

**OXY USA, Inc.
Cotton Draw Unit #10
Delineation Report and Work Plan**

**Section 16, T25S, R32E
Lea County, New Mexico**

April 23, 2014



Prepared for:

**OXY USA, Inc.
1017 W Stanolind Road
Hobbs, New Mexico 88240**

By:

**Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510**

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I. Company Contacts

Representative	Company	Telephone	E-mail
Austin Tramell	OXY USA, INC.	575-499-4919	Austin_Tramell@oxy.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by OXY USA, INC to perform site assessment of a release area at the Cotton Draw Unit #10 located in Section 16 of Township 25 South, Range 32 East, Lea County, New Mexico.

According to the C-141 dated April 01, 2014 the cause of release was internal corrosion of a 2" steel production flow line.

III. Surface and Ground Water

The nearest groundwater of record is approximately 7.8 miles north of the site. The New Mexico Office of State Engineer record is in Section 05 Range 32 East and Township 24 South. The reported depth was 380 feet below ground surface (BGS).

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 5,000 ppm Total Petroleum Hydrocarbons (TPH).

Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
RANKING SCORE (TOTAL POINTS)			0

V. Work Performed

On April 3, 2014 SESI was onsite to perform a site assessment. The release area was mapped utilizing a Trimble Juno 3D and site photos were taken.

On April 21, 2014, SESI was onsite to determine vertical extent of contamination using a hand auger to collect samples. SP-1 was taken at the surface and at a depth of 1'

where a hard caliche layer was encountered. Samples were taken at SP-2 at surface and at 1' ft., 2' ft. and 2.5 ft. A hard layer of caliche was encountered the depth of 2.5 ft. Samples were taken at SP-3 at the surface and at 1' ft., 2 ft. and, 2.5 ft. where a hard layer of caliche was encountered. All samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (Cl⁻) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Lab ID	Sample ID	Cl (mg/kg)
Analysis Date:	-	
5-1-2014	Sample Pt 1 @ Surface	20800
5-1-2014	Sample Pt 1 @ 1' BGS	3640
5-1-2014	Sample Pt 2 @ Surface	36800
5-1-2014	Sample Pt 2 @ 1' BGS	1070
5-1-2014	Sample Pt 2 @ 2' BGS	2320
5-1-2014	Sample Pt 2 @ 2'6" BGS	8480
5-1-2014	Sample Pt 3 @ Surface	14700
5-1-2014	Sample Pt 3 @ 1' BGS	3800
5-1-2014	Sample Pt 3 @ 2' BGS	11600
5-1-2014	Sample Pt 3 @ 2'6" BS	12000

On April 22, 2014, SESI, along with Custom Welding were on site to install (4) four test trenches to determine further contamination. Test Trenches samples were taken at 1 ft., 4ft., 5ft and 6 ft. away from the pipelines. A hard layer of caliche was encountered at the 6 ft. All samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs New Mexico and analyzed for Chloride (Cl⁻) (Method SM4500Cl-B). The results of the analysis are presented in the table below:

Lab ID	Sample ID	Cl (mg/kg)
Analysis Date:	-	
5-1-2014	TT-1 @ 3'	2960
5-1-2014	TT-1 @ 4'	528
5-1-2014	TT-1 @ 5'	2200
5-1-2014	TT-1 @ 6'	1500

VI. Action Plan

Due to the extreme depth to groundwater and the hard caliche layer encountered at 2.5 ft. BGS, the following action plan is proposed:

1. All contaminated soil with a chloride concentration over 1,500 PPM will be removed and transported to an approved NMOCD facility for disposal.
2. The excavated area will be backfilled with native soil and returned to natural grade.
3. No further action is necessary.

