

Form C-141

Page 6

State of New Mexico  
Oil Conservation Division

Incident ID	NAB1711829191
District RP	
Facility ID	
Application ID	


## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 2-4-22  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: OCD Date: 2/04/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 9/15/2022  
Printed Name: Ashley Maxwell Title: Environmental Specialist

# Closure Report

## Site Description

Site Name:	Oxy USA
Company:	Simpson CDM Com #1H CTB
Legal Description:	U/L A, Section 29, T21S, R27E
County:	Eddy County, NM
GPS Coordinates:	N 32.45662 W-104.20454

## Release Data

Date of Release:	04/23/2017
Type of Release:	Produced water
Source of Release:	3 inch steel water line
Volume of Release:	40 bbls
Volume Recovered:	35 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the entire leak area to a depth of 2.5 feet. Backfill the site with clean soil.	
Remediation Activities:	04/26/2018 to 05/07/2018	
Plan Sent to OCD:	09/11/2017	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	09/20/2017	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

## Supporting Documentation

Initial C-141	Signed 04/25/2017
Final C-141	Upon completion
Site Diagram	April 2017
Groundwater Plot	<50'
TOPO Maps	April 2017
Lab Summary	05/03/2017, 05/17/2017-05/18/2017
Lab Analysis	05/03/2017, 05/17/2017-05/18/2017
Correspondence	Request and approval of remediation plan via email

## Request for Closure

Based on the completion of the remediation plan, Oxy requests closure approval from NMOCD.

Wade Dittrich, Environmental Specialist, Oxy USA

05/21/2018

## NM OIL CONSERVATION

ARTESIA DISTRICT

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

APR 25 2017

Form C-141  
Revised April 3, 2017

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

## Release Notification and Corrective Action

**DAB1711829191** **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company	OXY USA WTP LP <b>192463</b>	Contact	CASEY L SUMMERS
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-513-8289
Facility Name	SIMPSON CDM COM #1H CTB	Facility Type	CTB
Surface Owner	FEE	Mineral Owner	FEE
		API No.	30-015-42012

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	29	21S	27E	480	NORTH	310	EAST	EDDY

Latitude 32.4569092 Longitude -104.2045975 NAD83

## NATURE OF RELEASE

Type of Release	PRODUCED WATER	Volume of Release	40 bbls	Volume Recovered	35 bbls
Source of Release	3 INCH STEEL WATER LINE	Date and Hour of Occurrence	4/23/2017	Date and Hour of Discovery	4/24/2017
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required				
By Whom?	CASEY L SUMMERS	If YES, To Whom?	MIKE BRATCHER-NMOCD; CYSTAL WEAVER-NMOCD;		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
If YES, Volume Impacting the Watercourse.					
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken.*					
Spill caused by a failure in a 3 inch steel water line from the heater treater to the water tank. The failed line was replaced. 35 bbls of free fluids was recovered by vacuum truck.					
Describe Area Affected and Cleanup Action Taken.*					
The affected area is approximately 149 x 8 FT (measurements are subject to change with future GPS track). Remediation will be completed in accordance with a remediation plan approved by the NMOCD.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.					
Signature:	<b>OIL CONSERVATION DIVISION</b>				
Printed Name:	CASEY L SUMMERS	Approved by Environmental Specialist: <i>Mike Bratcher</i>			
Title:	ENVIRONMENTAL ADVISOR	Approval Date:	4/26/17	Expiration Date:	NIA
E-mail Address:	casey.summers@oxy.com	Conditions of Approval:			
Date:	4-25-17	See attached			
Phone:	575-513-8289	Attached <input type="checkbox"/>			

\* Attach Additional Sheets If Necessary

2AP-4188

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 4/25/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number **2RP-4188** has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

*The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 5/25/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**

OCD Environmental Bureau Chief  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
505-476-3465  
jim.griswold@state.nm.us

**Bratcher, Mike, EMNRD**

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**From:** Casey\_Summers@oxy.com  
**Sent:** Tuesday, April 25, 2017 8:26 AM  
**To:** Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Jennifer\_Hudgens@oxy.com  
**Cc:** cbrunson@bbcinternational.com; kswinney@bbcinternational.com;  
kathy@bbcinternational.com; jgilkey@bbcinternational.com  
**Subject:** RE: Simpson CDM 1H CTB  
**Attachments:** SIMPSON CDM 1H CTB - INITIAL C-141.pdf

All,  
Please find the initial C141 for the Simpson CDM 1H CTB attached.

Please let me know if you have any questions.

Casey Summers  
O: (575)-628-4152  
C: (575)-513-8289

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**From:** Summers, Casey L  
**Sent:** Monday, April 24, 2017 10:03 AM  
**To:** 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; 'Weaver, Crystal, EMNRD' <Crystal.Weaver@state.nm.us>; 'Tucker, Shelly' <stucker@blm.gov>; Hudgens, Jennifer A <Jennifer\_Hudgens@oxy.com>  
**Cc:** 'Cliff Brunson' <cbrunson@bbcinternational.com>; 'Ken Swinney' <kswinney@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>  
**Subject:** Simpson CDM 1H CTB

All,  
This is to inform you that Oxy Permian had a release in Eddy County at the Simpson CDM 1H CTB on 4/23/2017.

