

March 20, 2017

#5E25868-BG3

Mike Bratcher Environmental Specialist NMOCD District II 1301 W Grand Ave Artesia, NM 88210

### SUBJECT: SOIL REMEDIATION WORK PLAN FOR INCIDENT 2RP-755, State D SWD #001, UNIT N SECTION 16-T20S-R24E NMPM, API# 30-015-21572, EDDY COUNTY, NEW MEXICO

Dear Mr. Bratcher:

On behalf of EOG Y Resources, Inc. (EOG), Souder Miller & Associates (SMA) is pleased to submit the attached Work Plan summarizing the planned soil remediation of the release site located by the State D SWD #001 in Eddy County, New Mexico. The purpose of this Work Plan is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the remediation of the releases that occurred on state lands on March 12, 2006 and July 15, 2009.

SMA responded at the request of EOG, to assess, delineate and remediate the soils from the release of production fluids associated with State D SWD #001 well location. The March 12, 2006 release was initially reported to NMOCD by Yates Petroleum Corporation, on March 17, 2006 and was the result of motor valve malfunction. The July 15, 2009 release was initially reported to NMOCD on July 15, 2009 and was a result of an equipment failure. The table below summarizes information regarding the release. Results of the assessment, delineation, and remedial activities following in the Work Plan.

Table 1: Rele	ease inform	nation and	Site Rankin	g				
Name	State D SWD #001							
	Incident Number	Section Towns						
Location	2RP- 755 (July 15, 2009)	30-015- 21572	SE/SW (Unit N)	Section 16	T20S, R24E NMPM			
Estimated Date of Release	3/12/2006 (nMLB0610137549) 7/15/2009 (2RP-755)							
Date Reported to NMOCD	3/17/2006 (nMLB0610137549) 7/15/2009 (2RP-755)							
Reported by	Jerry Fanning (nMLB0610137549) Robert Asher (2RP-755)							
Land Owner	State							
Reported To	NM Oil Conservation Division (NMOCD)							
Source of Release	Motor valve malfunction (nMLB0610137549) Check valve malfunction (2RP-755)							



Released Material	Crude oil and produced water Produced Water (2RP-755)
Released Volume	15 bbls crude oil and 5 bbls produced water 110 bbls produced water (2RP-755)
Recovered Volume	0 bbls 100 bbls produced water (2RP-755)
Nearest Waterway	Greater than 1,000 feet
Depth to Groundwater	Greater than 100 feet
Nearest Domestic Water Source	Greater than 1,000 feet
NMOCD Ranking	0
SMA Response Dates	Initial: 3/6/2017

A copy of the C-141 Initial is attached in Appendix B. For questions or comments pertaining to the release or the attached work plan, please feel free to contact either of us.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

Austr Weyant

Austin Weyant Project Scientist

Cynthia Gray, CHMM Senior Scientist

State D SWD #1 SMA Ref #5E25868 BG3 3/20/17

### SOIL REMEDIATION WORK PLAN FOR INCIDENTS 2RP-755 AND NMLB0610137549 (NO RP #) EOG Y RESOURCES, INC.

STATE D SWD #001 UL N, SECTION 16, T20S R24E, NMPM API #30-015-21572 EDDY COUNTY, NM



Prepared for: EOG Y Resources, Inc. 105 South Fourth Street Artesia, NM 88210 Prepared by: Souder, Miller & Associates 201 S. Halagueno Carlsbad, NM 88221 575-689-7040

> March 20, 2017 SMA Reference 5E25868 BG3

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### 1.0 Introduction

On behalf of EOG Y Resources, Inc. (EOG), Souder, Miller & Associates (SMA) has prepared this report that describes the assessment, initial delineation and for two releases associated with the State D SWD #001 location API# 30-015-21572. The site is in Section 16, Township 20S, Range 24E NMPM, Eddy County, New Mexico, on state lands. Figure 1 illustrates the vicinity and location of the site.

### 2.0 Site Ranking, Land Status, and Jurisdiction

The release site is located approximately 11 miles west of Brantly Lake, with an elevation of approximately 3,775 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be 217 feet below ground surface (bgs).

According to the ChevronTexaco Trend map, this location has a depth to ground water at 350'. SMA searched the New Mexico State Engineer's Office online water well database for water wells in the vicinity of the release. Several wells are located within a 5000 meter radius of the site (see appendix C). Of those well, three showed a depth to groundwater less than 100 feet. Upon further investigation RA 05146 was an oil exploratory well, RA 02906 CLW was conversion transaction for a well in Sec 14 T10s R24E, and RA 02775 could not be located. SMA considers 217 feet to ground water to be a conservative estimate for this area. Figure 1 depicts the site vicinity and Figure 2 shows the site itself. The physical location of this release is on private property and is within the jurisdiction of NMOCD.

Based on the NMOCD Guidelines Ranking Criteria, this release location has been assigned an NMOCD ranking of 0 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 5,000 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates the site ranking rationale.

### 3.0 Assessment and Initial Results

On March 6, 2017 SMA field personnel were on site to assess the release area using a mobile chlorides titration kit EPA method 9045D meter. The potentially affected area was found to be approximately 90 feet long and 30 feet wide within the battery, and 125 feet long and 40 feet wide outside the battery to the south and east sides. Further details about the project can be found in NMOCD Online Records under "Soil Remediation Work Plan for Incident 2RP-755." All samples were collected and processed according to NMOCD soil sampling procedures. Samples were collected in two locations and sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for Total Chlorides using EPA Method 300.0.

