

Armando Martinez Operations Lead, Portfolio Operations Central



October 20, 2021

New Mexico Oil Conservation Division – District I 1625 N. French Drive Hobbs, New Mexico 88240

Re: 2021 Soil Assessment Report – NM AB State #2 Case No. 1RP-2470 Lea County, New Mexico

Dear Bradford Billings:

Chevron Environmental Management Company (CEMC) submits herein the 2021 Soil Assessment *Report* for 1RP-2470, NM AB State #2. The Site is located approximately 2.75 miles south of Buckeye, in Unit P, Section 6, Township 18 South, Range 35 East, Lea County, New Mexico. The Report was prepared by Arcadis U.S., Inc. (Arcadis), on behalf of CEMC. Based on the 2021 soil investigation data, additional assessment activities will be evaluated, and a proposed scope will be included in a Work Plan for review and approval to further delineate chloride impact in soil.

If you have any questions regarding this submittal, please contact Scott Foord of Arcadis at (713) 953-4853 or me at (505) 690 5408.

Respectfully,

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Armando Martinez

Encl. 2021 Soil Assessment Report - NM AB State #2

Armando Martinez Operations Lead Central Portfolio Operations - Central 354 State Highway 38, Questa, NM 87556-0469 Tel 575 586 7639 Mobile 505 690 5408 Fax 575 586 0811 amarti@chevron.com



Chevron Environmental Management Company

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NM AB State #2 Case No. 1RP-2470

September 2021

Prepared By:

Arcadis U.S., Inc. 10205 Westheimer Road, Suite 800 Houston Texas 77042 Phone: 713 953 4800 Fax: 713 977 4620

Prepared For: Armando Martinez Operations Lead Central Chevron Environmental Management Company P.O. Box 469 Questa, New Mexico 87556

Our Ref: 30091764

Morgan Jordan Task Manager I

2001

Scott Foord, PG Certified Project Manager

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www.arcadis.com NM AB State 2_Soil Assessment Report_2021_Final Released to Imaging: 2/24/2023 11:29:59 AM 2021 Soil Assessment Report

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- Appendix B. Photographic Log
- Appendix C. Laboratory Report
- Appendix D. Revised C-141 Form 1RP-2470

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2021 Soil Assessment Report

1 Introduction

Arcadis U.S., Inc. (Arcadis) prepared this Soil Assessment Report (Report), on behalf of Chevron Environmental Management Company (CEMC), summarizing the 2021 soil assessment activities conducted for the NM AB State #2 (Site).

2 **Project Summary**

The Site is approximately 2.75 miles south of Buckeye, in Unit P, Section 6, Township 18 South, Range 35 East, Lea County, New Mexico. A site location map is included as **Figure 1**.

On March 30, 2010, a grass fire melted a flow line releasing 2 barrels (bbls) of oil and 40 bbls of produced water. The Initial C-141 Form stated a vacuum truck reportedly removed the pooled liquid, recovering approximately 15 bbls of produced water. According to the New Mexico Office of the State Engineers (NMOSE) database, there is a water well approximately 0.20 miles west of the Site with a depth to groundwater of 60 feet below ground surface (bgs). The Initial C-141 Form for this release was submitted to the New Mexico Oil Conservation Division (NMOCD) on April 5, 2010 and approved by NMOCD on April 6, 2010. The release was assigned remediation permit number 1RP-2470. The Initial C-141 Form for this release is included in **Appendix A**.

On October 12-13, 2020, an initial soil assessment was conducted. Arcadis personnel collected soil samples from fifteen locations (SB-1 through SB-15) within the release area. Hand auger refusal was encountered in all soil borings at shallow depths. Analytical results associated with the assessment activities indicate that concentrations of chloride above the restoration screening criteria of 600 milligrams per kilogram (mg/kg) within the top 4 feet (ft) below ground surface (bgs) of the soil column are present in soil in the vicinity of SB-3 and SB-6. Based upon the findings presented in the 2020 report, additional soil assessment activities were recommended to further delineate the chloride impact in soil at the Site. The 2020 Soil Assessment Report was submitted to the NMOCD on August 17, 2021.

3 2021 Additional Soil Assessment

On July 13, 2021, Arcadis personnel collected soil samples based on analytical data evaluated from the prior soil assessment. Soil samples were collected from the previous assessed locations (SB-3 and SB-6) and an additional eight step out locations (SB-16 through SB-23) to further delineate the chloride impacts in soil. The soil samples were collected with a backhoe at depths ranging from the surface to approximately 2 ft bgs. Backhoe refusal was encountered within all boring locations. Boring logs were not generated due to the shallow depth of the borings. Each boring location was backfilled with the remaining excavated soil after sample collection. Soil sample locations are presented on **Figure 2**. A photographic log is presented in **Appendix B**. Sample containers (4 oz. glass jars) were supplied by Pace Analytical, and samples were collected and placed on ice for delivery to Pace Analytical in Midland, Texas.