- **Release Location:** Legal A-29-21S-27E, API: 30-015-42012
- **Release Volume:** 0 bbls of Oil and 40 bbls of Produced Water
- **Recovered:** 35 bbls recovered
- **Cause of Release:** 3 INCH STEEL WATER LINE FROM THE HEATER TREATER TO WATER TANK FAILED
- **Approximate Area impacted by release:** 60Lx3W FT (measurements are subject to change with future GPS track)
- **GPS Coordinates and Driving Direction:** 32.4569092,-104.2045975, FROM CARLSBAD GO EAST ON HOBBS HWY 4 MILES, GO NORTH ON TRUCK BYPASS FOR 1.5 MILE, TAKE LEFT AT FIRST CATTLEGUARD TO 1ST INTERSECTION, TURN WEST GO .5 MILE TO BATTERY ON LEFT

Please let me know if you have any questions.

Casey Summers  
O: (575)-628-4152  
C: (575)-513-8289

## Bratcher, Mike, EMNRD

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**Cc:** cbrunson@bbcinternational.com; kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com  
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Please let me know if you have any questions.

Casey Summers  
O: (575)-628-4152  
C: (575)-513-8289

# Oxy, Simpson CDM Com #1H CTB

Leak date: 04/23/2017  
Eddy County, NM  
API# 30-015-42012  
2RP-4188

## Legend

- ☆ Cardinal sample points, hand auger
- ◻ Leak Area, 2.5' Excavation
- Sample points, hand auger



