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

)

Incident ID	
	nAUTOfAB000420
District RP	1RP-258
Facility ID	fAB0000000273
Application ID	pENV00001RP258

Release Notification

Responsible Party

Responsible Party: Chevron USA Inc.	OGRID: Not Applicable
Contact Name: Armando Martinez	Contact Telephone: 575.586.7639
Contact email: amarti@chevron.com	Incident # (assigned by OCD) nAUTOfAB000420
Contact mailing address:	

Location of Release Source

Latitude 32.643018

Longitude -103.301158 (NAD 83 in decimal degrees to 5 decimal places)

Site Name NM F State	Site Type: former tank battery and reserve pit
Date Release Discovered: Unknown, Pit discovered sometime after 1986	API# (if applicable) Not Applicable

Unit Letter	Section	Township	Range	County
Ι	24	19S	36E	Lea

Surface Owner: State Federal Tribal Private (Name:_____

Nature and Volume of Release

🔀 Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) Unknown
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	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)

Unknown. The tank battery and reserve pit are visible in aerial photographs dated February 1949, July 1983, and June 1986. Sometime after 1986, an earthen emergency reserve pit was located approximately 175 feet north of the tank battery. The former reserve pit was subsequently unearthed during construction of a production facility immediately south of the pit by the Amerada-Hess Corporation.

<i>xervea by OCD: 5/16/202</i> rm C-141	3 1:26:01 PM State of New Mexico		Page 2
2	Oil Conservation Division	Incident ID	nAUTOfAB000420
2		District RP	1RP-258
		Facility ID	fAB0000000273
		Application ID	pENV00001RP258
Vas this a major	If YES, for what reason(s) does the responsible party	**	•
elease as defined by			
9.15.29.7(A) NMAC?	Unknown release amount. Considered major release.		
🛛 Yes 🗌 No			
			_
	otice given to the OCD? By whom? To whom? When	n and by what means (phone, o	email, etc)?
Jnknown.			
	Initial Response		
_	-		
The responsible	party must undertake the following actions immediately unless they o	could create a safety hazard that would	ld result in injury
The source of the rele	ease has been stopped.		
The impacted area ha	s been secured to protect human health and the environ	nment.	
	ave been contained via the use of berms or dikes, absor		nt devices
		-	
	ecoverable materials have been removed and managed	appropriately.	
f all the actions describe	d above have <u>not</u> been undertaken, explain why:		
has begun, please attach	IAC the responsible party may commence remediation a narrative of actions to date. If remedial efforts have at area (see $19.15.29.11(A)(5)(a)$ NMAC), please attack	e been successfully completed	l or if the release occurre
	rmation given above is true and complete to the best of my k		
	required to report and/or file certain release notifications and		
	ment. The acceptance of a C-141 report by the OCD does no ate and remediate contamination that pose a threat to ground		

Printed Name: <u>Armando Martinez</u>______ Title: <u>Operations Lead</u>

addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws

Date: <u>5/10/2023</u>

Signature:

and/or regulations.