The soil samples were analyzed for:

• Chloride by United States Environmental Protection Agency (USEPA) Method 300

4 Soil Analytical Results

The soil analytical results were compared to the revised New Mexico Administration Code (NMAC) screening levels for chloride for depth to groundwater 51-100 ft bgs (revised Rule 19.15.29). A summary of the soil sample

2021 Soil Assessment Report

analytical results is presented in **Table 1**. Copies of the certified analytical reports and chain-of-custody documentation from Pace Analytical are presented in **Appendix C**. The soil analytical map is presented in **Figure 3**.

4.1 Chloride

- Chloride concentrations were reported below the revised Rule 19.15.29 screening limit of 10,000 mg/kg at all sample locations. However, concentrations did exceed the revised Rule (19.15.29.13) restoration screening criteria of 600 mg/kg within the top 4 ft bgs of the soil column at four sample locations (SB-3, SB-6, SB-22, and SB-23).
 - o SB-3

- (1.5 – 2 ft) at 1,210 mg/kg

- o SB-6
 - (1.5 2 ft) at 865 mg/kg
- o SB-22
 - (0 0.5 ft) at 685 mg/kg
 - (1.5 1.75 ft) at 725 mg/kg
- o SB-23
 - (0-0.5 ft) at 1,720 mg/kg
 - (1.5 2 ft) at 1,000 mg/kg

5 **Conclusion**

- Analytical results associated with the recent assessment activities indicate that concentrations of chloride above the restoration screening criteria of 600 mg/kg within the top 4 ft bgs of the soil column are present in soil in the vicinity of (SB-3, SB-6, SB-22, and SB-23). During the recent assessment activities horizontal delineation was achieved in the vicinity of (SB-3 and SB-6).
- Based upon the findings presented in this report, additional soil assessment activities are recommended to further delineate the chloride impact in soil in the vicinity of SB-22 and SB-23. The revised C-141 Form is presented in **Appendix D**.