Google Earth

© 2017 Google

100 ft



Oxy, Simpson CDM Com #1H CTB

Sample points, hand auger

SP1, N 32.45667 W-104.20382

SP2, N 32.45658 W-104.20392

SP3, N 32.45658 W-104.20408

SP4, N 32.45658 W-104.20423

SP5, N 32.45658 W-104.20442

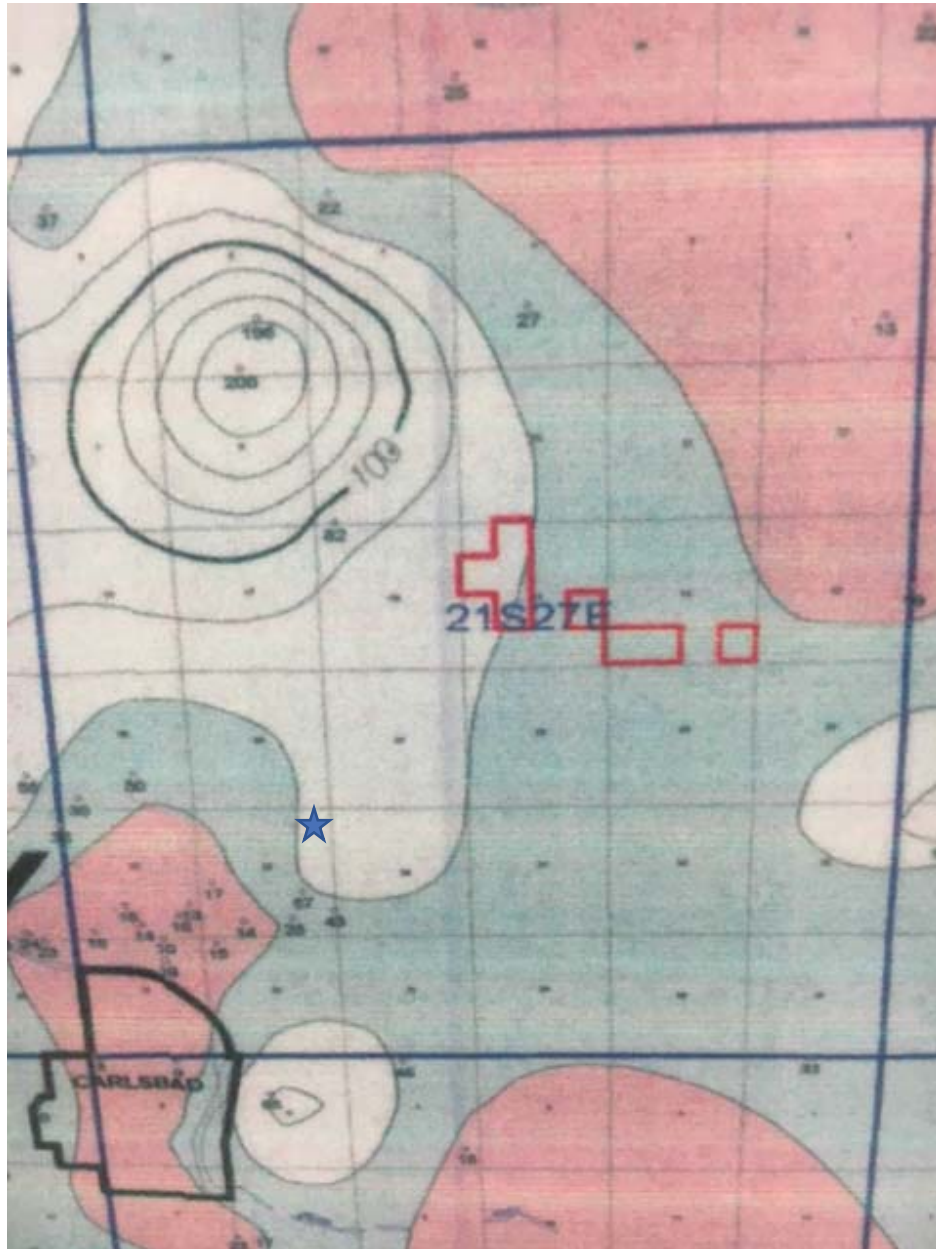
NORTH, N 32.45676 W-104.20381

SOUTH, N 32.45654 W-104.20407

EAST, N 32.45665 W-104.20377

WEST, N 32.45657 W-104.20449

**Oxy, Simpson CDM Com #1H CTB**  
**U/L A, Section 29, T21S T27E**  
**Groundwater: <50'**





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C 01875</a>		C	ED	4	1	1	28	21S	27E	575157	3591204*	<input type="checkbox"/>	509	170	40 130
<a href="#">C 01449</a>		C	ED	1	3	3	21	21S	27E	574950	3591807*	<input type="checkbox"/>	587	108	75 33
<a href="#">C 00096</a>		CUB	ED				29	21S	27E	574063	3590675*	<input type="checkbox"/>	860	91	
<a href="#">C 00779</a>		C	ED				29	21S	27E	574063	3590675*	<input type="checkbox"/>	860	247	18 229
<a href="#">C 00781</a>		C	ED				29	21S	27E	574063	3590675*	<input type="checkbox"/>	860	302	29 273
<a href="#">C 00888</a>		C	ED				29	21S	27E	574063	3590675*	<input type="checkbox"/>	860	270	12 258
<a href="#">C 01709</a>		C	ED				29	21S	27E	574063	3590675*	<input type="checkbox"/>	860	42	15 27
<a href="#">C 00925</a>		C	ED	1	3		28	21S	27E	575070	3590498*	<input type="checkbox"/>	900	300	46 254
<a href="#">C 01653</a>		C	ED	4	1		29	21S	27E	573856	3590882*	<input type="checkbox"/>	901	60	20 40
<a href="#">C 00688</a>		C	ED	2	2	3	29	21S	27E	573959	3590579*	<input type="checkbox"/>	1001	90	31 59
<a href="#">C 01087</a>		C	ED			1	29	21S	27E	573654	3591077*	<input type="checkbox"/>	1026	310	16 294
<a href="#">C 00652</a>			ED	2	4	4	29	21S	27E	574771	3590188*	<input type="checkbox"/>	1115	458	
<a href="#">C 02645</a>		C	ED	2	4	4	29	21S	27E	574771	3590188*	<input type="checkbox"/>	1115	195	45 150
<a href="#">C 02837</a>		C	ED	2	4	4	29	21S	27E	574771	3590188*	<input type="checkbox"/>	1115	179	155 24
<a href="#">C 03614 POD1</a>		CUB	ED	1	2	3	29	21S	27E	573836	3590510	<input type="checkbox"/>	1136	228	30 198
<a href="#">C 01321</a>		C	LE	2	3		29	21S	27E	573860	3590480*	<input type="checkbox"/>	1141	270	60 210
<a href="#">C 01755</a>		C	ED	2	3		29	21S	27E	573860	3590480*	<input type="checkbox"/>	1141	320	17 303
<a href="#">C 02045</a>		C	ED	2	3		29	21S	27E	573860	3590480*	<input type="checkbox"/>	1141	80	29 51
<a href="#">C 00552</a>		C	ED	1	2	3	29	21S	27E	573759	3590579	<input type="checkbox"/>	1149	240	24 216
<a href="#">C 00673</a>		C	ED	2	3	4	29	21S	27E	574367	3590182*	<input type="checkbox"/>	1152	309	30 279
<a href="#">C 01644</a>		C	ED	1	1		29	21S	27E	573450	3591278*	<input type="checkbox"/>	1206	66	35 31
<a href="#">C 01650</a>		C	ED	4	4		29	21S	27E	574672	3590089*	<input type="checkbox"/>	1209	45	
<a href="#">C 00222</a>			ED	1	3	4	29	21S	27E	574167	3590182*	<input type="checkbox"/>	1218	297	
<a href="#">C 00767</a>			ED	1	3	4	29	21S	27E	574167	3590182*	<input type="checkbox"/>	1218	150	26 124
<a href="#">C 00725</a>		C	ED	4	3	1	29	21S	27E	573552	3590775*	<input type="checkbox"/>	1221	222	22 200
<a href="#">C 03903 POD1</a>		CUB	ED	4	3	1	29	21S	27E	573540	3590712	<input type="checkbox"/>	1260	165	
<a href="#">C 01047</a>			ED	3	1		29	21S	27E	573453	3590876*	<input type="checkbox"/>	1274	288	256 32
<a href="#">C 01662</a>		C	ED	3	1		29	21S	27E	573453	3590876*	<input type="checkbox"/>	1274	40	
<a href="#">C 00188</a>		C	ED	3	3		28	21S	27E	575076	3590094*	<input type="checkbox"/>	1275	280	
<a href="#">C 01947</a>		C	ED	3	4		29	21S	27E	574268	3590083*	<input type="checkbox"/>	1275	43	18 25