R р

email: amarti@chevron.com

Telephone: <u>575.586.7639</u>

Date: _____

OCD Only

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Page 3

Oil Conservation Division

nAUTOfAB000420
1RP-258
fAB0000000273
pENV00001RP258

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>62</u> (ft bgs)
Did this release impact groundwater or surface water?	🛛 Yes 🗌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🛛 Yes 🗌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs- Not Applicable
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 5/16/2023 1:26:01 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division I hereby certify that the information given above is true and complete to the best of my knowledg regulations all operators are required to report and/or file certain release notifications and perform public health or the environment. The acceptance of a C-141 report by the OCD does not relieve failed to adequately investigate and remediate contamination that pose a threat to groundwater, su	n corrective actions for rele the operator of liability sh	eases which may endanger ould their operations have or the environment. In
I hereby certify that the information given above is true and complete to the best of my knowledg regulations all operators are required to report and/or file certain release notifications and perform public health or the environment. The acceptance of a C-141 report by the OCD does not relieve	Facility ID Application ID e and understand that purs a corrective actions for rele the operator of liability sh	1RP-258 fAB0000000273 pENV00001RP258 uant to OCD rules and eases which may endanger ould their operations have or the environment. In
regulations all operators are required to report and/or file certain release notifications and perform public health or the environment. The acceptance of a C-141 report by the OCD does not relieve	Facility ID Application ID e and understand that purs a corrective actions for rele the operator of liability sh	fAB0000000273 pENV00001RP258 uant to OCD rules and eases which may endanger ould their operations have or the environment. In
regulations all operators are required to report and/or file certain release notifications and perform public health or the environment. The acceptance of a C-141 report by the OCD does not relieve	Application ID e and understand that purs a corrective actions for rele the operator of liability sh	pENV00001RP258 uant to OCD rules and eases which may endanger ould their operations have or the environment. In
regulations all operators are required to report and/or file certain release notifications and perform public health or the environment. The acceptance of a C-141 report by the OCD does not relieve	e and understand that purs a corrective actions for rele the operator of liability sh	uant to OCD rules and eases which may endanger ould their operations have or the environment. In
regulations all operators are required to report and/or file certain release notifications and perform public health or the environment. The acceptance of a C-141 report by the OCD does not relieve	n corrective actions for rele the operator of liability sh	eases which may endanger ould their operations have or the environment. In
addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for cor and/or regulations.	npliance with any other fe	
Signature:	Date: <u>5/10/202</u>	3
email: <u>amarti@chevron.com</u> Telephone:	575.586.7639	
OCD Only Received by: Date:		



Armando Martinez Operations Lead, Portfolio Operations Central

May 5, 2023

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

Re: Former New Mexico "F" State Tank Battery 2022 Annual Groundwater Monitoring Report Case No. 1RP-258 Lea County, New Mexico

To whom it may concern:

Chevron Environmental Management Company (CEMC) submits herein the 2022 Annual Groundwater Monitoring Report for the Former New Mexico "F" State Tank Battery (Site). The Site is located approximately three miles northwest of Monument, in Section 24 - Township 19 South - Range 36 East, Lea County, New Mexico. The Report was prepared by Arcadis U.S., Inc. (Arcadis), on behalf of CEMC to document on-going groundwater monitoring and remediation activities throughout 2022 at the Site.

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,

And mit

Armando Martinez Operations Lead Central

Encl. Former New Mexico "F" State Tank Battery - 2022 Annual Groundwater Monitoring Report

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



REVIEWED By Mike Buchanan at 11:33 am, Aug 02, 2023

Chevron Environmental Management Company

2022 Annual Groundwater Monitoring Report

Former New Mexico "F" State Tank Battery Section 24, Township 19 South, Range 36 East Lea County, New Mexico Case No. 1RP-258

May 5, 2023

Review of the 2022 Annual Groundwater Report for F State Tank Battery submitted on behalf of Chevron: **Content Satisfactory**

1. Request to reduce LNAPL Recovery and Gauging is granted for one (1) year to allow conditions at the site to equilibrate.

2. Monitoring wells: MW3, MW-4, MW-5, MW-7, MW-8, MW-9R, WW-1, and WW-2 may be reduced from sampling events.

 Continue all other monitoring activities for the site
 Submit the 2023 Annual Groundwater monitoring report by April 1, 2024.