Tables

					1	1	1	1	1																				1					1								
Obtained.	Cnloride	(mg/kg)	10,000	*009	116	78.7	3,760	1,210	278	88.0	2,480	865	42.0	13.1	12.9	15.7	11.2	44.6	8.92	1.54	11.2	2.69	2.69	34.6	6.84	59.5	363	186	124	129	287	61.6	23.1 J	67.0	48.4	30.7	23.6	28.5	685	725	1,720	1,000
		(mg/kg)	2,500		6'06	337.0	389.0	AN	436.5	110.0	159.4	٧N	54.70	42.20 J	45.80 J	41.20 J	36.30 J	<14.70	11.30	<10.50	40.20	22.70	<10.80	<10.30	11.80	NA	AN	٧N	AA	NA	NA	٧N	٧V	AN	AN	VN	٧N	AN	NA	NA	٧N	MA
		(mg/kg)	:		32.8 J	136	149	NA	186	42.6 J	62.3	NA	22.4 J	10.2 J	12.0 J	11.4 J	10.7 J	<14.7	<10.6	<10.5	10.9	10.4	<10.8	<10.3	<11.3	NA	NA	NA	AA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	I otal GKU + DKU	(mg/kg)	1,000		58.1	201.0 J	240	NA	250.5	67.4	97.1	NA	32.3 J	32 J	1 08'EE	L 8.92	25.6 J	<14.7	11.3	<10.5	29.3	12.3	<10.8	<10.3	11.8	NA	AN	NA	NA	NA	AN	NA	NA	NA	NA	NA						
	0HU - HHI	(mg/kg)			58.1	190 J	240	NA	240	67.4	97.1	NA	20.8 J	11.7 J	17.1 J	13.4 J	11.9 J	<14.7	11.3	<10.5	15.9	12.3	<10.8	<10.3	11.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	1PH - GRO	(mg/kg)			<10.0	11.0 J	<10.4	NA	10.5 J	<10.1	<10.4	NA	11.5 J	20.3 J	16.7 J	16.4 J	13.7 J	<14.7	<10.6	<10.5	13.4	<10.2	<10.8	<10.3	<11.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
V-14-1		(mg/kg)	50		<0.0003470	<0.0003530	<0.0003620	NA	<0.0003480	<0.0003470	<0.0003570	NA	<0.0003440	<0.0003460	<0.0003450	<0.0003460	<0.0003530	0.008520	0.002546	0.006669	0.003425	0.003791	0.004210	0.001070	0.005642	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA							
	l otal Xylenes	(mg/kg)	;		<0.0003470	<0.0003530	<0.0003620	AN	<0.0003480	<0.0003470	<0.0003570	NA	<0.0003440	<0.0003460	<0.0003450	<0.0003460	<0.0003530	0.004280	0.001870	0.002273	0.001070	0.0009610	0.002520	<0.0003550	0.0009770	NA	NA	NA	AN	NA	NA	NA	AN	AN	NA	AN						
1	Etnylbenzene	(mg/kg)	1		<0.000569	<0.000580	<0.000594	AN	<0.000571	<0.000570	<0.000585	NA	<0.000565	<0.000567	<0.000566	<0.000567	<0.000579	0.00201	<0.000597	0.00147	<0.000569	0.00163	0.00169	<0.000582	0.000705	NA	NA	NA	AN	NA	NA	NA	AN	AN	NA	AN						
	Ioluene	(mg/kg)			<0.000459	<0.000468	<0.000479	AN	<0.000461	<0.000459	<0.000472	NA	<0.000455	<0.000457	<0.000456	<0.000457	<0.000467	<0.000668	<0.000482	0.00202	0.00168	<0.000466	<0.000497	<0.000469	0.00224	NA	NA	NA	AN	NA	NA	NA	AN	AN	NA	NA	AN	NA	NA	NA	NA	AN
	Benzene	(mg/kg)	10		<0.000388	<0.000395	<0.000405	AA	<0.000389	<0.000388	<0.000399	NA	<0.000385	<0.000386	<0.000386	<0.000386	<0.000394	0.00223	0.000676	0.000906	0.000675	0.00120	<0.000420	0.00107	0.00172	NA	AN	NA														
	Date			ents	10/12/20	10/12/20	10/12/20	07/13/21	10/12/20	10/12/20	10/12/20	07/13/21	10/12/20	10/12/20	10/12/20	10/12/20	10/12/20	10/13/20	10/13/20	10/13/20	10/13/20	10/13/20	10/13/20	10/13/20	10/13/20	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21	07/13/21
Sample	Depth (feet bgs)		NMAC Standards	n Requirem	0-0.5'	0-0.5'	0-0.5'	1.5-2'	0-0.5'	0-0.5'	0-0.5'	1.5-2'	0-0.5'	0-0.5'	0-0.5'	0-0.5'		05'	1	٦.	05'	05'	1'	0-0.5'	0-0.5'	0-0.5'	1.5-2'	0-0.5'	1.5-1.75	0-0.5'	1.5-1.75	0-0.5'	0-0.5'	1.5-2'	0-0.5'	1.5-2'	0-0.5'	1.5-1.75	0-0.5'	1.5-1.75	0-0.5'	1.5-2'
	Sample I.D. No.		NMAC	Restoration Requirements	SB-1	SB-2	ç	200	SB-4	SB-5	9 do	0-00	SB-7	SB-8	SB-9	CD 10	2	50 11		DUP 1 (SB-11)	SB-12	CD 13	2-00	SB-14	SB-15	CB-16		SB 17	l	CB_18		SB-19	DUP (SB-19)	SB-19	00 00	07-00	10 02	17-00	CB-32	77-00	SR-33	27-00

BOLD = Analytes exceeding restoration criteria for chloride Legend:

'<' indicates the analyte was not detected at or above the Method Detection Limit (MDL) J = The target analyte was positively identified below the quantitation limit and above the detection limit.

mg/kg. Miligram tray remove the second secon

Notes:

Chioride analyzed by United States Environmental Protection Agency Method 300 0
TPH analyzed by USEPA Method SW8015 Mod DROMRO
BTEX analyzed by USEPA Method SW8015
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Closure Criteria New Mexico Administrative Code 19. 15. 29. 12. E(2)

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Figures





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Initial C-141 Form 1RP-2470

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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 October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

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Date: April				96-4414 X 228		JUBNIT	FINAL C.	141 0	becs	IRP#10	4.2470
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Photographic Log









PHOTOGRAPHIC LOG

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Photo No. Date:	DIS Location: Lea County, NM	PHOTOGRAPHIC LOG Case No. 1RP-2470
Property Name: NM AB State #2	Location:	Case No.