<a href="#">C 01553</a>	C	ED	3	1	1	29	21S	27E	573349	3591177*	<input type="checkbox"/>	1312	84		
<a href="#">C 01649</a>	C	ED	3	1	1	29	21S	27E	573349	3591177*	<input type="checkbox"/>	1312	88	25	63
<a href="#">C 02170</a>	C	ED	1	4	3	28	21S	27E	575375	3590196*	<input type="checkbox"/>	1315	253	60	193
<a href="#">C 00943</a>	C	ED	2	4	3	29	21S	27E	573963	3590177*	<input type="checkbox"/>	1317	280	27	253
<a href="#">C 01174</a>	C	ED	1	3	1	29	21S	27E	573352	3590975*	<input type="checkbox"/>	1343	280	27	253
<a href="#">C 01299</a>	C	ED	1	3	1	29	21S	27E	573352	3590975*	<input type="checkbox"/>	1343	284	23	261
<a href="#">C 03171</a>	C	ED	3	2	3	29	21S	27E	573705	3590267	<input type="checkbox"/>	1402	100	31	69
<a href="#">C 00741</a>	C	ED	3	3	1	29	21S	27E	573352	3590775*	<input type="checkbox"/>	1404			
<a href="#">C 01069</a>	C	ED	3	3	1	29	21S	27E	573352	3590775*	<input type="checkbox"/>	1404	355	20	335
<a href="#">C 01248</a>	C	ED	3	3	1	29	21S	27E	573352	3590775*	<input type="checkbox"/>	1404	240	19	221
<a href="#">C 00634</a>	C	ED	4	1	3	29	21S	27E	573555	3590373*	<input type="checkbox"/>	1437	122	17	105
<a href="#">C 01155</a>	C	ED		1	3	29	21S	27E	573456	3590474*	<input type="checkbox"/>	1455	290	22	268
<a href="#">C 00606</a>	C	ED	1	1	3	29	21S	27E	573355	3590573*	<input type="checkbox"/>	1489	252	8	244
<a href="#">C 00749</a>	C	ED	4	4	3	29	21S	27E	573963	3589977*	<input type="checkbox"/>	1491			
<a href="#">C 00566</a>	C	ED	2	2	2	32	21S	27E	574773	3589785*	<input type="checkbox"/>	1517	323	18	305
<a href="#">C 00632</a>	C	ED	2	2	2	32	21S	27E	574773	3589785*	<input type="checkbox"/>	1517	270	30	240
<a href="#">C 00665</a>	CUB	ED	2	4	2	30	21S	27E	573150	3590961*	<input type="checkbox"/>	1543	40		
<a href="#">C 00668</a>	C	ED	2	4	2	30	21S	27E	573150	3590961*	<input type="checkbox"/>	1543	280	12	268
<a href="#">C 01165</a>		ED	2	4	2	30	21S	27E	573150	3590961*	<input type="checkbox"/>	1543	180	26	154
<a href="#">C 00660</a>	C	ED	2	1	2	32	21S	27E	574368	3589780*	<input type="checkbox"/>	1545	325	14	311
<a href="#">C 00337</a>	C	ED	1	1	2	32	21S	27E	574168	3589780*	<input type="checkbox"/>	1594	318	40	278
<a href="#">C 01038</a>	C	ED	3	4	3	29	21S	27E	573763	3589977*	<input type="checkbox"/>	1594	293	14	279
<a href="#">C 01096</a>	C	ED	3	4	3	29	21S	27E	573763	3589977*	<input type="checkbox"/>	1594	306	17	289
<a href="#">C 01101</a>	C	ED	3	4	3	29	21S	27E	573763	3589977*	<input type="checkbox"/>	1594	315	17	298
<a href="#">C 01068</a>	C	ED	3	1	3	29	21S	27E	573355	3590373*	<input type="checkbox"/>	1596	350	20	330
<a href="#">C 02530</a>	C	ED	3	1	3	29	21S	27E	573355	3590373*	<input type="checkbox"/>	1596	30	17	13
<a href="#">C 01175</a>		ED	4	4	2	30	21S	27E	573150	3590761*	<input type="checkbox"/>	1598	100	19	81
<a href="#">C 03484 POD1</a>	C	ED	2	4	4	19	21S	27E	573071	3591694	<input type="checkbox"/>	1633	95	42	53
<a href="#">C 01157</a>	C	ED		4	2	30	21S	27E	573051	3590862*	<input type="checkbox"/>	1663	292	17	275
<a href="#">C 02217</a>	CUB	ED		4	2	30	21S	27E	573051	3590862*	<input type="checkbox"/>	1663	270	17	253

Average Depth to Water: **33 feet**Minimum Depth: **8 feet**Maximum Depth: **256 feet**

Record Count: 60

**UTMNAD83 Radius Search (in meters):****Easting (X):** 574656**Northing (Y):** 3591298**Radius:** 1700

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/27/17 10:45 AM

WATER COLUMN/ AVERAGE DEPTH TO

WATER

### Public Land Survey System (PLSS)

☐ Q64:  Q16:  Q4:  Sec:  Tws:  Rng:

### State Plane Coordinate System - NAD27

☐ X:  ft Y:  ft Zone:

### State Plane Coordinate System - NAD83

☐ X:  ft Y:  ft Zone:

### Degrees/Minutes/Seconds

☐ Longitude (X): Degrees:  ° Minutes:  ' Seconds:  "

Latitude (Y): Degrees:  ° Minutes:  ' Seconds:  "

### UTM - NAD27

☐ Easting (X):  mtrs Northing (Y):  mtrs Zone:

**SUBMIT**

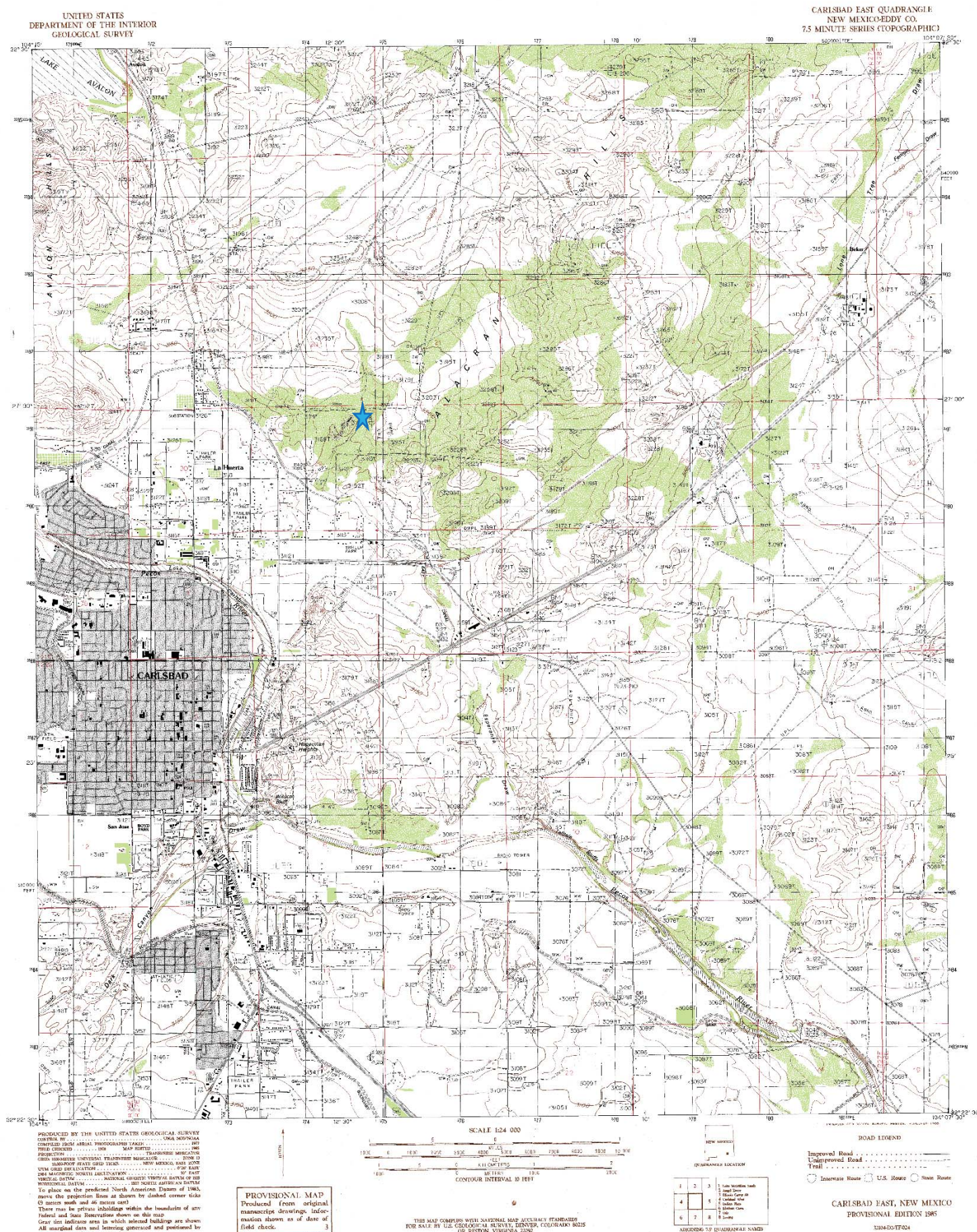
All Conversion Results are displayed as **NAD 1983 UTM Zone 13**

Easting (X):  mtrs Northing (Y):  mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