VII. Figures & Appendices

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Figure 3 – NMOCD Trend Map

Appendix A – Analytical Results
Appendix B – C-141

Figure 1
Vicinity Map

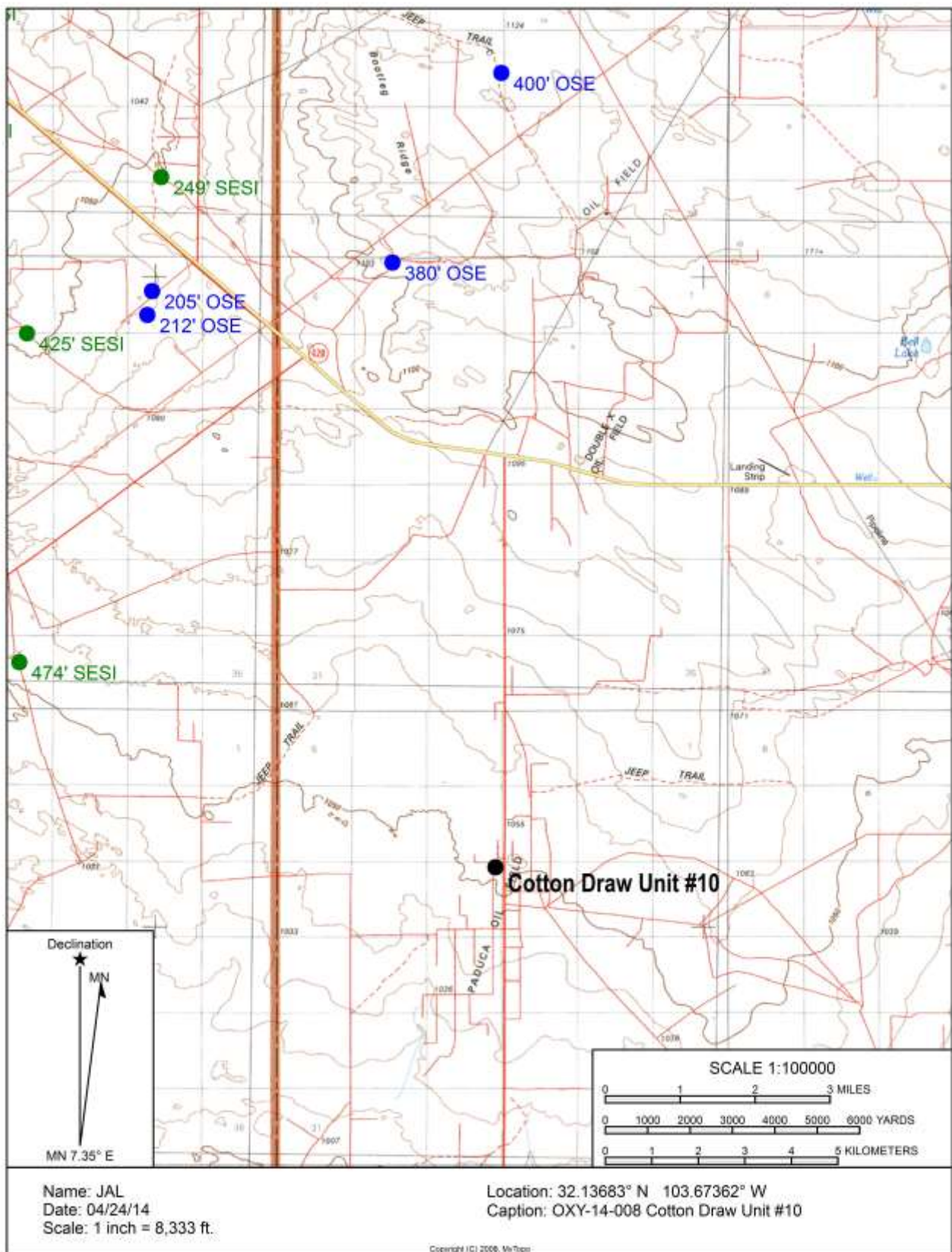


Figure 2
Site Plan



OXY-14-008 Cotton Draw Unit #10

Figure 3 NMOCD Trend Map



NMOCD Trend Map

Appendix A

Analytical Results



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

May 01, 2014

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: COTTONDRAW UNIT 10

Enclosed are the results of analyses for samples received by the laboratory on 05/01/14 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	05/01/2014	Sampling Date:	04/21/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	COTTONDRAW UNIT 10	Sampling Condition:	** (See Notes)
Project Number:	OXY-14-008	Sample Received By:	Celey D. Keene
Project Location:	C1		

Sample ID: SAMPLE PT 1 @ SURFACE (H401318-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	05/01/2014	ND	416	104	400	3.92	

Sample ID: SAMPLE PT 1 @ 1' BGS (H401318-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	05/01/2014	ND	416	104	400	3.92	

Sample ID: SAMPLE PT 2 @ SURFACE (H401318-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36800	16.0	05/01/2014	ND	416	104	400	3.92	