#### 4.0 Soil Remediation Work Plan

SMA proposes to excavate the area within the battery to 3 feet. Since excavation in the battery will be a major undertaking, SMA proposes to obtain the vertical delineation of chlorides at the time of excavation. TPH and BTEX confirmation samples will also be collected for bottom hole and sidewalls. SMA will then request backfill approval from the OCD.

With approval from area utilities owners via 811 and NMOCD, SMA proposes to excavate the pasture to 1 foot. Sidewall and bottom hole confirmation samples will be collected.

### 5.0 Conclusions and Recommendations

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 0: 10 ppm (mg/kg) Benzene, 50 ppm total BTEX, and 5,000 ppm TPH.

After the soil remediation work plan is approved by NMOCD, SMA will begin soil remediation activities on site.

Soil contaminant concentrations found during the initial delineation are illustrated in Figure 2. A summary of the laboratory analyses is included in Table 3. Laboratory reports are included in Appendix A.

#### 6.0 Re-vegetation Plan

Seeding of the location is recommended for June or July, 2018, to coincide with the "rainy" season to achieve optimum results. Seed will be planted a quarter to half- inch deep using a disc type or similar rangeland drill sufficient to accommodate variations in seed sizes. If broadcast, seeding rates should be doubled. Seeding can be accomplished as early as May, 2018 given all dirt work for the location is stabilized. Soil in this area will be tilled to reduce compaction.

Seed-bed preparation will be performed to provide a hospitable environment for germinating seed by breaking up impermeable soil layers that have formed and increasing void spaces for air and water. Ground shall be roughed-up prior to planting, by raking, harrowing or other methods.

The seed mixture recommendation from a certified agronomist is as follows: 5 Pure Live Seed (PLS) Pounds per acre of each of the following (35 PLS Pounds Total per acre):

- Galleta
- Sideoats
- Blue Grama
- Alkali Sacaton
- Sand Dropseed
- Triticale
- Annual Ryegrass

Mulch will be placed to prevent loss of moisture and seed to wind. Mulching shall be accomplished using one of these following methods:

- a. weed free straw (2 tons/ac;kg/ha)
- b. wood residues (sawdust, wood chips, bark (2 tons/ac;kg/ha)
- c. hydro-mulching (1,500 lb/ac;kg/ha)
- d. composted manure (5 tons/ac;kg/ha)
- e. excelsior blanket
- f. straw jute
- g. peanut hulls (2 tons/ac;kg/ha)

Stabilization should occur after a minimum of two full summer growing seasons after planting.

SMA will monitor the site in late August, 2018 for Noxious Weeds, any species of concern will be treated chemically by a NMDA licensed applicator.

### 7.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment, verification of release stabilization, regulatory liaison, and preparation of this Remediation Work Plan. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-7040 or Shawna Chubbuck at 970-565-4465 ext. 1504.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

/ Austr Merant

Austin Weyant Project Scientist

hauna Chubbuck

Shawna Chubbuck Senior Scientist

### Figures:

Figure 1: Vicinity Map Figure 2: Site and Sample Location Map

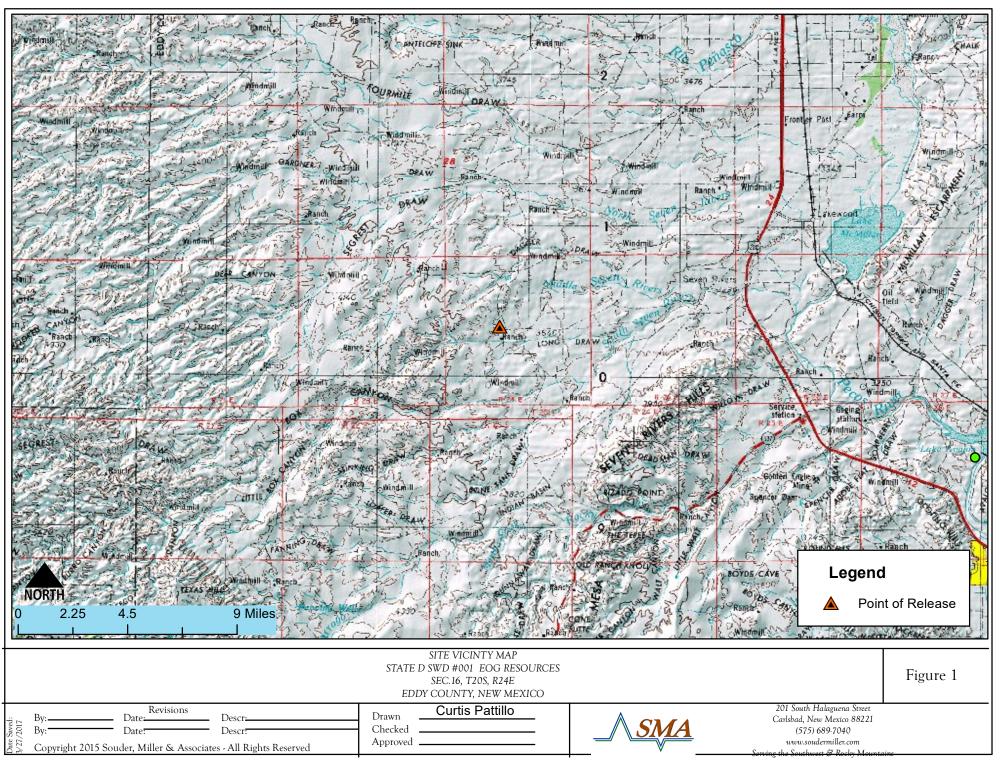
### Tables:

Table 1: Release Information and Site RankingTable 2: Summary of Laboratory Analyses