Laboratory Report

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ARCADIS US - New	Mexico	
Sample Delivery Group:	L1378996	
Samples Received:	07/15/2021	
Project Number:	30091764- 0003B	
Description:	UEM238 - NM AB State #2	
Site:	NM AB STATE #2	
Report To:	Scott Foord	
	401 East Main Street	
	Suite 400	

Entire Report Reviewed By:

Erica Mc Neese

Erica McNeese Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be Analytical National is performed per guidance provided in laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

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SB-3-S-1.5-2-210713 L1378996-01 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 09:23	Received da 07/15/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707603 WG1711291	1 5	07/19/21 13:01 07/24/21 19:20	07/19/21 13:12 07/25/21 01:32	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-16-S-05-210713 L1378996-02 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 09:30	Received da 07/15/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707603 WG1711291	1 1	07/19/21 13:01 07/24/21 19:20	07/19/21 13:12 07/25/21 01:41	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-16-S-1.5-2-210713 L1378996-03 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 09:40	Received da 07/15/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707603 WG1711291	1 1	07/19/21 13:01 07/24/21 19:20	07/19/21 13:12 07/25/21 01:50	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-18-S-05-210713 L1378996-04 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 09:53	Received da 07/15/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707604 WG1711291	1 1	07/20/21 10:17 07/24/21 19:20	07/20/21 10:24 07/25/21 02:00	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-18-S-1.5-1.75-210713 L1378996-05 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 09:58	Received da 07/15/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707604 WG1711291	1 1	07/20/21 10:17 07/24/21 19:20	07/20/21 10:24 07/25/21 02:10	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-17-S-05-210713 L1378996-06 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 10:05	Received da 07/15/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707604 WG1711291	1 1	07/20/21 10:17 07/24/21 19:20	07/20/21 10:24 07/25/21 02:19	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-17-S-1.5-1.75-210713 L1378996-07 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 10:25	Received da 07/15/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707604 WG1711291	1 1	07/20/21 10:17 07/24/21 19:20	07/20/21 10:24 07/25/21 02:29	KDW ELN	Minneapolis, MN Mt. Juliet, TN

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SB-19-SD-05-210713 L1378996-08 Solid			Collected by Justin Steinmann	07/13/21 00:00	07/15/21 08:	30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707604 WG1711291	1 1	07/20/21 10:17 07/24/21 19:20	07/20/21 10:24 07/25/21 02:38	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-19-S-05-210713 L1378996-09 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 10:42	Received da 07/15/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707604 WG1711291	1 1	07/20/21 10:17 07/24/21 19:20	07/20/21 10:24 07/25/21 03:07	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-19-S-1.5-2-210713 L1378996-10 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 10:50	Received da 07/15/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707604 WG1711291	1 1	07/20/21 10:17 07/24/21 19:20	07/20/21 10:24 07/25/21 03:16	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-20-S-05-210713 L1378996-11 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 11:01	Received da 07/15/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707604 WG1711291	1 1	07/20/21 10:17 07/24/21 19:20	07/20/21 10:24 07/25/21 03:54	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-20-S-1.5-2-210713 L1378996-12 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 11:15	Received da 07/15/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707604 WG1711291	1 1	07/20/21 10:17 07/24/21 19:20	07/20/21 10:24 07/25/21 04:04	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-6-S-1.5-2-210713 L1378996-13 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 11:50	Received da 07/15/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707604 WG1711291	1 1	07/20/21 10:17 07/24/21 19:20	07/20/21 10:24 07/25/21 04:13	KDW ELN	Minneapolis, MN Mt. Juliet, TN
SB-21-S-05-210713 L1378996-14 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 13:15	Received da 07/15/21 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1707605 WG1711291	1 1	07/20/21 10:06 07/24/21 19:20	07/20/21 10:14 07/25/21 04:23	KDW ELN	Minneapolis, MN Mt. Juliet, TN

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SAMPLE SUMMARY

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SB-21-S-1.5-1.75-210713 L1378996-15 Solid			Collected by Justin Steinmann	Collected date/time 07/13/21 13:20	Received d 07/15/21 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1707605	1	07/20/21 10:06	07/20/21 10:14	KDW	Minneapolis, MN
Wet Chemistry by Method 300.0	WG1711291	1	07/24/21 19:20	07/25/21 04:32	ELN	Mt. Juliet, TN
			Collected by	Collected date/time	Received d	ate/time
SB-22-S-05-210713 L1378996-16 Solid			Justin Steinmann	07/13/21 13:48	07/15/21 08	:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1707605	1	07/20/21 10:06	07/20/21 10:14	KDW	Minneapolis, Mi
Wet Chemistry by Method 300.0	WG1711291	1	07/24/21 19:20	07/25/21 05:01	ELN	Mt. Juliet, TN
			Collected by	Collected date/time	Received d	ate/time
SB-22-S-1.5-1.75-210713 L1378996-17 Solid			Justin Steinmann	07/13/21 13:56	07/15/21 08	:30
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1707605	1	07/20/21 10:06	07/20/21 10:14	KDW	Minneapolis, MI
Wet Chemistry by Method 300.0	WG1711291	1	07/24/21 19:20	07/25/21 05:10	ELN	Mt. Juliet, TN
			Collected by	Collected date/time	Received d	ate/time
SB-23-S-05-210713 L1378996-18 Solid			Justin Steinmann	07/13/21 14:20	07/15/21 08	:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1707605	1	07/20/21 10:06	07/20/21 10:14	KDW	Minneapolis, Mi
Wet Chemistry by Method 300.0	WG1711291	5	07/24/21 19:20	07/25/21 05:20	ELN	Mt. Juliet, TN
			Collected by	Collected date/time	Received d	ate/time
SB-23-S-1.5-2-210713 L1378996-19 Solid			Justin Steinmann	07/13/21 14:30	07/15/21 08	:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1707605	1	07/20/21 10:06	07/20/21 10:14	KDW	Minneapolis, MI
Wet Chemistry by Method 300.0	WG1711291	1	07/24/21 19:20	07/25/21 05:29	ELN	Mt. Juliet, TN