Sample ID: SAMPLE PT 2 @ 1' BGS (H401318-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	05/01/2014	ND	416	104	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received:	05/01/2014	Sampling Date:	04/21/2014
Reported:	05/01/2014	Sampling Type:	Soil
Project Name:	COTTONDRAW UNIT 10	Sampling Condition:	** (See Notes)
Project Number:	OXY-14-008	Sample Received By:	Celey D. Keene
Project Location:	C1		

Sample ID: SAMPLE PT 2 @ 2' BGS (H401318-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	05/01/2014	ND	416	104	400	3.92	

Sample ID: SAMPLE PT 2 @ 2'6" BGS (H401318-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8480	16.0	05/01/2014	ND	416	104	400	3.92	

Sample ID: SAMPLE PT 3 @ SURFACE (H401318-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14700	16.0	05/01/2014	ND	416	104	400	3.92	

Sample ID: SAMPLE PT 3 @ 1' BGS (H401318-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	05/01/2014	ND	416	104	400	3.92	

Sample ID: SAMPLE PT 3 @ 2' BGS (H401318-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	05/01/2014	ND	416	104	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Safety & Environmental Solutions
Bob Allen
703 East Clinton
Hobbs NM, 88240
Fax To: (575) 393-4388

Received: 05/01/2014
Reported: 05/01/2014
Project Name: COTTONDRAW UNIT 10
Project Number: OXY-14-008
Project Location: C1

Sampling Date: 04/21/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: SAMPLE PT 3 @ 2'6" BGS (H401318-10)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	05/01/2014	ND	416	104	400	3.92	

Sample ID: TT-1 @ 3' BGS (H401318-11)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	05/01/2014	ND	416	104	400	3.92	

Sample ID: TT-1 @ 4' BGS (H401318-12)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/01/2014	ND	416	104	400	3.92	

Sample ID: TT-1 @ 5' BGS (H401318-13)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	05/01/2014	ND	416	104	400	3.92	

Sample ID: TT-1 @ 6' BGS (H401318-14)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	05/01/2014	ND	416	104	400	3.92	

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Celey D. Keene

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 SH4500CI-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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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