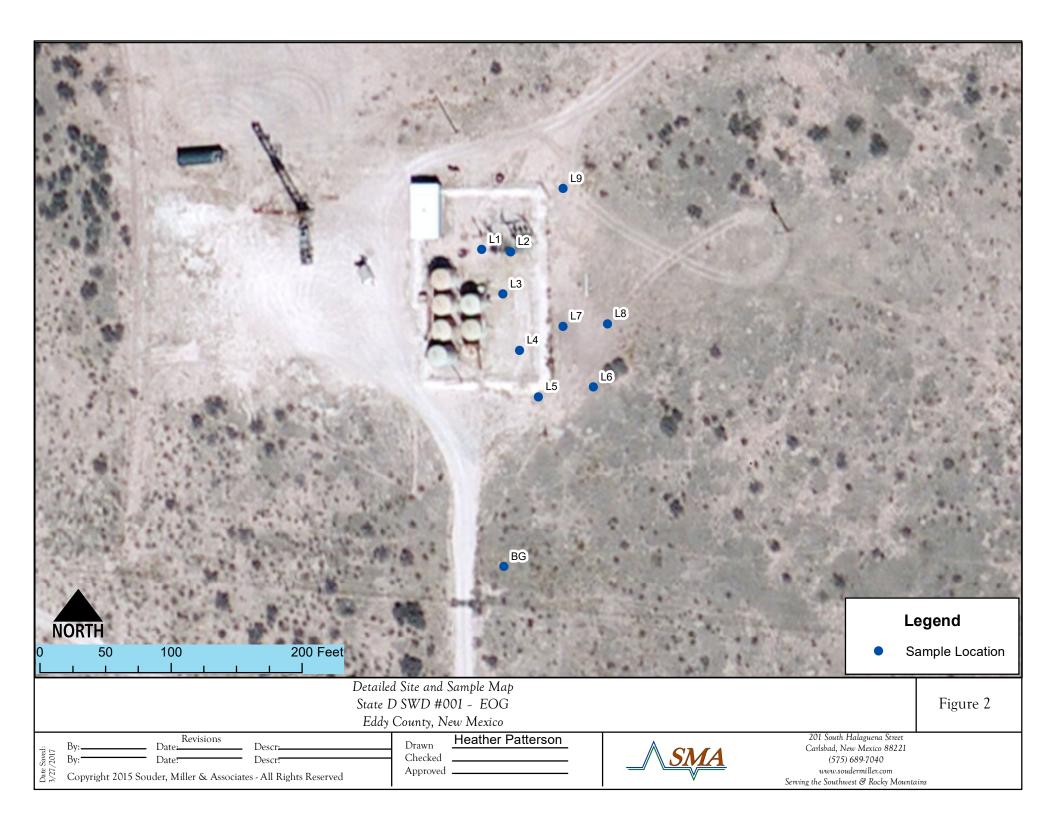
### Appendices:

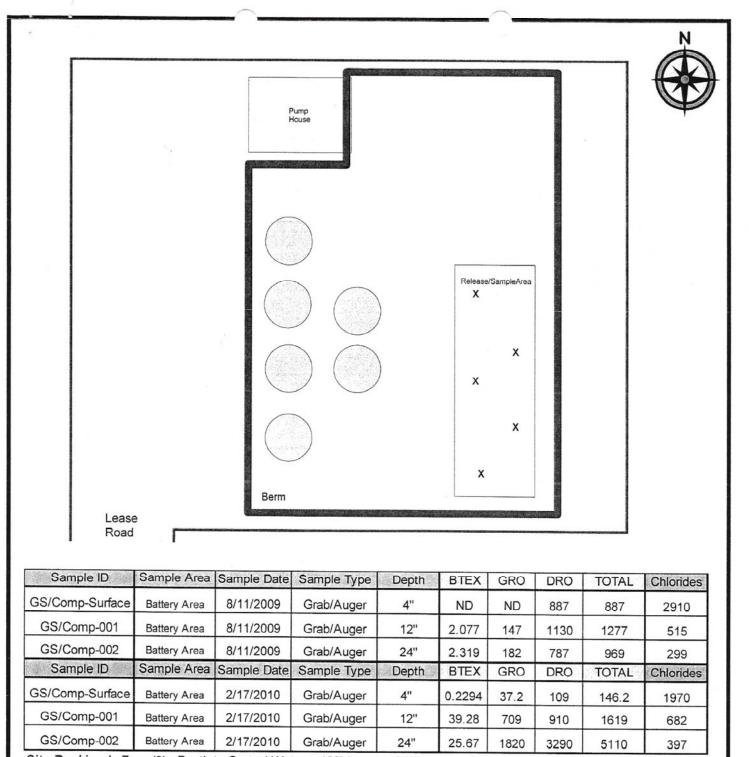
Appendix A: Laboratory Analytical Reports Appendix B: Form C141 Initial Appendix C: NMOSE Water Column Data

# FIGURE 1 VICINITY MAP



# FIGURE 2 DETAILED SITE AND SAMPLE LOCATION MAP





Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 350').