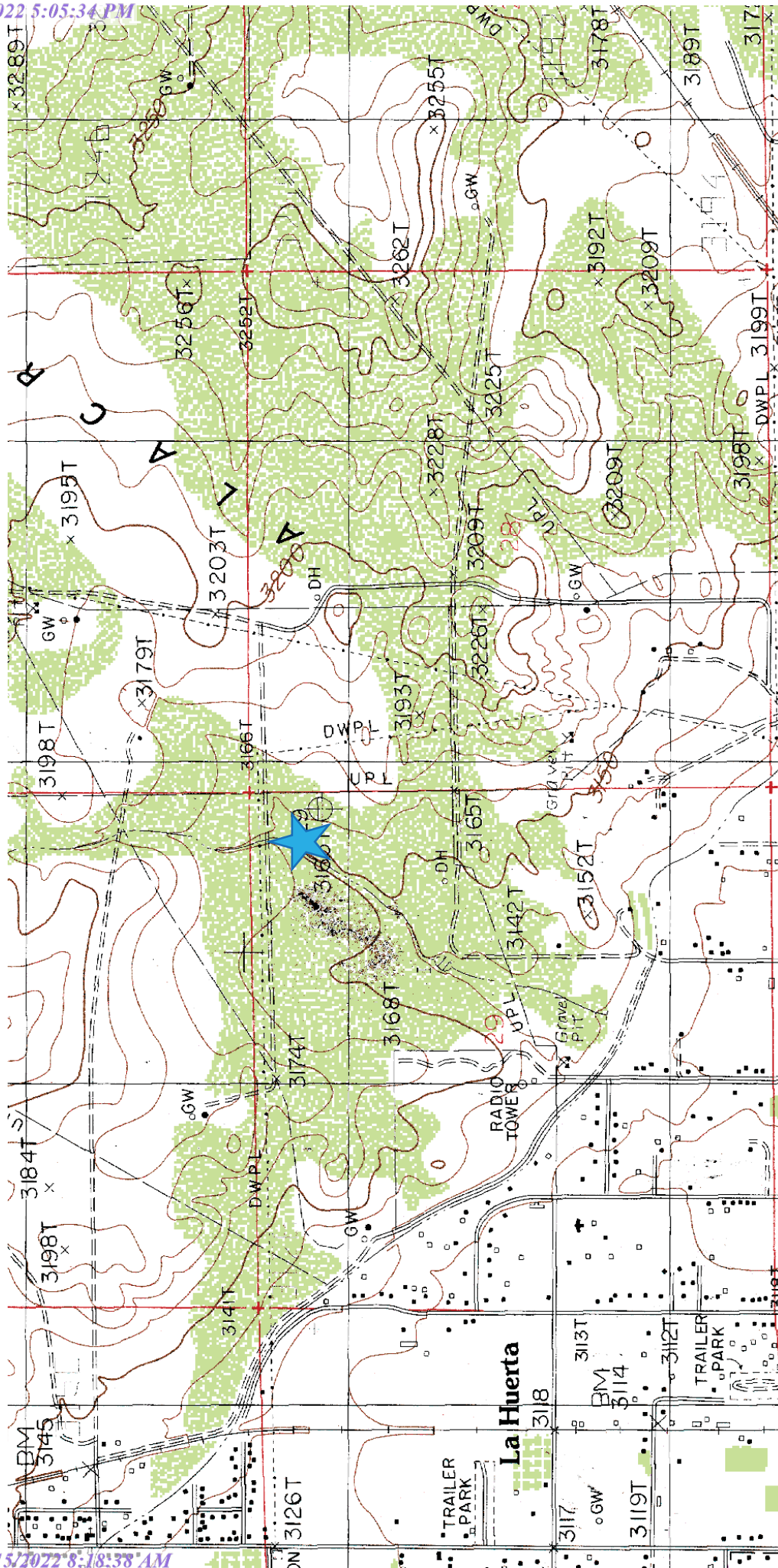
Oxy

## Simpson CDM 1H CTB



# Oxy

## Simpson CDM Com #1H CTB



Laboratory Analytical Results Summary  
Simpson CDM Com #1H

Analyte	Method	Sample Date	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 8'	SP1 @ 13'
			5/3/17	5/17/17	5/17/17	5/17/17	5/17/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		5520	4080	128	16	32
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 8'	SP2 @ 13'
			5/3/17	5/17/17	5/17/17	5/17/17	5/17/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		6640	1380	32	48	16
GRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 8'	SP3 @ 13'
			5/3/17	5/17/17	5/18/17	5/18/17	5/18/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		7440	4040	80	48	64
GRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 8'	SP4 @ 13'
			5/3/17	5/18/17	5/18/17	5/18/17	5/18/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		6800	656	64	80	64
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 8'	SP5 @ 13'
			5/3/17	5/18/17	5/18/17	5/18/17	5/18/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		6720	464	80	192	96
GRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	NORTH @ SURFACE
			5/3/17
			mg/Kg
Benzene	BTEX 8021B		n/a
Toluene	BTEX 8021B		n/a
Ethylbenzene	BTEX 8021B		n/a
Total Xylenes	BTEX 8021B		n/a
Total BTEX	BTEX 8021B		n/a
Chloride	SM4500Cl-B		96
GRO	TPH 8015M		n/a
DRO	TPH 8015M		n/a

Analyte	Method	Sample Date	EAST @ SURFACE
			5/3/17
			mg/Kg
Benzene	BTEX 8021B		n/a
Toluene	BTEX 8021B		n/a
Ethylbenzene	BTEX 8021B		n/a
Total Xylenes	BTEX 8021B		n/a
Total BTEX	BTEX 8021B		n/a
Chloride	SM4500Cl-B		96
GRO	TPH 8015M		n/a
DRO	TPH 8015M		n/a

Analyte	Method	Sample Date	WEST @ SURFACE
			5/3/17
			mg/Kg
Benzene	BTEX 8021B		n/a
Toluene	BTEX 8021B		n/a
Ethylbenzene	BTEX 8021B		n/a
Total Xylenes	BTEX 8021B		n/a
Total BTEX	BTEX 8021B		n/a
Chloride	SM4500Cl-B		112
GRO	TPH 8015M		n/a
DRO	TPH 8015M		n/a

Analyte	Method	Sample Date	SOUTH @ SURFACE
			5/3/17
			mg/Kg
Benzene	BTEX 8021B		n/a
Toluene	BTEX 8021B		n/a
Ethylbenzene	BTEX 8021B		n/a
Total Xylenes	BTEX 8021B		n/a
Total BTEX	BTEX 8021B		n/a
Chloride	SM4500Cl-B		96
GRO	TPH 8015M		n/a
DRO	TPH 8015M		n/a



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

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May 15, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SIMPSON CDM COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 05/08/17 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/08/2017	Sampling Date:	05/03/2017
Reported:	05/15/2017	Sampling Type:	Soil
Project Name:	SIMPSON CDM COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 1' (H701220-01)**

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/15/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/15/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/15/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/15/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	05/09/2017	ND	432	108	400	3.64	

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	05/12/2017	ND	187	93.6	200	1.76	
DRO >C10-C28	<10.0	10.0	05/12/2017	ND	191	95.5	200	0.844	

