13900	91
EXT DRO	TPH 8015M		1780	54.4

		Sample ID	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	2/5/19	2/5/19
			mg/kg	mg/kg
Benzene	BTEX 8021B		<2.00	<0.050
Toluene	BTEX 8021B		2.55	<0.050
Ethylbenzene	BTEX 8021B		5.31	<0.050
Total Xylenes	BTEX 8021B		36.9	<0.150
Total BTEX	BTEX 8021B		44.8	<0.300
Chloride	SM4500Cl-B		32	112
GRO	TPH 8015M		3740	<10.0
DRO	TPH 8015M		13100	94.5
EXT DRO	TPH 8015M		1640	57

		Sample ID	SP4 @ SURFACE	SP4 @ 1'
Analyte	Method	Date	2/5/19	2/5/19
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.500	<0.050
Toluene	BTEX 8021B		1.47	<0.050
Ethylbenzene	BTEX 8021B		3.8	<0.050
Total Xylenes	BTEX 8021B		39.9	<0.150
Total BTEX	BTEX 8021B		45.2	<0.300
Chloride	SM4500Cl-B		288	80
GRO	TPH 8015M		2690	<10.0
DRO	TPH 8015M		9660	58.3
EXT DRO	TPH 8015M		1220	38.1

		Sample ID	SP5 @ SURFACE	SP5 @ 1'
Analyte	Method	Date	2/5/19	2/5/19
			mg/kg	mg/kg
Benzene	BTEX 8021B		<1.00	<0.050
Toluene	BTEX 8021B		<1.00	<0.050
Ethylbenzene	BTEX 8021B		2.77	<0.050
Total Xylenes	BTEX 8021B		16.4	<0.150
Total BTEX	BTEX 8021B		19.2	<0.300
Chloride	SM4500Cl-B		3320	80
GRO	TPH 8015M		1570	<10.0
DRO	TPH 8015M		8840	48
EXT DRO	TPH 8015M		1180	25.2

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	SOUTH @ SURFACE	WEST @ SURFACE
Analyte	Method	Date	2/5/19	2/5/19	2/5/19	2/5/19
			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	SM4500Cl-B		112	80	64	96
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

February 14, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STERLING SILVER 34 FED 2

Enclosed are the results of analyses for samples received by the laboratory on 02/07/19 15:00.

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/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,



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:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 1 @ SURFACE (H900500-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	<2.00	2.00	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	<2.00	2.00	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	39.1	6.00	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTX	39.1	12.0	02/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

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	02/12/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	3510	50.0	02/09/2019	ND	200	99.8	200	1.54	QM-07	
DRO >C10-C28*	11500	50.0	02/09/2019	ND	220	110	200	1.96	QM-07	
EXT DRO >C28-C36	1420	50.0	02/09/2019	ND						

Surrogate: 1-Chlorooctane 168 % 41-142

Surrogate: 1-Chlorooctadecane 337 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 1 @ 1' (H900500-02)

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	02/11/2019	ND	2.28	114	2.00	2.27		
Toluene*	<0.050	0.050	02/11/2019	ND	2.17	109	2.00	1.35		
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	2.14		
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.41	107	6.00	2.05		
Total BTX	<0.300	0.300	02/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/12/2019	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	02/09/2019	ND	200	99.8	200	1.54	
DRO >C10-C28*	70.5	10.0	02/09/2019	ND	220	110	200	1.96	
EXT DRO >C28-C36	39.6	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 70.1 % 41-142

Surrogate: 1-Chlorooctadecane 73.5 % 37.6-147

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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:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 2 @ SURFACE (H900500-03)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	2.65	2.00	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	4.56	2.00	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	62.0	6.00	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTX	69.2	12.0	02/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/12/2019	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

Surrogate: 1-Chlorooctane 192 % 41-142

Surrogate: 1-Chlorooctadecane 384 % 37.6-147

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Cliff Brunson
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Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 2 @ 1' (H900500-04)

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	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	<0.050	0.050	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTX	<0.300	0.300	02/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/12/2019	ND	432	108	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	02/09/2019	ND	200	99.8	200	1.54	
DRO >C10-C28*	91.0	10.0	02/09/2019	ND	220	110	200	1.96	
EXT DRO >C28-C36	54.4	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 66.3 % 41-142

Surrogate: 1-Chlorooctadecane 70.2 % 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:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 3 @ SURFACE (H900500-05)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	2.55	2.00	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	5.31	2.00	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	36.9	6.00	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTX	44.8	12.0	02/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	02/12/2019	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane 187 % 41-142