161 East Mainland, Hobbs, NM 88240
(505) 397-2129 Fax: (505) 393-2478

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name: Safety & Environmental Solutions, Inc.		F.O.B. #:		BILL TO:		ANALYSIS REQUEST	
Project Manager: Rob Allan		City: Hobbs State: NM Zip: 88240		Company: Same			
Address: 703 East Clinton		Phone #: 575-397-0510 Fax #: 575-393-4388		Address:			
Project #: 04-14-008		Project Owner: Art-Tunnel		City:			
Project Name: Cottonwood Unit 10		State: Zip:		Phone #:			
Project Location: Cl		Fax #:		PRESERV. SAMPLES			
Sample Name: Roberto Pava		DATE OF ANALYSIS		DATE		TIME	
Lab I.D. HH0138-		Sample I.D.		DATE		TIME	
01 Sample #1 @ surface		01		4/21/14		9:00 AM	
02 Sample #1 @ 1' bgs		02		4/21/14		9:05 AM	
03 Sample #1 @ 2' bgs		03		4/21/14		9:10 AM	
04 Sample #1 @ 3' bgs		04		4/21/14		9:15 AM	
05 Sample #1 @ 4' bgs		05		4/21/14		9:20 AM	
06 Sample #1 @ 5' bgs		06		4/21/14		9:25 AM	
07 Sample #1 @ 6' bgs		07		4/21/14		9:30 AM	
08 Sample #1 @ 7' bgs		08		4/21/14		9:35 AM	
09 Sample #1 @ 8' bgs		09		4/21/14		9:40 AM	
10 Sample #1 @ 9' bgs		10		4/21/14		9:45 AM	
11 Sample #1 @ 10' bgs		11		4/21/14		9:50 AM	
12 Sample #1 @ 11' bgs		12		4/21/14		9:55 AM	
13 Sample #1 @ 12' bgs		13		4/21/14		10:00 AM	
14 Sample #1 @ 13' bgs		14		4/21/14		10:05 AM	
15 Sample #1 @ 14' bgs		15		4/21/14		10:10 AM	
16 Sample #1 @ 15' bgs		16		4/21/14		10:15 AM	
17 Sample #1 @ 16' bgs		17		4/21/14		10:20 AM	
18 Sample #1 @ 17' bgs		18		4/21/14		10:25 AM	
19 Sample #1 @ 18' bgs		19		4/21/14		10:30 AM	
20 Sample #1 @ 19' bgs		20		4/21/14		10:35 AM	
21 Sample #1 @ 20' bgs		21		4/21/14		10:40 AM	
22 Sample #1 @ 21' bgs		22		4/21/14		10:45 AM	
23 Sample #1 @ 22' bgs		23		4/21/14		10:50 AM	
24 Sample #1 @ 23' bgs		24		4/21/14		10:55 AM	
25 Sample #1 @ 24' bgs		25		4/21/14		11:00 AM	
26 Sample #1 @ 25' bgs		26		4/21/14		11:05 AM	
27 Sample #1 @ 26' bgs		27		4/21/14		11:10 AM	
28 Sample #1 @ 27' bgs		28		4/21/14		11:15 AM	
29 Sample #1 @ 28' bgs		29		4/21/14		11:20 AM	
30 Sample #1 @ 29' bgs		30		4/21/14		11:25 AM	
31 Sample #1 @ 30' bgs		31		4/21/14		11:30 AM	
32 Sample #1 @ 31' bgs		32		4/21/14		11:35 AM	
33 Sample #1 @ 32' bgs		33		4/21/14		11:40 AM	
34 Sample #1 @ 33' bgs		34		4/21/14		11:45 AM	
35 Sample #1 @ 34' bgs		35		4/21/14		11:50 AM	
36 Sample #1 @ 35' bgs		36		4/21/14		11:55 AM	
37 Sample #1 @ 36' bgs		37		4/21/14		12:00 PM	
38 Sample #1 @ 37' bgs		38		4/21/14		12:05 PM	
39 Sample #1 @ 38' bgs		39		4/21/14		12:10 PM	
40 Sample #1 @ 39' bgs		40		4/21/14		12:15 PM	
41 Sample #1 @ 40' bgs		41		4/21/14		12:20 PM	
42 Sample #1 @ 41' bgs		42		4/21/14		12:25 PM	
43 Sample #1 @ 42' bgs		43		4/21/14		12:30 PM	
44 Sample #1 @ 43' bgs		44		4/21/14		12:35 PM	
45 Sample #1 @ 44' bgs		45		4/21/14		12:40 PM	
46 Sample #1 @ 45' bgs		46		4/21/14		12:45 PM	
47 Sample #1 @ 46' bgs		47		4/21/14		12:50 PM	
48 Sample #1 @ 47' bgs		48		4/21/14		12:55 PM	
49 Sample #1 @ 48' bgs		49		4/21/14		1:00 PM	
50 Sample #1 @ 49' bgs		50		4/21/14		1:05 PM	
51 Sample #1 @ 50' bgs		51		4/21/14		1:10 PM	
52 Sample #1 @ 51' bgs		52		4/21/14		1:15 PM	
53 Sample #1 @ 52' bgs		53		4/21/14		1:20 PM	