Surrogate: 1-Chlorooctane 84.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 81.6 % 34.7-157

**Sample ID: SP 2 @ 1' (H701220-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	05/09/2017	ND	432	108	400	3.64	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/08/2017	Sampling Date:	05/03/2017
Reported:	05/15/2017	Sampling Type:	Soil
Project Name:	SIMPSON CDM COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 1' (H701220-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7440	16.0	05/09/2017	ND	432	108	400	3.64	

**Sample ID: SP 4 @ 1' (H701220-04)**

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/13/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/13/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/13/2017	ND	6.23	104	6.00	1.86	
Total BTEx	<0.300	0.300	05/13/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	05/09/2017	ND	432	108	400	3.64		

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	05/12/2017	ND	187	93.6	200	1.76	
DRO >C10-C28	<10.0	10.0	05/12/2017	ND	191	95.5	200	0.844	

Surrogate: 1-Chlorooctane 75.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 79.5 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/08/2017	Sampling Date:	05/03/2017
Reported:	05/15/2017	Sampling Type:	Soil
Project Name:	SIMPSON CDM COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 5 @ 1' (H701220-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6720	16.0	05/09/2017	ND	432	108	400	3.64		

**Sample ID: NORTH @ SURFACE (H701220-06)**

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	05/09/2017	ND	432	108	400	3.64		

**Sample ID: EAST @ SURFACE (H701220-07)**

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	05/09/2017	ND	432	108	400	3.64		

**Sample ID: WEST @ SURFACE (H701220-08)**

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	05/09/2017	ND	432	108	400	3.64	

**Sample ID: SOUTH @ SURFACE (H701220-09)**

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	05/09/2017	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

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.		P.O. #:		BILL TO												ANALYSIS REQUEST																			
Project Manager: Cliff Brunson		Company:		Company: OKY																															
Address: P.O. Box 805		Attn:		Attn: J. J. J.																															
City: Hobbs		Address:		Address: J. J. J.																															
Phone #: 575-397-6388		State: NM		Zip: 88241																															
Project #:		Project Owner:		City:		State:		Zip:																											
Project Name: Simpson CDm Cor #1/H		Project Location: Culbacc		Phone #:		Fax #:																													
Sample Name:		FOR LAB USE ONLY		PRESERV		SAMPLING																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTEX		TPH		CL	
HTD920		SP1e1		C1		1																				5-3		059		X		X		X	
23456789		SP2e1		C1		1																				949		X		X		X			
		SP3e1		C1		1																				1041		X		X		X			
		SP4e1		C1		1																				1157		X		X		X			
		SP5e1		C1		1																				1229		X		X		X			
		SP6e1		C1		1																				1350		X		X		X			
		SP7e1		C1		1																				1415		X		X		X			
		SP8e1		C1		1																				1530		X		X		X			
		SP9e1		C1		1																				1645		X		X		X			
		SP10e1		C1		1																				1730		X		X		X			
		SP11e1		C1		1																				1845		X		X		X			
		SP12e1		C1		1																				1930		X		X		X			
		SP13e1		C1		1																				2045		X		X		X			
		SP14e1		C1		1																				2130		X		X		X			
		SP15e1		C1		1																				2245		X		X		X			
		SP16e1		C1		1																				2330		X		X		X			
		SP17e1		C1		1																				2445		X		X		X			



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

---

May 25, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SIMPSON CDM COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 05/19/17 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	05/19/2017	Sampling Date:	05/17/2017
Reported:	05/25/2017	Sampling Type:	Soil
Project Name:	SIMPSON CDM COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

**Sample ID: SP 1 @ 2' (H701348-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	05/22/2017	ND	448	112	400	7.41	

**Sample ID: SP 1 @ 3' (H701348-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/22/2017	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 8' (H701348-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/22/2017	ND	416	104	400	3.77	

**Sample ID: SP 1 @ 13' (H701348-04)**

Chloride, SM4500CI-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	05/22/2017	ND	416	104	400	3.77	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/19/2017	Sampling Date:	05/17/2017
Reported:	05/25/2017	Sampling Type:	Soil
Project Name:	SIMPSON CDM COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

**Sample ID: SP 2 @ 2' (H701348-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	05/22/2017	ND	416	104	400	3.77		

**Sample ID: SP 2 @ 3' (H701348-06)**

Chloride, SM4500CI-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	05/22/2017	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 8' (H701348-07)**

Chloride, SM4500CI-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	05/22/2017	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 13' (H701348-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/22/2017	ND	416	104	400	3.77		

**Sample ID: SP 3 @ 2' (H701348-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	05/22/2017	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/19/2017	Sampling Date:	05/18/2017
Reported:	05/25/2017	Sampling Type:	Soil
Project Name:	SIMPSON CDM COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

**Sample ID: SP 3 @ 3' (H701348-10)**

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	05/22/2017	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 8' (H701348-11)**

Chloride, SM4500CI-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	05/22/2017	ND	416	104	400	3.77	

**Sample ID: SP 3 @ 13' (H701348-12)**

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	05/22/2017	ND	416	104	400	3.77	

**Sample ID: SP 4 @ 2' (H701348-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	05/22/2017	ND	416	104	400	3.77	

**Sample ID: SP 4 @ 3' (H701348-14)**

Chloride, SM4500Cl-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	05/22/2017	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/19/2017	Sampling Date:	05/18/2017
Reported:	05/25/2017	Sampling Type:	Soil
Project Name:	SIMPSON CDM COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