All results are ppm. Chloride results are for documentation. X - Sample Points



State D SWD #1

30-015-21572

Section 16 T20S-R24E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale) Xenco Laboratories: #340666 Report Date: 8/18/2009 Xenco Laboratories: #362835 & 362836 Report Date: 2/24/2010 Prepared by Robert Asher Environmental Regulatory Agent

# TABLE 1 RELEASE INFORMATION AND SITE RANKING

### EOG Y Resources Table 1: Site Ranking

Site Ranking	Determination	Tahla
SILE RAHKING	Determination	rable

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes		
< 50 BGS = 20					
50' to 99' = 10		USGS Topo Maps; Google Earth , NMOSE database	average depth of ground water is 217 feet bgs		
>100' = 0	0				
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes		
< 200' = 20			nearset surface water 11		
200' - 1000' = 10		USGS Topo Maps; Google Earth ; ArcMap	miles east of Brantly		
>1000' = 0	0				
Ranking Criteria for Horizontal Distance to a Water Well or Water Source	NMOCD Numeric Rank for this Site	Source for Ranking	Notes		
<1000' from a water source? <200'	0				
from a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0	0	NM State Engineer Water Well Database	nearest well 0.39 miles south of location		
		-			
Total Site Ranking Soil Remedation Standards	0 to 9	0 10 to 19	>19		
	0109	10 10 19	>19		
Benzene	10 PPM	10 PPM	10 PPM		
BTEX	50 PPM	50 PPM	50 PPM		
ТРН	5000 PPM	1000 PPM	100 PPM		



# TABLE 2 SUMMARY OF LABORATORY ANALYSES

Analytical Report Reference	Sample Number on Figure 2	Sample Date	Depth	BTEX	Benzene	GRO	DRO	CI-
1703595- 001	BG-1	3/6/2017	surface	ppm N/A	mg/Kg N/A	mg/Kg N/A	mg/Kg N/A	mg/Kg <30
1703595- 002	L1-0.5	3/6/2017	0.5 Ft	N/A	N/A	N/A	N/A	8,800
1703595- 003	L1-1	3/6/2017	1 Ft	N/A	N/A	N/A	N/A	3,700
1703595- 004	L2-1	3/6/2017	1 Ft	N/A	N/A	N/A	N/A	2,200
1703595- 005	L2-2	3/6/2017	2 Ft	N/A	N/A	N/A	N/A	1,500
1703595- 006	L2-3	3/6/2017	3 Ft	N/A	N/A	N/A	N/A	1,300
1703595- 007	L3-0.5	3/6/2017	0.5 Ft	N/A	N/A	N/A	N/A	1,900
1703595- 008	L4-1	3/6/2017	1 Ft	N/A	N/A	N/A	N/A	1,400
1703595- 009	L4-2	3/6/2017	2 Ft	N/A	N/A	N/A	N/A	1,100
1703595- 010	L4-3	3/6/2017	3 Ft	N/A	N/A	N/A	N/A	910
1703599- 001	L5-0.5	3/6/2017	0.5 Ft	N/A	N/A	N/A	N/A	3700
1703599- 002	L5-1	3/6/2017	1 Ft	N/A	N/A	N/A	N/A	510
1703599- 003	L6-0.5	3/6/2017	0.5 Ft	N/A	N/A	N/A	N/A	4700
1703599- 004	L7-0.5	3/6/2017	0.5 Ft	N/A	N/A	N/A	N/A	110
1703599- 005	L7-1	3/6/2017	1 Ft	N/A	N/A	N/A	N/A	970
1703599- 006	L8-0.5	3/6/2017	0.5 Ft	N/A	N/A	N/A	N/A	7400
1703599- 007	L9-0.5	3/7/2017	0.5 Ft	N/A	N/A	N/A	N/A	BDL

### Table 2: Summary of Laboratory Analyses

# APPENDIX A LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

March 24, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX

OrderNo.: 1703595

RE: EOG State D

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 10 sample(s) on 3/11/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** 

Lab Order: 1703595

Hall Environ	mental Analysis		Date Reported: 3/24/2017						
	Souder, Miller & Assoc EOG State D	iates			<b>Lab Order:</b> 17035	95			
Lab ID: Client Sample ID:	1703595-001 BG-1				te: 3/6/2017 10:10:00 AN	Μ			
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID			
EPA METHOD 30 Chloride	0.0: ANIONS	ND	30	mg/Kg	Ana 20 3/15/2017 3:53:32 F	lyst: <b>LGT</b> PM 30706			
Lab ID: Client Sample ID:	1703595-002 L1-0.5				te: 3/6/2017 10:10:00 AN	М			
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID			
EPA METHOD 30 Chloride	0.0: ANIONS	8800	750	mg/Kg	Ana 500 3/16/2017 4:23:44 F	lyst: <b>MRA</b> PM 30706			
Lab ID: Client Sample ID:	1703595-003 L1-1				te: 3/6/2017 10:18:00 AN	М			
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID			
EPA METHOD 30 Chloride	0.0: ANIONS	3700	150	mg/Kg	Ana 100 3/16/2017 4:36:09 F	lyst: <b>MRA</b> PM 30706			
Lab ID: Client Sample ID:	1703595-004 L2-1				te: 3/6/2017 10:25:00 AM	Ν			
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID			
EPA METHOD 30 Chloride	0.0: ANIONS	2200	75	mg/Kg	Ana 50 3/16/2017 5:13:23 F	lyst: <b>MRA</b> PM 30706			
Lab ID:	1703595-005			Collection Dat	te: 3/6/2017 10:34:00 AM	N			
Client Sample ID:	L2-2			Matri	x: SOIL				
Analyses		Result	PQL Qual	Units	DF Date Analyzed	Batch ID			
EPA METHOD 30	0.0: ANIONS				Ana	lyst: MRA			
Chloride		1500	75	mg/Kg	50 3/16/2017 5:25:48 F	PM 30706			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Qualifiers: \*
  - Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
  - H Holding times for preparation or analysis exceeded
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits
  - S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 1 of 3
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