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CASE NARRATIVE

Erica Mc Neese

Erica McNeese Project Manager

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SAMPLE RESULTS - 01 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	- Ср
Analyte	%			date / time		2
Total Solids	91.1		1	07/19/2021 13:12	WG1707603	Tc

Wet Chemisti	Wet Chemistry by Method 300.0									
Result (dry) <u>Qualifier</u> MDL (dry) RDL (dry) Dilution Analysis <u>Batch</u>										
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn	
Chloride	1210		50.5	110	5	07/25/2021 01:32	WG1711291			

SAMPLE RESULTS - 02 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	77.9		1	07/19/2021 13:12	<u>WG1707603</u>	¯Тс

Wet Chemistry	Wet Chemistry by Method 300.0									
Result (dry) <u>Qualifier</u> MDL (dry) RDL (dry) Dilution Analysis <u>Batch</u>										
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn	
Chloride	59.5		11.8	25.7	1	07/25/2021 01:41	WG1711291		CII	

SAMPLE RESULTS - 03 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	92.2		1	07/19/2021 13:12	<u>WG1707603</u>	¯Тс

Wet Chemistry	Wet Chemistry by Method 300.0									
Result (dry) <u>Qualifier</u> MDL (dry) RDL (dry) Dilution Analysis <u>Batch</u>										
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴Cn	
Chloride	363		9.98	21.7	1	07/25/2021 01:50	WG1711291			

SAMPLE RESULTS - 04 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	80.5		1	07/20/2021 10:24	<u>WG1707604</u>	Tc

Wet Chemist	Wet Chemistry by Method 300.0									
Result (dry) <u>Qualifier</u> MDL (dry) RDL (dry) Dilution Analysis <u>Batch</u>										
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn	
Chloride	129		11.4	24.9	1	07/25/2021 02:00	WG1711291			

SAMPLE RESULTS - 05 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	82.1		1	07/20/2021 10:24	<u>WG1707604</u>	Тс

Wet Chemisti	Wet Chemistry by Method 300.0									
Result (dry) <u>Qualifier</u> MDL (dry) RDL (dry) Dilution Analysis <u>Batch</u>										
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴Cn	
Chloride	287		11.2	24.3	1	07/25/2021 02:10	WG1711291		СП	

SAMPLE RESULTS - 06 L1378996

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	76.4		1	07/20/2021 10:24	WG1707604	¯Тс

Wet Chemistr	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn	
Chloride	186		12.0	26.2	1	07/25/2021 02:19	WG1711291		СП	



SAMPLE RESULTS - 07 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	77.5		1	07/20/2021 10:24	WG1707604	Tc

Wet Chemistry by Method 300.0									ຶSs
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	124		11.9	25.8	1	07/25/2021 02:29	WG1711291		СП

SAMPLE RESULTS - 08 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	82.4		1	07/20/2021 10:24	WG1707604	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			4 Cn
Chloride	23.1	J	11.2	24.3	1	07/25/2021 02:38	<u>WG1711291</u>		

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SAMPLE RESULTS - 09 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	75.0		1	07/20/2021 10:24	WG1707604	Тс

Wet Chemistry by Method 300.0									Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	61.6		12.3	26.7	1	07/25/2021 03:07	<u>WG1711291</u>		СП

SAMPLE RESULTS - 10 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	79.8		1	07/20/2021 10:24	WG1707604	¯Тс

Wet Chemistry by Method 300.0									Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	67.0		11.5	25.1	1	07/25/2021 03:16	WG1711291		
SAMPLE RESULTS - 11 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	74.2		1	07/20/2021 10:24	WG1707604	ЪС

Wet Chemist	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			4 Cn	
Chloride	48.4		12.4	26.9	1	07/25/2021 03:54	<u>WG1711291</u>		СП	