54 Sample #1 @ 53' bgs		54		4/21/14		1:25 PM	
55 Sample #1 @ 54' bgs		55		4/21/14		1:30 PM	
56 Sample #1 @ 55' bgs		56		4/21/14		1:35 PM	
57 Sample #1 @ 56' bgs		57		4/21/14		1:40 PM	
58 Sample #1 @ 57' bgs		58		4/21/14		1:45 PM	
59 Sample #1 @ 58' bgs		59		4/21/14		1:50 PM	
60 Sample #1 @ 59' bgs		60		4/21/14		1:55 PM	
61 Sample #1 @ 60' bgs		61		4/21/14		2:00 PM	
62 Sample #1 @ 61' bgs		62		4/21/14		2:05 PM	
63 Sample #1 @ 62' bgs		63		4/21/14		2:10 PM	
64 Sample #1 @ 63' bgs		64		4/21/14		2:15 PM	
65 Sample #1 @ 64' bgs		65		4/21/14		2:20 PM	
66 Sample #1 @ 65' bgs		66		4/21/14		2:25 PM	
67 Sample #1 @ 66' bgs		67		4/21/14		2:30 PM	
68 Sample #1 @ 67' bgs		68		4/21/14		2:35 PM	
69 Sample #1 @ 68' bgs		69		4/21/14		2:40 PM	
70 Sample #1 @ 69' bgs		70		4/21/14		2:45 PM	
71 Sample #1 @ 70' bgs		71		4/21/14		2:50 PM	
72 Sample #1 @ 71' bgs		72		4/21/14		2:55 PM	
73 Sample #1 @ 72' bgs		73		4/21/14		3:00 PM	
74 Sample #1 @ 73' bgs		74		4/21/14		3:05 PM	
75 Sample #1 @ 74' bgs		75		4/21/14		3:10 PM	
76 Sample #1 @ 75' bgs		76		4/21/14		3:15 PM	
77 Sample #1 @ 76' bgs		77		4/21/14		3:20 PM	
78 Sample #1 @ 77' bgs		78		4/21/14		3:25 PM	
79 Sample #1 @ 78' bgs		79		4/21/14		3:30 PM	
80 Sample #1 @ 79' bgs		80		4/21/14		3:35 PM	
81 Sample #1 @ 80' bgs		81		4/21/14		3:40 PM	
82 Sample #1 @ 81' bgs		82		4/21/14		3:45 PM	
83 Sample #1 @ 82' bgs		83		4/21/14		3:50 PM	
84 Sample #1 @ 83' bgs		84		4/21/14		3:55 PM	
85 Sample #1 @ 84' bgs		85		4/21/14		4:00 PM	
86 Sample #1 @ 85' bgs		86		4/21/14		4:05 PM	
87 Sample #1 @ 86' bgs		87		4/21/14		4:10 PM	
88 Sample #1 @ 87' bgs		88		4/21/14		4:15 PM	
89 Sample #1 @ 88' bgs		89		4/21/14		4:20 PM	
90 Sample #1 @ 89' bgs		90		4/21/14		4:25 PM	
91 Sample #1 @ 90' bgs		91		4/21/14		4:30 PM	
92 Sample #1 @ 91' bgs		92		4/21/14		4:35 PM	
93 Sample #1 @ 92' bgs		93		4/21/14		4:40 PM	
94 Sample #1 @ 93' bgs		94		4/21/14		4:45 PM	
95 Sample #1 @ 94' bgs		95		4/21/14		4:50 PM	
96 Sample #1 @ 95' bgs		96		4/21/14		4:55 PM	
97 Sample #1 @ 96' bgs		97		4/21/14		5:00 PM	
98 Sample #1 @ 97' bgs		98		4/21/14		5:05 PM	
99 Sample #1 @ 98' bgs		99		4/21/14		5:10 PM	
100 Sample #1 @ 99' bgs		100		4/21/14		5:15 PM	
101 Sample #1 @ 100' bgs		101		4/21/14		5:20 PM	
102 Sample #1 @ 101' bgs		102		4/21/14		5:25 PM	
103 Sample #1 @ 102' bgs		103		4/21/14		5:30 PM	
104 Sample #1 @ 103' bgs		104		4/21/14		5:35 PM	
105 Sample #1 @ 104' bgs		105		4/21/14		5:40 PM	
106 Sample #1 @ 105' bgs		106		4/21/14		5:45 PM	
107 Sample #1 @ 106' bgs		107		4/21/14		5:50 PM	
108 Sample #1 @ 107' bgs		108		4/21/14		5:55 PM	
109 Sample #1 @ 108' bgs		109		4/21/14		6:00 PM	
110 Sample #1 @ 109' bgs		110		4/21/14		6:05 PM	
111 Sample #1 @ 110' bgs		111		4/21/14		6:10 PM	
112 Sample #1 @ 111' bgs		112		4/21/14		6:15 PM	
113 Sample #1 @ 112' bgs		113		4/21/14		6:20 PM	
114 Sample #1 @ 113' bgs		114		4/21/14		6:25 PM	
115 Sample #1 @ 114' bgs		115		4/21/14		6:30 PM	
116 Sample #1 @ 115' bgs		116		4/21/14		6:35 PM	
117 Sample #1 @ 116' bgs		117		4/21/14		6:40 PM	
118 Sample #1 @ 117' bgs		118		4/21/14		6:45 PM	
119 Sample #1 @ 118' bgs		119		4/21/14		6:50 PM	
120 Sample #1 @ 119' bgs		120		4/21/14		6:55 PM	