**Analytical Report** 

Lab Order: 1703595

Hall Environ	mental Analys		Date Reported: 3/24/2017					
	Souder, Miller & Asso EOG State D	ociates			<b>Lab Order:</b> 1703595			
Lab ID: Client Sample ID:	1703595-006 L2-3				Date: 3/6/2017 10:41:00 AM trix: SOIL			
Analyses		Result	PQL Qual	l Units	DF Date Analyzed Batch II			
EPA METHOD 300 Chloride	0.0: ANIONS	1300	75	mg/Kg	Analyst: <b>MRA</b> 50 3/16/2017 5:38:12 PM 3070			
Lab ID: Client Sample ID:	1703595-007 L3-0.5				Date: 3/6/2017 10:52:00 AM trix: SOIL			
Analyses		Result	PQL Qual	l Units	DF Date Analyzed Batch II			
EPA METHOD 300 Chloride	0.0: ANIONS	1900	75	mg/Kg	Analyst: <b>MRA</b> 50 3/17/2017 3:49:16 PM 3073			
Lab ID: Client Sample ID:	1703595-009 L4-1				Date: 3/6/2017 11:10:00 AM trix: SOIL			
Analyses		Result	PQL Qual	l Units	DF Date Analyzed Batch II			
EPA METHOD 300 Chloride	0.0: ANIONS	1400	75	mg/Kg	Analyst: <b>MRA</b> 50 3/17/2017 4:01:41 PM 3073			
Lab ID: Client Sample ID:	1703595-010 L4-2				Date: 3/6/2017 11:16:00 AM trix: SOIL			
Analyses		Result	PQL Qual	l Units	DF Date Analyzed Batch II			
EPA METHOD 300 Chloride	0.0: ANIONS	1100	75	mg/Kg	Analyst: <b>MRA</b> 50 3/20/2017 5:13:48 PM 3075			
Lab ID:	1703595-011			Collection I	Date: 3/6/2017 11:24:00 AM			
Client Sample ID:	L4-3			Ma	trix: SOIL			
Analyses		Result	PQL Qual	l Units	DF Date Analyzed Batch II			
EPA METHOD 300 Chloride	0.0: ANIONS	910	30	mg/Kg	Analyst: <b>MRA</b> 20 3/17/2017 10:38:59 AM 3075			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Qualifiers: \*
- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 2 of 3
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder EOG S	, Miller & Associat tate D	es							
Sample ID	MB-30706	SampType: <b>m</b>	blk	Tes	tCode: El	PA Method	300.0: Anion	IS		
Client ID:	PBS	Batch ID: 30	706	F	RunNo: 4	1382				
Prep Date:	3/15/2017	Analysis Date: 3	/15/2017	5	SeqNo: 12	298272	Units: mg/k	٢g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID	LCS-30706	SampType: Ic	S	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	LCSS	Batch ID: 30	706	F	RunNo: 4	1382				
Prep Date:	3/15/2017	Analysis Date: 3	/15/2017	5	SeqNo: 12	298273	Units: mg/k	٢g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	95.6	90	110			
Sample ID	MB-30730	SampType: <b>m</b>	blk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID: 30	730	F	RunNo: 4	1429				
Prep Date:	3/16/2017	Analysis Date: 3	/16/2017	S	SeqNo: 12	299397	Units: mg/H	٢g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID	LCS-30730	SampType: Ic	S	Tes	tCode: El	PA Method	300.0: Anion	IS		
Client ID:	LCSS	Batch ID: 30	730	F	RunNo: 4	1429				
Prep Date:	3/16/2017	Analysis Date: 3	/16/2017	S	SeqNo: 12	299398	Units: <b>mg/k</b>	٢g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	94.9	90	110			
Sample ID	MB-30754	SampType: <b>m</b>	blk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID: 30	754	F	RunNo: 4	1494				
Prep Date:	3/17/2017	Analysis Date: 3	/17/2017	S	SeqNo: 1	301123	Units: <b>mg/k</b>	٢g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID	LCS-30754	SampType: Ic	s	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:		Batch ID: 30			RunNo: 4					
Prep Date:	3/17/2017	Analysis Date: 3	/17/2017	5	SeqNo: 1	301124	Units: mg/k	٢g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	96.6	90	110			

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 3 of 3

WO#: **1703595** 24-Mar-17 HALL ENVIRONMENTAL ANALYSIS LABORATORY Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

### Sample Log-In Check List

Client Name: SMA-CARLSBAD	Work Order Number	: 1703595		RcptNo:	1
Received by/date:	02/11/17				
Logged By: Lindsay Mangin	3/11/2017 8:15:00 AM		Junky Holago		
Completed By: Lindsay Mangin	3/13/2017 9:17:50 AM		Anduttheas		
Reviewed By:	03/13/17		0.9.00		
Chain of Custody					
1. Custody seals intact on sample bottles?		Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of Custody complete?		Yes 🗹	No \Box	Not Present	
3. How was the sample delivered?		<u>Courier</u>			
Log In					
4. Was an attempt made to cool the samp	les?	Yes	No 🔽	NA 🗌	
5. Were all samples received at a tempera	ture of >0° C to 6.0°C	Yes	No 🔽		
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated te	est(s)?	Yes 🗹	No 🗌		
8. Are samples (except VOA and ONG) pro	operly preserved?	Yes 🔽	No 🗌		
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗌	
10.VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	
11. Were any sample containers received b	roken?	Yes	No 🗹 🗄	# of preserved	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	)	Yes 🔽	No 🗌	bottles checked for pH: (<2 o	r >12 unless noted)
13. Are matrices correctly identified on Chair		Yes 🗹	No 🗌	Adjusted?	
14. Is it clear what analyses were requested	?	Yes 🗹	No 🗌		
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗌	Checked by:	····
Special Handling (if applicable)	ith this order?	Vac 🗌		NA 🗹	
16. Was client notified of all discrepancies w		Yes 🗌	No 🗌	NA 🖳	-
Person Notified:	Date	_ <b></b>	<b></b> — –		:   
By Whom:	Via:	eMail I	Phone 🔡 Fax	In Person	· ·
Regarding: Client Instructions:		****			
17. Additional remarks:		- • • • • •			1
18. <u>Cooler Information</u>					
Cooler Information   Cooler No   Temp °C   Condition	Seal Intact Seal No	Seal Date	Signed By		
	Not Present				
· · · · · · · · · · · · · · · · · · ·	<u> </u>				