SAMPLE RESULTS - 12 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	84.5		1	07/20/2021 10:24	WG1707604	^ˆ Тс

Wet Chemistr	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			4 Cn	
Chloride	30.7		10.9	23.7	1	07/25/2021 04:04	<u>WG1711291</u>		CII	

SAMPLE RESULTS - 13 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	87.5		1	07/20/2021 10:24	WG1707604	¯Тс

Wet Chemist	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn	
Chloride	865		10.5	22.9	1	07/25/2021 04:13	<u>WG1711291</u>		CII	

SAMPLE RESULTS - 14 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	88.5		1	07/20/2021 10:14	WG1707605	Tc

Wet Chemisti	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴Cn	
Chloride	23.6		10.4	22.6	1	07/25/2021 04:23	WG1711291		СП	

SAMPLE RESULTS - 15 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	84.6		1	07/20/2021 10:14	WG1707605	Tc

Wet Chemistr	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn	
Chloride	28.5		10.9	23.6	1	07/25/2021 04:32	WG1711291		CII	

SAMPLE RESULTS - 16 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	79.6		1	07/20/2021 10:14	WG1707605	¯Тс

Wet Chemistr	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn	
Chloride	685		11.6	25.1	1	07/25/2021 05:01	WG1711291			

SAMPLE RESULTS - 17 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	78.7		1	07/20/2021 10:14	WG1707605	¯Тс

Wet Chemist	ry by Method 300	0.0						ິSs
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	725		11.7	25.4	1	07/25/2021 05:10	WG1711291	СП

SAMPLE RESULTS - 18 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	76.2		1	07/20/2021 10:14	WG1707605	ЪС

Wet Chemist	ry by Method 300	0.0						ິSs
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	1720		60.4	131	5	07/25/2021 05:20	WG1711291	



SAMPLE RESULTS - 19 L1378996

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	81.1		1	07/20/2021 10:14	WG1707605	ЪС

Wet Chemist	ry by Method 300	0.0						Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	1000		11.3	24.7	1	07/25/2021 05:29	<u>WG1711291</u>	CII

WG170760	3 10d 2540 G-2011			Q	QUALITY CONTROL	CONTROL SUMMARY			Rece
period Blank (M	B)								vived l
(MB) R3681386-1 07/19/21 13:12 MB Result MB Result MB	/2113:12 MB Result %	MB Qualifier	MB MDL %	MB RDL %					by OCD:
Solids	0.000								11/:
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2005) L1378958-02 07/1	9/21 13:12 • (DUP) F	3681386-3 C	17/19/21 13:1	2					548
1:29	Original Result	DUP Result	Dilution DUP RPD	Q	DUP Qualifier DUP RPD Limits				:32 10
2.59	%	%		%	%				AM ה
Total Solids 83.0 82.2 1 1.00	83.0	82.2		1.00	10				6 QC
Laboratory Control Sample (LCS)	ol Sample (LC	(S							⁷ G
(LCS) R3681386-2 07/19/21 13:12									5
	ke Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				۵ ۵
Analyte		%	%	%					;
Total Solids	20.0	20.0	00	85.0-115					Son Page 4
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	ACCOUNT:			Ч	PROJECT:	SDG:	DATE/TIME:	PAGE:	60
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WG1707604	 od 2540 G-2011			gL	QUALITY CONTROL SUMN 11378996-04.05.06.07.08.0910.11.12.13	L SUMMARY 09.10.11.12.13			Rece
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0 (MB) R3681878-1 07/20/2110:24 MB Result MB • MB	/2110:24 MB Result MB %	Qualifier	MB MDL %	MB RDL %					by OCD: ∼
5 Total Solids	0.000								11/3
9iio 60-9668/217 2/24/202	ginal Sample (09	s) • Dupl	icate (D	(UP)					8/2021 8
2/OS) L1378996-09 07/2	:0/2110:24 • (DUP) R36	681878-3 0	7/20/2110	.24					548
1:29	Original Result DUR	P Result	Dilution DUP RPD	Q	DUP Qualifier DUP RPD Limits				:32 10
essential states and the second states and t	%		0.	9	%				AM
Total Solids 75.0 75.4 1 0.539	75.0 75.4	_	-).539	10				6 QC
Laboratory Control Sample (LCS)	ol Sample (LCS)								U J
(LCS) R3681878-2 07/20/21 10:24	0/2110:24								5
	ke Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				~
Analyte			%	%					Ī
Total Solids	50.0		0	85.0-115					Soft Page 47
					LICTT.				of (
ARCAD	ACCOUNT: ARCADIS US - New Mexico			3009176	PKUJEC1: 30091764- 0003B	SUG: L1378996	DA I E/ I IME: 07/28/21 17:18	PAGE: 27 of 33	50