121 Sample #1 @ 120' bgs		121		4/21/14		7:00 PM	
122 Sample #1 @ 121' bgs		122		4/21/14		7:05 PM	
123 Sample #1 @ 122' bgs		123		4/21/14		7:10 PM	
124 Sample #1 @ 123' bgs		124		4/21/14		7:15 PM	
125 Sample #1 @ 124' bgs		125		4/21/14		7:20 PM	
126 Sample #1 @ 125' bgs		126		4/21/14		7:25 PM	
127 Sample #1 @ 126' bgs		127		4/21/14		7:30 PM	
128 Sample #1 @ 127' bgs		128		4/21/14		7:35 PM	
129 Sample #1 @ 128' bgs		129		4/21/14		7:40 PM	
130 Sample #1 @ 129' bgs		130		4/21/14		7:45 PM	
131 Sample #1 @ 130' bgs		131		4/21/14		7:50 PM	
132 Sample #1 @ 131' bgs		132		4/21/14		7:55 PM	
133 Sample #1 @ 132' bgs		133		4/21/14		8:00 PM	
134 Sample #1 @ 133' bgs		134		4/21/14		8:05 PM	
135 Sample #1 @ 134' bgs		135		4/21/14		8:10 PM	
136 Sample #1 @ 135' bgs		136		4/21/14		8:15 PM	
137 Sample #1 @ 136' bgs		137		4/21/14		8:20 PM	
138 Sample #1 @ 137' bgs		138		4/21/14		8:25 PM	
139 Sample #1 @ 138' bgs		139		4/21/14		8:30 PM	
140 Sample #1 @ 139' bgs		140		4/21/14		8:35 PM	
141 Sample #1 @ 140' bgs		141		4/21/14		8:40 PM	
142 Sample #1 @ 141' bgs		142		4/21/14		8:45 PM	
143 Sample #1 @ 142' bgs		143		4/21/14		8:50 PM	
144 Sample #1 @ 143' bgs		144		4/21/14		8:55 PM	
145 Sample #1 @ 144' bgs		145		4/21/14		9:00 PM	
146 Sample #1 @ 145' bgs		146		4/21/14		9:05 PM	
147 Sample #1 @ 146' bgs		147		4/21/14		9:10 PM	
148 Sample #1 @ 147' bgs		148		4/21/14		9:15 PM	
149 Sample #1 @ 148' bgs		149		4/21/14		9:20 PM	
150 Sample #1 @ 149' bgs		150		4/21/14		9:25 PM	
151 Sample #1 @ 150' bgs		151		4/21/14		9:30 PM	
152 Sample #1 @ 151' bgs		152		4/21/14		9:35 PM	
153 Sample #1 @ 152' bgs		153		4/21/14		9:40 PM	
154 Sample #1 @ 153' bgs		154		4/21/14		9:45 PM	
155 Sample #1 @ 154' bgs		155		4/21/14		9:50 PM	
156 Sample #1 @ 155' bgs		156		4/21/14		9:55 PM	
157 Sample #1 @ 156' bgs		157		4/21/14		10:00 PM	
158 Sample #1 @ 157' bgs		158		4/21/14		10:05 PM	
159 Sample #1 @ 158' bgs		159		4/21/14		10:10 PM	
160 Sample #1 @ 159' bgs		160		4/21/14		10:15 PM	
161 Sample #1 @ 160' bgs		161		4/21/14		10:20 PM	
162 Sample #1 @ 161' bgs		162		4/21/14		10:25 PM	
163 Sample #1 @ 162' bgs		163		4/21/14		10:30 PM	
164 Sample #1 @ 163' bgs		164		4/21/14		10:35 PM	
165 Sample #1 @ 164' bgs		165		4/21/14		10:40 PM	
166 Sample #1 @ 165' bgs		166		4/21/14		10:45 PM	
167 Sample #1 @ 166' bgs		167		4/21/14		10:50 PM	
168 Sample #1 @ 167' bgs		168		4/21/14		10:55 PM	
169 Sample #1 @ 168' bgs		169		4/21/14		11:00 PM	
170 Sample #1 @ 169' bgs		170		4/21/14		11:05 PM	
171 Sample #1 @ 170' bgs		171		4/21/14		11:10 PM	
172 Sample #1 @ 171' bgs		172		4/21/14		11:15 PM	
173 Sample #1 @ 172' bgs		173		4/21/14		11:20 PM	
174 Sample #1 @ 173' bgs		174		4/21/14		11:25 PM	
175 Sample #1 @ 174' bgs		175		4/21/14		11:30 PM	
176 Sample #1 @ 175' bgs		176		4/21/14		11:35 PM	
177 Sample #1 @ 176' bgs		177		4/21/14		11:40 PM	
178 Sample #1 @ 177' bgs		178		4/21/14		11:45 PM	
179 Sample #1 @ 178' bgs		179		4/21/14		11:50 PM	
180 Sample #1 @ 179' bgs		180		4/21/14		11:55 PM	
181 Sample #1 @ 180' bgs		181		4/21/14		12:00 PM	
182 Sample #1 @ 181' bgs		182		4/21/14		12:05 PM	
183 Sample #1							