	AALL ENVIKONMENTAL ANALYSIS LABORATORY							(N	no Y	λir Bubbles (	/					~	N.	N N N	Mar 1 1	NAT 24					1
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Turn-Around Time:	🗙 Standard 🗆 Rush	Project Name:	EOG State D	Project #:		Project Manager:	Austry Weyant	Sampler. ILM HAP	Temper	ative HEAL No.	400	Hot, 1 - COZ	200-		Frau -	-002	1 - WC	101-1		- 003	V / -010	10	Received by: Date Time	Received hur Date Time	everyou by.
Chain-of-Custody Record	CAPISIZAN	5			0402-060		Level 4 (Full Validation)			Sample Request ID	B6-1	L1 - 0.5	L1-1	(DEC) ACCO	1-27	12-2	12-3	1.3-05	L4-03	1 - 47	2 - 41	L4 - 3			
I-of-Cu	SMA		33		756		-	□ Other		Matrix	Sosu	1205	5 1			H		_	1		P		Relinquished by:	Reinquished by:	
hair	Ś		Addres		11	Fax#:	ackage	tation AP	EDD (Type)	Time	F10'I	DI:CI	10:18		1025	10.34	104	1221	19:51	01:11	91:11	オンニ	Time:	Time'	ė
0	Client:		Mailing Address:		Phone #:	email or Fax#:	QA/QC Package:	Accreditation		Date	3 64	-							+	10	8		Date:	Date:	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

March 24, 2017

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221 TEL: (575) 689-7040 FAX

OrderNo.: 1703599

RE: State D

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/11/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**Analytical Report** 

Lab Order: 1703599

Hall Environ	mental Analys	is Laborat	ory, Inc.		Date Reported: 3/24/2017
	Souder, Miller & Asso State D	ociates			Lab Order: 1703599
Lab ID: Client Sample ID:	1703599-001 L5-0.5				Date: 3/6/2017 10:30:00 AM trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch II
EPA METHOD 300 Chloride	0.0: ANIONS	3700	150	mg/Kg	Analyst: MRA 100 3/20/2017 6:40:41 PM 30754
Lab ID: Client Sample ID:	1703599-002 L5-1				Date: 3/6/2017 10:35:00 AM trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch II
EPA METHOD 300 Chloride	0.0: ANIONS	510	30	mg/Kg	Analyst: <b>MRA</b> 20 3/17/2017 2:34:47 PM 30754
Lab ID: Client Sample ID:	1703599-003 L6-0.5				Date: 3/6/2017 10:40:00 AM trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch II
EPA METHOD 300 Chloride	0.0: ANIONS	4700	300	mg/Kg	Analyst: MRA 200 3/20/2017 6:53:05 PM 30754
Lab ID: Client Sample ID:	1703599-004 L7-0.5				Date: 3/6/2017 10:45:00 AM trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch II
EPA METHOD 300 Chloride	0.0: ANIONS	110	30	mg/Kg	Analyst: <b>MRA</b> 20 3/17/2017 2:59:36 PM 30754
Lab ID: Client Sample ID:	1703599-005 L7-1				Date: 3/6/2017 10:50:00 AM trix: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch II
EPA METHOD 300 Chloride	0.0: ANIONS	970	75	mg/Kg	Analyst: MRA 50 3/20/2017 7:05:30 PM 30754

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Qualifiers: \* Value exceeds Maximum Contaminant Level.
  - D Sample Diluted Due to Matrix
  - H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 1 of 3
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1703599

Hall Enviro	nmental Analys	sis Laborat	tory, Inc.		Date Reported: 3/24	4/2017						
CLIENT: Project:	Souder, Miller & Asso State D	ociates			<b>Lab Order:</b> 1703	599						
Lab ID:	1703599-006			Collection D	Date: 3/6/2017 10:55:00 A	М						
Client Sample ID	: L8-0.5		Matrix: SOIL									
Analyses		Result	PQL Qu	al Units	DF Date Analyzed	Batch ID						
EPA METHOD 30	00.0: ANIONS				An	alyst: MRA						
Chloride		7400	300	mg/Kg	200 3/20/2017 7:17:55	PM 30754						
Lab ID:	1703599-007			Collection D	ate: 3/6/2017 11:00:00 A	M						
<b>Client Sample ID</b>	: L9-0.5			Ma	trix: SOIL							
Analyses		Result	PQL Qu	al Units	DF Date Analyzed	Batch ID						
EPA METHOD 30	00.0: ANIONS				An	alyst: MRA						
Chloride		ND	30	mg/Kg	20 3/17/2017 3:36:52	PM 30754						