WG170760	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-		Ø	QUALITY CON	CONTROL SUMMARY 11338966-14 15 16 17 18 19			Rec
pMethod Blank (I	MB)								eived
0 (MB) R3681877-1 07/20/2110:14 MB Result MB Result MB Result 8	20/21 10:14 MB Result %	MB Qualifier	MB MDL %	MB RDL %					by OCD:
Total Solids	0.000								11 /.
10 10-0006/21 ⁻ 2/24/202	'iginal Sample	(OS) • Dup	olicate (E	(AUt					3/2021 8 5 7
1 (OS) L1379000-01 07	/20/21 10:14 • (DUP)	R3681877-3 (07/20/21 10:	14					548
1:29	Original Result	DUP Result	Dilution DUP RPD		DUP Qualifier DUP RPD Limits				:32 10
esteration of the second s	%	%		%	%				AM ה
W otal Solids 88.6 87.2 1 1.55	88.6	87.2		1.55	10				° C C
Laboratory Control Sample (LCS)	trol Sample (L(CS)							_ ∠
(LCS) R3681877-2 07/20/21 10:14	/20/21 10:14								5
	Spike Amount		LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	%	%	%	%					-
	0. 0. 0.	D. D.		8 					U S S
									48 (
	ACCOUNT:			ď	PROJECT:	SDG:	DATE/TIME:	PAGE:	of 6
ARC	ARCADIS US - New Mexico	0		3008	30091764- 0003B	L1378996	07/28/2117:18	28 of 33	0

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DUPRPD Limits 8 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
DUP RPD Limits & 20 20 Limits & 20 20 20	<u>MB Qualifier</u> MB MDL MB RDL mg/kg mg/kg
DUP RPD Limits & 20 DUP RPD Limits % 20 20	9.20 20.0
DUP RP Limits 20 20 BUP RP Limits 20 20 20	1378996-10 Original Sample (OS) • Duplicate (DUP)
20 DUP RPD Limits & 20 20 20 20 20 20 20 20 20 20	3683759-3 07/25/21 03:26
20 DUP RPD Limits 20 20	UVP Result Dilution DUP RPD <u>DUP Qualifier</u> (dry) mg/kg %
DUP RPD Limits % 20	61.6 1 8.40
DU RPD Limits % 20 31 31 31 31 31 31 31 31 31 31 31 31 31	L1378996-19 Original Sample (OS) • Duplicate (DUP)
20 20 Julifier	(OS) L1378996-19 07/25/21 05:29 • (DUP) R3683759-6 07/25/21 05:39
	DUP Result Dilution DUP RPD <u>DUP Qualifier</u> (dry) mg/kg %
	1130 1 12.1
Vulifier	Laboratory Control Sample (LCS)
ualifier	
	LCS Result LCS Rec. Rec. Limits <u>LCS (</u> mg/kg % %
	96.6 90.0-110
	(OS) L1378996-10 07/25/21 03:16 • (MS) R3683759-4 07/25/21 03:35 • (MSD) R3683759-5 07/25/21 03:45 Spike Amount Original Result MS Result (dry) MSD Result MS Result MS Result MS Result MS Rec. MSD R
07/25/21 03:45 sc. MSD Rec. Dilution Rec. Limits <u>MS Qualifier</u> RPD RPD Limits	mg/kg mg/kg %
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ac. Dilution Rec. Limits MS Qualifier RPD % % % % 1 80.0-120 0.386	
ec. Dilution Rec. Limits <u>MS Qualifier</u> <u>MSD Qualifier</u> RPD % 1 80.0-120 0.386	PROJECT: 30091764-0003B

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description

J

The identification of the analyte is acceptable; the reported value is an estimate.

SDG: L1378996

Received by OCD: 11/3/2021 8:48:32 AMCCCREDITATIONS & LOCATIONS

	Page	51	of	60
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Τс

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Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
_ouisiana	AI30792	Tennessee ¹⁴	2006
ouisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

SDG: L1378996 DATE/TIME: 07/28/21 17:18

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401 East Main Street Suite 400			Suite 400 El Paso, TX 79901	10662)	_			Pace Analytical	tical
Report to: Scott Foord			Email To: william.foord	d@arcadis.com	Email To: william.foord@arcadis.com;douglas.jordan@arc	@arc		12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custor	22 tody
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Phone: 915-747-3902	Client Project # 30091764- 0003B	# 0003B		Lab Project # CHEVARCNI	1 4		OPtes	spg# L 137849	2
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53-16-5-1.5-2-210713	J	SS	5-5-1	-	0440	1	×		60
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58-17-8-0-5-213	G	SS	5-0		1001	1	×		66
517-15-11-S-1.1-22	D	SS	21.(-S.)		1025	1	×	9	60
51-19-50-02-61-85	J	SS	٥5		1	1	×		68
512012-5-0-5-61-85	5	SS	05		loya	1	×		60
58-19-5-1-5-2-210713	5	SS	1.5.2	-	1050	1	×		10
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Revised C-141 Form 1RP-2470