DINAL LABORATORIES
101 East Main St., Hobbs, NM 88240
(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Company Name: Safety & Environmental Solutions, Inc.		Project Manager: Rob Allan	
Address: 703 East Clinton		City: Holts	
State: NM Zip: 88240		Phone #: 575-397-0510 Fax #: 575-393-4388	
Project #: 001-14-008		Project Name: Colby Ave Unit 10	
Project Location: Colby Ave Unit 10		Project Name: Colby Ave Unit 10	
Sample Name: Colby Ave		Sample Name: Colby Ave	
Lab ID: Sample 10		Lab ID: Sample 10	
Matrix: GROUNDWATER		Matrix: GROUNDWATER	
Container: 10		Container: 10	
Date: 5-14		Date: 5-14	
Time: 10:15		Time: 10:15	
Temp: 22.4		Temp: 22.4	
Sample Condition: Good		Sample Condition: Good	
Checked By: W		Checked By: W	
Signature: [Signature]		Signature: [Signature]	
Project #: 001-14-008		Project #: 001-14-008	
Project Name: Colby Ave Unit 10		Project Name: Colby Ave Unit 10	
Project Location: Colby Ave Unit 10		Project Location: Colby Ave Unit 10	
Sample Name: Colby Ave		Sample Name: Colby Ave	
Lab ID: Sample 10		Lab ID: Sample 10	
Matrix: GROUNDWATER		Matrix: GROUNDWATER	
Container: 10		Container: 10	
Date: 5-14		Date: 5-14	
Time: 10:15		Time: 10:15	
Temp: 22.4		Temp: 22.4	
Sample Condition: Good		Sample Condition: Good	
Checked By: W		Checked By: W	
Signature: [Signature]		Signature: [Signature]	
Project #: 001-14-008		Project #: 001-14-008	
Project Name: Colby Ave Unit 10		Project Name: Colby Ave Unit 10	
Project Location: Colby Ave Unit 10		Project Location: Colby Ave Unit 10	
Sample Name: Colby Ave		Sample Name: Colby Ave	
Lab ID: Sample 10		Lab ID: Sample 10	
Matrix: GROUNDWATER		Matrix: GROUNDWATER	
Container: 10		Container: 10	
Date: 5-14		Date: 5-14	
Time: 10:15		Time: 10:15	
Temp: 22.4		Temp: 22.4	
Sample Condition: Good		Sample Condition: Good	
Checked By: W		Checked By: W	
Signature: [Signature]		Signature: [Signature]	
Project #: 001-14-008		Project #: 001-14-008	
Project Name: Colby Ave Unit 10		Project Name: Colby Ave Unit 10	
Project Location: Colby Ave Unit 10		Project Location: Colby Ave Unit 10	
Sample Name: Colby Ave		Sample Name: Colby Ave	
Lab ID: Sample 10		Lab ID: Sample 10	
Matrix: GROUNDWATER		Matrix: GROUNDWATER	
Container: 10		Container: 10	
Date: 5-14		Date: 5-14	
Time: 10:15		Time: 10:15	
Temp: 22.4		Temp: 22.4	
Sample Condition: Good		Sample Condition: Good	
Checked By: W		Checked By: W	
Signature: [Signature]		Signature: [Signature]	
Project #: 001-14-008		Project #: 001-14-008	
Project Name: Colby Ave Unit 10		Project Name: Colby Ave Unit 10	
Project Location: Colby Ave Unit 10		Project Location: Colby Ave Unit 10	
Sample Name: Colby Ave		Sample Name: Colby Ave	
Lab ID: Sample 10		Lab ID: Sample 10	
Matrix: GROUNDWATER		Matrix: GROUNDWATER	
Container: 10		Container: 10	
Date: 5-14		Date: 5-14	
Time: 10:15		Time: 10:15	
Temp: 22.4		Temp: 22.4	
Sample Condition: Good		Sample Condition: Good	
Checked By: W		Checked By: W	
Signature: [Signature]		Signature: [Signature]	
Project #: 001-14-008		Project #: 001-14-008	
Project Name: Colby Ave Unit 10		Project Name: Colby Ave Unit 10	
Project Location: Colby Ave Unit 10		Project Location: Colby Ave Unit 10	
Sample Name: Colby Ave		Sample Name: Colby Ave	
Lab ID: Sample 10		Lab ID: Sample 10	
Matrix: GROUNDWATER		Matrix: GROUNDWATER	
Container: 10		Container: 10	
Date: 5-14		Date: 5-14	
Time: 10:15		Time: 10:15	
Temp: 22.4		Temp: 22.4	
Sample Condition: Good		Sample Condition: Good	
Checked By: W		Checked By: W	
Signature: [Signature]		Signature: [Signature]	
Project #: 001-14-008		Project #: 001-14-008	
Project Name: Colby Ave Unit 10		Project Name: Colby Ave Unit 10	
Project Location: Colby Ave Unit 10		Project Location: Colby Ave Unit 10	
Sample Name: Colby Ave		Sample Name:	