Surrogate: 1-Chlorooctadecane 377 % 37.6-147

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Hobbs NM, 88241
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Received:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 3 @ 1' (H900500-06)

BTEx 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	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	<0.050	0.050	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTEX	<0.300	0.300	02/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/12/2019	ND	432	108	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	02/09/2019	ND	200	99.8	200	1.54	
DRO >C10-C28*	94.5	10.0	02/09/2019	ND	220	110	200	1.96	
EXT DRO >C28-C36	57.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 69.1 % 41-142

Surrogate: 1-Chlorooctadecane 72.3 % 37.6-147

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Fax To: (575) 397-0397

Received:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 4 @ SURFACE (H900500-07)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/12/2019	ND	2.28	114	2.00	2.27	
Toluene*	1.47	0.500	02/12/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	3.80	0.500	02/12/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	39.9	1.50	02/12/2019	ND	6.41	107	6.00	2.05	
Total BTEx	45.2	3.00	02/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/12/2019	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane		150 %	41-142							
Surrogate: 1-Chlorooctadecane		287 %	37.6-147							

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Received:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 4 @ 1' (H900500-08)

BTEx 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	02/14/2019	ND	2.28	114	2.00	2.27	
Toluene*	<0.050	0.050	02/14/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	<0.050	0.050	02/14/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	<0.150	0.150	02/14/2019	ND	6.41	107	6.00	2.05	
Total BTEX	<0.300	0.300	02/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/12/2019	ND	432	108	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	02/09/2019	ND	200	99.8	200	1.54	
DRO >C10-C28*	58.3	10.0	02/09/2019	ND	220	110	200	1.96	
EXT DRO >C28-C36	38.1	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 75.3 % 41-142

Surrogate: 1-Chlorooctadecane 78.2 % 37.6-147

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Fax To: (575) 397-0397

Received:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 5 @ SURFACE (H900500-09)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	<1.00	1.00	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	2.77	1.00	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	16.4	3.00	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTEX	19.2	6.00	02/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	02/12/2019	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1570	50.0	02/09/2019	ND	200	99.8	200	1.54		
DRO >C10-C28*	8840	50.0	02/09/2019	ND	220	110	200	1.96		
EXT DRO >C28-C36	1180	50.0	02/09/2019	ND						

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 274 % 37.6-147

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Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SP 5 @ 1' (H900500-10)

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	02/11/2019	ND	2.28	114	2.00	2.27		
Toluene*	<0.050	0.050	02/11/2019	ND	2.17	109	2.00	1.35		
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	2.14		
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.41	107	6.00	2.05		
Total BTX	<0.300	0.300	02/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/12/2019	ND	432	108	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	02/09/2019	ND	200	99.8	200	1.54	
DRO >C10-C28*	48.0	10.0	02/09/2019	ND	220	110	200	1.96	
EXT DRO >C28-C36	25.2	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 61.1 % 41-142

Surrogate: 1-Chlorooctadecane 63.8 % 37.6-147

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Hobbs NM, 88241
Fax To: (575) 397-0397

Received:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: NORTH @ SURFACE (H900500-11)

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	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	<0.050	0.050	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTX	<0.300	0.300	02/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/12/2019	ND	432	108	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	02/09/2019	ND	200	99.8	200	1.54	
DRO >C10-C28*	<10.0	10.0	02/09/2019	ND	220	110	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	02/09/2019	ND					

Surrogate: 1-Chlorooctane 70.9 % 41-142

Surrogate: 1-Chlorooctadecane 73.2 % 37.6-147

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Fax To: (575) 397-0397

Received:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: EAST @ SURFACE (H900500-12)

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	02/11/2019	ND	2.28	114	2.00	2.27	
Toluene*	<0.050	0.050	02/11/2019	ND	2.17	109	2.00	1.35	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	2.12	106	2.00	2.14	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	6.41	107	6.00	2.05	
Total BTX	<0.300	0.300	02/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/12/2019	ND	432	108	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	02/10/2019	ND	200	99.8	200	1.54	
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	220	110	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND					

Surrogate: 1-Chlorooctane 69.4 % 41-142

Surrogate: 1-Chlorooctadecane 73.0 % 37.6-147

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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:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: SOUTH @ SURFACE (H900500-13)