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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Page 55 of 60

Incident ID	NLWJ1009639651
District RP	1RP-2470
Facility ID	NA
Application ID	NA

Release Notification

Responsible Party

Responsible Party: Chevron USA	OGRID: 4323
Contact Name: Armando Martinez	Contact Telephone: 505-690-5408
Contact email: amarti@chevron.com	Incident # (assigned by OCD) NLWJ1009639651
Contact mailing address:	

Location of Release Source

Latitude 32.77149_

Longitude -103.49025_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: NM AB State #2	Site Type: Produced water release
Date Release Discovered: 03/10/2010	API# (if applicable): 30-025-03085

Unit Letter	Section	Township	Range	County
Р	6	18S	35E	Lea

Surface Owner:	State	Federal	Tribal	☐ Private
Surface Owner.				

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

🔀 Crude Oil	Volume Released (bbls): 2	Volume Recovered (bbls):
Produced Water	Volume Released (bbls): 40	Volume Recovered (bbls): 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	$ \underline{Yes} No$
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
ause of Release: A gra	ass fire melted a flow line.	

III C-141	1 8:48:32 AM State of New Mexico	Incident ID	NLWJ1009639651
ge 2	Oil Conservation Division	District RP	1RP-2470
		Facility ID	NA
		Application ID	NA
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible part than 25 barrels.	y consider this a major release	? Release was greater
release as defined by		y consider this a major release	? Release was greater

Oil Conservation Division

	rage 57 0j 0
Incident ID	NLWJ1009639651
District RP	1RP-2470
Facility ID	NA
Application ID	NA

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>60 (ft bgs)</u>
Did this release impact groundwater or surface water?	□ Yes ⊠ <u>No</u>
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ <u>No</u>
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ <u>No</u>
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ <u>No</u>
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ <u>No</u>
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	□ Yes ⊠ <u>No</u>
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	□ Yes ⊠ <u>No</u>
Are the lateral extents of the release within 300 feet of a wetland?	□ Yes ⊠ <u>No</u>
Are the lateral extents of the release overlying a subsurface mine?	□ Yes ⊠ <u>No</u>
Are the lateral extents of the release overlying an unstable area such as karst geology?	□ Yes ⊠ <u>No</u>
Are the lateral extents of the release within a 100-year floodplain?	□ Yes ⊠ <u>No</u>
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 <u>No</u>

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Attached. Field data: Attached.

Data table of soil contaminant concentration data: Attached.

Depth to water determination: 51-100 feet bgs

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release: None identified.

Boring or excavation logs: Shallow refusal was encountered.

Photographs including date and GIS information: Photographic log attached.

Topographic/Aerial maps; **Topographic map attached.**

Laboratory data including chain of custody: Attached.

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

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Page 3

	8:48:32 AM State of New Mexico	Page 58 of	
'onn C-141		Incident ID	NLWJ1009639651
Page 4	Oil Conservation Division	District RP	1RP-2470
		Facility ID	NA
		Application ID	NA
regulations all operators are rec public health or the environmen failed to adequately investigate	ation given above is true and complete to the best of my k quired to report and/or file certain release notifications and nt. The acceptance of a C-141 report by the OCD does no e and remediate contamination that pose a threat to ground C-141 report does not relieve the operator of responsibili <u>lartinez</u> Title: Environmental Project Manager	l perform corrective actions for re trelieve the operator of liability s water, surface water, human healt	leases which may endanger hould their operations have th or the environment. In
Signature:			
	on.com	Date: _10/20/21_ Telephone: 505-690-	
	n.com		
email: amarti@chevro	n.com		
email: amarti@chevro	n.com		
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Arcadis U.S., Inc. 10205 Westheimer Road, Suite 800 Houston Texas 77042 Phone: 713 953 4800 Fax: 713 977 4620 www.arcadis.com

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator: C	OGRID:
CHEVRON U S A INC	4323
6301 Deauville Blvd A	Action Number:
Midland, TX 79706	59735
4	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By	Condition	Condition Date
amaxwell	Accepted for information only.	2/24/2023
amaxwell	Proceed with additional delineation.	2/24/2023
amaxwell	Submit a report via the OCD permitting portal by 6/2/2023.	2/24/2023

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Action 59735