Appendix B

C-141

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

Form C-141
 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Oxy USA Inc.	Contact Austin Trammell
Address 1017 W Stanolind Road	Telephone No. 575-499-4919
Facility Name Cotton Draw Unit 10	Facility Type Well location

Surface Owner BLM	Mineral Owner	API No. 30-025-08195
-------------------	---------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	16	25S	32E	660	N	660	E	Lea

Latitude 32.13683° Longitude -103.67362°

NATURE OF RELEASE


Type of Release Produced Water	Volume of Release 35BBL	Volume Recovered 30BBL
Source of Release 2" steel production line due to internal corrosion	Date and Hour of Occurrence 04/01/2014 @ 2:00 PM	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking NMOCD, Jennifer Van Curen BLM	
By Whom? Austin Trammell	Date and Hour 04/02/2014 @ 02:37 PM	
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.*
 Internal corrosion on a 2" steel production flow line cause 35 bbls of produced water to leak onto the ground. 30 bbls of fluid was recovered and well was shut in.

Describe Area Affected and Cleanup Action Taken.*
 The affected area is approximately 18'x40'. Remediation will be completed in accordance with an approved remediation plan from the NMOCD and the BLM.

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: 	OIL CONSERVATION DIVISION	
Printed Name: Austin Trammell	Approved by Environmental Specialist:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: Austin_trammell@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 04/14/2014 Phone: 575-499-4919		

* Attach Additional Sheets If Necessary

Appendix C

Site Photographs



Photo #1 – East of fence line facing west



Photo #2 – West of fence line facing west



Photo #3 – Release Point



Photo #4 – Spill area facing east



Photo #5 - Spill are facing north east end



Photo #6 – Spill area facing north West end



Photo # 7 – Spill area facing south west end



Photo #8 – Spill are facing south east end



Photo #9 – Bottom of spill area

Appendix D

NMOSE Water Column/Average Depth to Water



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	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02216	CUB	LE		2	2	4	21	23S	32E	625035	3573261*	585	400	185

Average Depth to Water: **400 feet**

Minimum Depth: **400 feet**

Maximum Depth: **400 feet**

Record Count: 1

PLSS Search:

Section(s): 21

Township: 23S

Range: 32E

*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.

5/15/14 11:43 AM

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WATER COLUMN/ AVERAGE
DEPTH TO WATER



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											Depth	Depth	Water	
POD Number	Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Well	Water	Column
C 03555 POD1	C	LE	2	2	1	05	24S	32E	622709	3569231		600	380	220

Average Depth to Water: **380 feet**

Minimum Depth: **380 feet**

Maximum Depth: **380 feet**

Record Count: 1

PLSS Search:

Section(s): 5

Township: 24S

Range: 32E

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.

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Page 1 of 1

WATER COLUMN/ AVERAGE
 DEPTH TO WATER



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	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02405	C	ED		4	1	02	24S	31E		617690	3568631*	275	160	115
C 02460	C	ED		3	02	24S	31E			617496	3568022*	320		
C 02460 POD2	C	ED		3	02	24S	31E			617496	3568022*	320		
C 02464	C	ED		3	4	1 02	24S	31E		617589	3568530*	320	205	115

Average Depth to Water: **182 feet**

Minimum Depth: **160 feet**

Maximum Depth: **205 feet**

Record Count: 4

PLSS Search:

Section(s): 2

Township: 24S

Range: 31E

*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.

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WATER COLUMN/ AVERAGE
DEPTH TO WATER