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	02/12/2019	ND	1.92	96.0	2.00	0.0199	
Toluene*	<0.050	0.050	02/12/2019	ND	1.82	90.8	2.00	0.206	
Ethylbenzene*	<0.050	0.050	02/12/2019	ND	1.79	89.5	2.00	0.191	
Total Xylenes*	<0.150	0.150	02/12/2019	ND	5.36	89.3	6.00	0.427	
Total BTX	<0.300	0.300	02/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/12/2019	ND	432	108	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	02/10/2019	ND	200	99.8	200	1.54	
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	220	110	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND					

Surrogate: 1-Chlorooctane 68.8 % 41-142

Surrogate: 1-Chlorooctadecane 69.9 % 37.6-147

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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:	02/07/2019	Sampling Date:	02/05/2019
Reported:	02/14/2019	Sampling Type:	Soil
Project Name:	STERLING SILVER 34 FED 2	Sampling Condition:	Cool & Intact
Project Number:	(12-29-18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: WEST @ SURFACE (H900500-14)

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	02/10/2019	ND	2.18	109	2.00	0.999	
Toluene*	<0.050	0.050	02/10/2019	ND	2.15	108	2.00	0.521	
Ethylbenzene*	<0.050	0.050	02/10/2019	ND	2.12	106	2.00	0.258	
Total Xylenes*	<0.150	0.150	02/10/2019	ND	6.20	103	6.00	1.28	
Total BTX	<0.300	0.300	02/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/12/2019	ND	432	108	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	02/10/2019	ND	200	99.8	200	1.54	
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	220	110	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND					

Surrogate: 1-Chlorooctane 72.1 % 41-142

Surrogate: 1-Chlorooctadecane 77.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celey D. Keene, Lab Director/Quality Manager



• CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST															
Project Manager: Cliff Brunson				P.O. #:				<div>TPH Extended</div> <div>BTEX</div> <div>CI</div>															
Address: P.O. Box 805				Company: Oxy																			
City: Hobbs State: NM Zip: 88241				Attn: W. Dittrich																			
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																			
Project #: Project Owner: Oxy				City:																			
Project Name: Sterling Silver 34 Fed 2 - 12-29-18				State: Zip:																			
Project Location:				Phone #:																			
Sampler Name: Price Brunson				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING													
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL: OTHER:		DATE TIME													
H9DD500																							
1		SP1 @ SURFACE		G 1						2-5-19 9:20 AM													
2		SP1 @ 1'								2-5-19 9:50 AM													
3		SP2 @ SURFACE								2-5-19 10:10 AM													
4		SP2 @ 1'								2-5-19 10:30 AM													
5		SP3 @ SURFACE								2-5-19 11:00 AM													
6		SP3 @ 1'								2-5-19 11:30 AM													
7		SP4 @ SURFACE								2-5-19 12:00 PM													
8		SP4 @ 1'								2-5-19 1:00 PM													
9		SP5 @ SURFACE								2-5-19 1:20 PM													
10		SP5 @ 1'								2-5-19 1:40 PM													
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Relinquished By: [Signature]				Date: 2/17/17		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:									
Relinquished By:				Time: 3:00pm						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:									
Relinquished By:				Date:		Received By:				REMARKS:													
Relinquished By:				Time:																			
Delivered By: (Circle One)						Sample Condition				CHECKED BY:													
Sampler - UPS - Bus - Other:						Cool Intact				(Initials)													
1.5c #97						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				70.													

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**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH Extended</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">C1</div> </div>																	
Address: P.O. Box 805				Company: <u>Oxy</u>																					
City: Hobbs		State: NM Zip: 88241		Attn: <u>W. Dietrich</u>																					
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:																					
Project #:		Project Owner: Oxy		City:																					
Project Name: Sterling Silver 34 Fed 2 - 12-29-18				State: Zip:																					
Project Location:				Phone #:																					
Sampler Name: Price Brunson				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		MATRIX		PRESERV.		SAMPLING															
						GROUNDWATER																			
						WASTEWATER																			
						SOIL																			
						OIL																			
						SLUDGE																			
						OTHER :																			
						ACID/BASE:																			
						ICE / COOL																			
						OTHER :																			
										DATE		TIME													
H900500																									
11 NORTH @ SURFACE				6								3-5-19		2:00 PM											
12 EAST @ SURFACE				1								3-5-19		2:10 PM											
13 SOUTH @ SURFACE				1								3-5-19		2:20 PM											
14 WEST @ SURFACE				1								3-5-19		2:30 PM											

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Relinquished By: <u>[Signature]</u>		Date: <u>7/7/14</u>		Received By: <u>[Signature]</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <u>3:20 PM</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <u>1.5c #97</u>				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		(Initials) <u>TO</u>			

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