**Sample ID: SP 4 @ 8' (H701348-15)**

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	05/22/2017	ND	416	104	400	3.77		

**Sample ID: SP 4 @ 13' (H701348-16)**

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	05/22/2017	ND	416	104	400	3.77	

**Sample ID: SP 5 @ 2' (H701348-17)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	05/22/2017	ND	416	104	400	3.77		

**Sample ID: SP 5 @ 3' (H701348-18)**

Chloride, SM4500CI-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	05/22/2017	ND	416	104	400	3.77	

**Sample ID: SP 5 @ 8' (H701348-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/22/2017	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	05/19/2017	Sampling Date:	05/18/2017
Reported:	05/25/2017	Sampling Type:	Soil
Project Name:	SIMPSON CDM COM #1H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

**Sample ID: SP 5 @ 13' (H701348-20)**

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	05/22/2017	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



ARDINAL 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.		P.O. #:		BILL TO										ANALYSIS REQUEST																									
Project Manager: Cliff Brunson		Company: Oxy																																					
Address: P.O. Box 805		Attn:																																					
City: Hobbs		Address:																																					
Phone #: 575-397-6388		City:																																					
Fax #: 575-397-0397		State:																																					
Project #: Project Owner: Oxy		Zip:																																					
Project Name: Simpson Cm Com # 114		Phone #:																																					
Project Location: Carlsbad, NM		Fax #:																																					
Sampler Name: 10																																							
FOR LAB USE ONLY																																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME											
H701342		Sp102		C-1		1		X		X		X		X		X		X		X		X		X		5-17		919		C-1									
01		Sp103		C-1		1		X		X		X		X		X		X		X		X		X		5-17		933		X									
02		00		C-1		1		X		X		X		X		X		X		X		X		X		1015		X		X									
03		13		C-1		1		X		X		X		X		X		X		X		X		X		1101		X		X									
04		Sp202		C-1		1		X		X		X		X		X		X		X		X		X		1115		X		X									
05		00		C-1		1		X		X		X		X		X		X		X		X		X		1122		X		X									
06		13		C-1		1		X		X		X		X		X		X		X		X		X		1140		X		X									
07		00		C-1		1		X		X		X		X		X		X		X		X		X		1215		X		X									
08		Sp302		C-1		1		X		X		X		X		X		X		X		X		X		141		X		X									
09		00		C-1		1		X		X		X		X		X		X		X		X		X		5-18		933		X									
10		00		C-1		1		X		X		X		X		X		X		X		X		X		5-18		933		X									
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Relinquished By: [Signature]		Date: 5-17-17		Time: 2:36pm		Received By: Jennifer Gabley		Date: 5-19-17		Time: 2:50p		Received By: [Signature]		CHECKED BY: (Initials) [Signature]																							
Reinquished By: [Signature]		Date: 5-17-17		Time: 2:36pm		Received By: Jennifer Gabley		Date: 5-19-17		Time: 2:50p		Received By: [Signature]		CHECKED BY: (Initials) [Signature]																									
Delivered By: (Circle One)		Sample Condition		Cool - Intact		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																									
Sampler - UPS - Bus - Other:		-17.10		-17.10		-17.10		-17.10		-17.10		-17.10		-17.10																									

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



ARDINAL 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.		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: Cliff Brunson		Company:		CLY																			
Address: P.O. Box 805		Attn:																					
City: Hobbs		Address:																					
Phone #: 575-397-6388		City:																					
State: NM Zip: 88241		State:																					
Fax #: 575-397-0397		Zip:																					
Project #: 084		Phone #:																					
Project Name: Simpson CDM Corp 1H		Fax #:																					
Project Location: Carlisle Rd, NM		PRESERV																					
Sampler Name: 10		SAMPLING																					
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.																					
11		SP3e 8																					
12		SP4e 13																					
13		SP5e 2																					
14		SP6e 3																					
15		SP7e 13																					
16		SP8e 2																					
17		SP9e 3																					
18		SP10e 13																					
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		SP81e 3																					
		SP82e 13																					
		SP83e 2																					
		SP84e 3																					
		SP85e 13																					

**From:** Bratcher, Mike, EMNRD  
**To:** [Cliff Brunson](#)  
**Cc:** [Wade Dittrich](#); [Jennifer\\_Smith@oxy.com](mailto:Jennifer_Smith@oxy.com); [Weaver, Crystal, EMNRD](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)  
**Subject:** RE: OXY Simpson CDM Com #1H CTB (2RP-4188) - Delineation Workplan  
**Date:** Wednesday, September 20, 2017 10:54:00 AM

---

RE: OXY USA \* Simpson Com 1H \* 2RP-4188 \* DOR: 4/23/17

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled.

Mike Bratcher  
NMOCD District 2  
811 South First Street  
Artesia, NM 88210  
575-748-1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

---

**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Monday, September 11, 2017 7:17 PM  
**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>  
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**Subject:** OXY Simpson CDM Com #1H CTB (2RP-4188) - Delineation Workplan

Mike,

Please find the attached Delineation Workplan and remediation proposal for the OXY Simpson CDM Com #1H CTB (2RP-4188). OXY is requesting that you review this plan and is looking forward to the OCD's approval. Mike, this plan is one we discussed recently.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
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CONDITIONS  
  
Action 78703

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 78703
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	9/15/2022