2022 Annual Groundwater Monitoring Report

Former New Mexico "F" State Tank Battery Section 24, Township 19 South, Range 36 East Lea County, New Mexico Case No. 1RP-258

May 5, 2023

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: 30049835

Morgan Jordan Project Manager

2001

Scott Foord, PG Program Manager

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Figure 2. Site Details Map

Figure 3. Quarterly Potentiometric Surface Maps 2022

Figure 4. 2022 BTEX & Chloride Sample Results Map

Appendices

Appendix A.	Site Background
Appendix B.	Groundwater Monitoring and LNAPL Operation and Maintenance (O&M) Reduction Workplan
Appendix C.	Field Methodology and Documentation
Appendix D.	Cumulative Summary of Groundwater Potentiometric Elevation Data
Appendix E.	Cumulative Summary of Groundwater Analytical Results
Appendix F.	Analytical Reports

1 Introduction

Arcadis U.S., Inc. (Arcadis) has prepared this report for Chevron Environmental Management Company (CEMC), which summarizes 2022 groundwater monitoring activities at the Former New Mexico "F" State Tank Battery (Site).

The Site is located on Lea County Road 41 (Maddox Road), approximately three miles northwest of Monument, in the northeast quarter (NE/4) of the southeast quarter (SE/4), Section 24, Township 19 South, Range 36 East, Lea County, New Mexico. The Site's coordinates are latitude 32.643018 and longitude -103.301158.

A Site Location Map is presented as **Figure 1**. A Site Details Map is presented as **Figure 2**. Additional Site background information is presented in **Appendix A**.

A Proposed Groundwater Monitoring and Light Non-aqueous Phase Liquid (LNAPL) Operation and Maintenance (O&M) Reduction Workplan (Reduction Workplan) was submitted to the New Mexico Oil Conservation Division (NMOCD) in July 2020 which included:

- One semi-annual monitoring event (full Site) consisting of sampling and gauging of all Site wells (seven monitoring wells and four recovery wells).
- A second semi-annual sampling event consisting of sampling of monitoring wells MW-6, RW-2, and RW-3 only.
- Two additional groundwater gauging and sampling events conducted during the first and third quarters of a calendar year consisting of sampling of sentry well MW-6 to ensure the dissolved-phase plume is not migrating southwest towards the off-site water wells (WW-1 and WW-2).

Site monitoring wells with chemicals of concern (COC) concentrations reported below New Mexico Water Quality Control Commission (NMWQCC) exceedance standards for two consecutive years or longer were not gauged or sampled during the second semi-annual monitoring event except for sentry well MW-6. Additionally, the frequency of LNAPL gauging and hand-bailing activities were reduced from bi-weekly to quarterly gauging only (no hand-bailing) for one year (through August 2021) to allow LNAPL conditions at the Site to equilibrate so that a more practical/efficient LNAPL recovery method could be evaluated.

Quarterly gauging only (no hand-bailing) was initiated in July 2020 and conducted through August 2021. Monthly LNAPL gauging and hand-bailing was re-initiated in September 2021 and conducted through May 2022. In May 2022, LNAPL skimmer pumps were re-installed in recovery wells (RW-1 and RW-4) and bi-weekly operation and maintenance (O&M) activities were re-initiated and are currently in operation.

The Reduction Workplan submitted to NMOCD in July 2020 is presented in **Appendix B**. Activities at the Site have been conducted in accordance with the Workplan since its submittal.

2 Groundwater Monitoring Results

The Site is currently monitored with a network of seven monitoring wells and four recovery wells. Arcadis performed semi-annual groundwater sampling events on June 8-9, 2022, and November 18, 2022. Sentry well MW-6 was additionally sampled on March 8, 2022, and August 15, 2022. Field monitoring methodologies are detailed in **Appendix C**.

2.1 Groundwater Gauging Data

Site-wide gauging was conducted during the first and second semi-annual groundwater sampling events and the two additional sampling events at sentry well MW-6.