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Souder, I State D	Miller & As	sociate	es							
Sample ID	MB-30754	SampT	/pe: <b>ml</b>	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch	ID: 30	754	F	RunNo: 4	1494				
Prep Date:	3/17/2017	Analysis Da	ate: 3/	17/2017	S	SeqNo: 1	301123	Units: <b>mg/k</b>	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-30754	SampTy	/pe: <b>Ics</b>	6	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 30	754	F	RunNo: 4	1494				
Prep Date:	3/17/2017	Analysis Da	ate: 3/	17/2017	S	SeqNo: 1	301124	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	96.6	90	110			

#### **Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 3 of 3

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albuc TEL: 505-345-3975 I Website: www.hali	4901 querque FAX: 5(	Hawkins NE 2, NM 87109 )5-345-4107	Sample Log-In Check List						
Client Name: SMA-CARLSBAD	Work Order Number:	17035	99		RcptNo:	1				
Received by/date:	03/11/17									
Logged By: Lindsay Mangin	3/11/2017 8:15:00 AM		C	<del>findig</del> Hogo						
Completed By: Lindsay Mangin	3/13/2017 9:40:14 AM		0	find y Hogo						
Reviewed By: al	03/13/17			Ĵ.						
Chain of Custody										
1. Custody seals intact on sample bottles?		Yes		No 🗀	Not Present 🗹					
2. Is Chain of Custody complete?		Yes	$\checkmark$	No 🗌	Not Present					
3. How was the sample delivered?		<u>Couri</u>	er							
<u>Log In</u>										
4. Was an attempt made to cool the samples?		Yes		No 🗹	NA 🗌					
5. Were all samples received at a temperature	of >0° C to 6.0°C	Yes		No 🗹						
6. Sample(s) in proper container(s)?		Yes		No 🗌						
7. Sufficient sample volume for indicated test(s	)?	Yes		No 🗌						
8, Are samples (except VOA and ONG) properl	y preserved?	Yes	✓	No 🗔						
9. Was preservative added to bottles?		Yes		No 🔽	NA 🗌					
10.VOA vials have zero headspace?		Yes		No 🗌	No VOA Vials 🗹					
11. Were any sample containers received broke	n?	Yes		No 🗹	# of preserved bottles checked	<u>-</u> :				
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes		No 🗌	for pH:	or >12 unless noted)				
13. Are matrices correctly identified on Chain of	Custodv?	Yes		No 🗌	Adjusted?					
14. Is it clear what analyses were requested?	<b>,</b>			No 🗌	_					
15. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No 🗌	Checked by:					
Special Handling (if applicable)										
16. Was client notified of all discrepancies with th	his order?	Yes		No 🗌	NA 🗹	-				
Person Notified:	Date									
By Whom:	Via:	] eMa	il 📋 Phor	ne 🗌 Fax	In Person					
Regarding:	*****			Martana (1997)						
Client Instructions:										
17. Additional remarks:										
18. <u>Cooler Information</u>	al Intact   Soci Mo.		to   c:-	med By I						
	al Intact Seal No S Present	eal Da	ue   510	gned By						
·			· · · · · · · · · · · · · · · · · · ·	•	<u></u>					

	HALL ENVIRONMENTAL ANALYSTS LAROPATODY							(	NJ	0 J)	Air Bubbles (	/											-	S
	HALL ENVIRONMENTAL		www.naiienvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109	505-345-4107	t				()		-im92) 0728	12	-											Rat
	84		www.nalienvironmental.com ns NE - Albuquerque, NM 8	5-345	Analysis Request	_					AOV) 80828	-												
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	Цſ	37	901 F	Tel. 5		_		_			86108 H9T	-												D
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	🗆 Rush		2				1.	Jan	ZNO	8't1 /	ative HEAL No.	100-	-002	-005	HOU-	-005	-006	-007					rz Date Time	Date Time
me:			te			L.	1.10	2	□ Yes	rature:	Preservative Type	1	-	_	/			1	1-1-1-			<	V	
Turn-Around Time:	K Standard	Project Name:	Sta	Project #:		Project Manager:	Aschu	Sampler:		Sample Temperature:	Container P Type and #	202	. /	/			/	)	Net on				Received by:	Received by:
ord							alidation)	Innenie	1		uest ID	6		1	5		1	5						
Chain-of-Custody Record	(ACLERAR)						I evel 4 (Eull Validation)				Sample Request ID	15-0.5	1-57	6 -0.5	17-0.	1-1-	18-05	L9 - 0.				1	Parts -	×- ~
f-Cus	SMA						L	1	D Other		Matrix	SOIL	-	5	-								Relinquished by	Relinquished by:
lain-o	N	1	Mailing Address:			ax#:	QA/QC Package:			(adk)	Time	10:30 5	10:35	10740	SKOI	10:00	10:57	00:1						
5 U	it:		ing A		Phone #:	email or Fax#:	QA/QC Packa	Accreditation	O NELAP	C EDD (Type)			1	2	3	5	10		-	-	-	$\square$	Time:	Time:
	Client:		Mail		Pho	ema	O AVC	Acci			Date	3/celin			-	1		J					Date:	Date:

# APPENDIX B FORM C141 INITIAL

JUL-	-22-2009	WED 04:0	06 PM Y	ATES ENGINE	ERING		FAX NO.	15057	484585	P. 02/			
District 1 1625 N. French District 11						New Mez and Natura	cico al Resource:	s		Form C Revised October 10,			
1000 Rib Brazos Roud, Aztec, NM 874-10 District IV 1220						rvation Di h St. France, NM 87:	cis Dr.		Submit 2 Copies to appropri District Office in accordar with Rule 116 on be side of fo				
		Contractor Insurance	Rel	ease Notifi		The second s		Actio	7				
n Umi	1) 11/1	138956				TOR	DITECTIVE	reno		al Damant 🔲 Ginal D			
Name of C		100100		OGRID Nu		Contact			🛛 Initia	al Report 🔲 Final Ri			
Yates Petro	leum Corr	poration		25575		Robert Ash							
Address 104 S. 4 <sup>TH</sup>	Chront					Telephone							
Facility Na				API Numbe	- 1	505-748-14 Facility Typ							
State D SW				30-015-2157		Battery		-					
Surface Ow State	ner			Mineral ( State	Owner				Lease V-253				
				LOC	TIO	N OF RE	LEASE						
Unit Letter N	Section 16	Township 205	Range 24E	Feet from the 660	North	South Line South	Feet from th	c East/	West Line West	County Eddy			
				Latitude 32.	56807	Longituda	104 59483						
						OF REL	1						
Type of Rele	ase		1	INAL	URE	Volume of			Volume I	Recovered			
Produced Wa	ter					110 B/PW	N						
Source of Re Pump contain		1				Date and Hour of Occurrence Date and Hour of Discovery 7/15/2009, AM 7/15/2009, AM							
Was Immedia		liven?	_			IFYES, To	Whom?		1/13/200	9, AM			
			Yes 🗌	No 🗌 Not R	equired	Mike Brate	her/NMOCD,	Artesia					
By Whom? Robert Asher	Vatas Potre	oleum Corpora	ation			Date and H 7/15/2009.							
Was a Water		hed?					lume Impactir	g the Wat	ercourse.				
If a Watercou	rse was Imp	acted, Descri	Yes 🛛 be Fully.*			N/A							
Describe Cau	se of Proble	m und Remed	lial Action	Taken.*									
3ad check val	ve on sump	pump from b	uilding, su	ump pump burne	d out, ca	using contain	ment vessel to	overflow.	Isolated li	ne, called vacuum truck.			
An approxima inalysis nus fo to submitted t Wellhead Pro	te area of 1 r TPH & B o the OCD tection Ar	TEX (chloride requesting clo on: No, Distan	cuum truc) es for docu isure, Wil nee to Sur	k recovered rema umentation). If in I submit work pla face Water Bod	nitial ana an if furt y: >100	alytical result: her remediati 0', SITE RA	s for TPH & B on is required. NKING 15 0.	TEX are u Depth to	Ground V	1 samples will he taken and L's a Final Report, C-141 wil Vater: >100' (approx. 350')			
hereby certif egulations all ublic health of hould their of r the environ	y that the in operators a or the environ verations has nent. In ad-	formation giv re required to protent. The e ve failed to ac	en above a report and acceptance lequately i CD accepts	is true and compl l/or file certain re of a C-141 reponvestigate and re	ete to th dense no rt by the mediate	e best of my l tifications an NMOCD ma contaminatio	cnowledge and d perform con rked as "Final n that pose a t	f understar ective active Report" d	ons for rele ocs not reli-	uant to NMOCD rules and eases which may endanger eve the operator of liability , surface water, human health impliance with any other			
. (	2.01	$\cap$				OIL CONSERVATION DIVISION							
ignature:	Rohert Ash				A	pproved by F	)istrStgfwodrE	Isor M	14 Br	Manuel -			
		latory Agent			A	pproval Date	4/21	11 6	xpiration D	Date:			
mail Address	boba@yp	cam.com			c	onditions of A	Approval:	/		_			
	100						liation per	OCD Rul	es &	Attached			
ate: Wednesd ttach Additio				e: 505-748-1471	e		SUBMIT R						
	ini priceta		J.				NOT LATE			2 RP 75			

# APPENDIX C NMOSE WATER COLUMN DATA



## New Mexico Office of the State Engineer Water Column/Average Depth to Water

(R=POD has (A CLW##### in the been replaced, POD suffix indicates the POD has been replaced O=orphaned, & no longer serves a C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE) water right file.) closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet) POD Sub-QQQ **Depth Depth Water POD Number** Well Water Column Code basin County 64 16 4 Sec Tws Rng Х Υ Distance RA 04956 ED 1 1 21 20S 24E 537605 3603101\* 565 1013 ED 3 3 2 21 20S 308 RA 10139 24E 538285 3602597\* 915 RA 02775 CH 1 4 3 21 20S 24E 537899 3601986\* 1495 140 31 109 RA 00189 CH 3 1 4 20 20S 24E 536700 3602190\* 1849 220 4 2 3 22 20S 24E 3602194\* 1000 400 600 RA 05424 ED 539669 2082 4 1 4 22 20S RA 07771 ED 24F 540073 3602194\* 2413 3 2 3 08 20S RA 05478 ED 24F 536272 3605389\* 2596 550 500 50 ED 1 2 14 20S 24E 541600 3604734\* 3786 300 80 220 RA 05146 RA 02906 CLW CH 3 4 2 14 20S 24E 541907 3604238\* 3952 145 25 120 3 3 13 20S 24E 3603517\* 300 RA 04742 ED 542408 4379 RA 03084 ED 03 20S 24E 539366 3607752\* 4479 330 268 62 1 3599981\* RA 10140 ED 2 1 1 35 20S 24E 540938 4547 295 Average Depth to Water: 217 feet Minimum Depth: 25 feet Maximum Depth: 500 feet Record Count: 12

#### UTMNAD83 Radius Search (in meters):

Easting (X): 538028.48

Northing (Y): 3603476.32

Radius: 5000

#### \*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.