Groundwater and LNAPL measurements collected during the quarterly monitoring events conducted in 2022 indicated:

- Groundwater elevations ranged from:
 - 3,637.82 feet above mean sea level (ft AMSL) (MW-7) to 3,640.93 ft AMSL (RW-1) during the March 2022 event,
 - o 3,637.69 ft AMSL (MW-7) to 3,641.15 ft AMSL (RW-1) during the June 2022 event,
 - o 3,637.38 ft AMSL (MW-7) to 3,640.69 ft AMSL (RW-1) during the August 2022 event, and
 - 3,637.24 ft AMSL (MW-7) to 3,640.56 ft AMSL (RW-1) during the November 2022 event (Reduced Sampling/Gauging Event).
- The groundwater elevations observed during 2022 appear to be consistent with historical levels, with groundwater flow generally to the southeast.
- The calculated gradients were:
 - o 0.024 ft/ft for the March 2022 gauging event,
 - o 0.012 ft/ft for the June 2022 gauging event,
 - o 0.013 ft/ft for the August 2022 gauging event, and
 - o 0.016 ft/ft for the November 2022 gauging event.

Groundwater elevation data for the sampling events is presented in **Table 1**. Groundwater potentiometric surface maps for March, June, August, and November 2022 are presented in **Figure 3**. A cumulative summary of groundwater potentiometric elevation data is presented in **Appendix D**.

2.2 LNAPL Occurrence and Recovery

- LNAPL was present in the four recovery wells (RW-1 through RW-4) during the 2022 monitoring events.
- Monthly LNAPL abatement activities (gauging and hand bailing) were conducted on a monthly basis through May 2022.
- In May 2022, LNAPL skimmer pumps were re-installed in recovery wells (RW-1 and RW-4) and bi-weekly operation and maintenance (O&M) activities were re-initiated.

The range of LNAPL thicknesses gauged in 2022 were:

- 3.39 feet to 4.99 feet in RW-1,
- 0.02 feet to 0.58 feet in RW-2,
- 0.01 feet to 0.61 feet in RW-3, and
- 4.05 feet to 4.75 feet in RW-4.

LNAPL thicknesses gauged in 2022 are included in **Table 1** and with historical data in **Appendix D**. The distribution and extent of LNAPL during the 2022 quarterly monitoring events are presented in **Figure 3**.

2.2.1 LNAPL Recovery

- Approximately 320 gallons of LNAPL/water mixture were recovered via hand bailing and skimmer system in 2022.
- The cumulative amount of LNAPL/water mixture recovered via the skimmer system during its installation from November 2006 through March 2017 was approximately 3,315 gallons and the amount recovered by hand bailing from April 2017 through 2021 was approximately 136 gallons.
- The cumulative amount of LNAPL recovered (including vapors) during the fifteen mobile dual phase extraction (MDPE) events conducted from 2011 through 2015 was 1,539 gallons.
- Collectively, an approximate total of 5,310 gallons of LNAPL/water mixture have been recovered and removed from the Site since 2006.

2.3 Groundwater Analytical Results

Seven monitoring wells were sampled at the site during the 2022 sampling period. Groundwater analytical results for benzene, toluene, ethylbenzene, xylenes (BTEX) and chloride were compared to the NMWQCC Groundwater Standards. A summary of the groundwater sample analytical results is presented in **Table 2**.

Cumulative summary tables of potentiometric elevation data and groundwater analytical results are presented in **Appendices D** and **E**, respectively. Copies of the certified analytical reports and chain-of-custody documentation from Pace Analytical are provided in **Appendix F**.

BTEX and chloride sample results for the 2022 groundwater monitoring period are presented on **Figure 4**. The groundwater analytical results are further summarized below.

2.3.1 BTEX

• BTEX constituents were not detected during the 2022 monitoring period.

2.3.2 Chloride

• Chloride concentrations did not exceed the NMWQCC standard of 250 milligrams per liter (mg/L) during the 2022 monitoring period.

3 2023 Planned Activities

- LNAPL skimmer pumps were re-installed in recovery wells (RW-1 and RW-4) in May 2022, and bi-weekly operation and maintenance (O&M) activities were re-initiated and are planned to be continued in 2023.
- Semi-annual groundwater sampling events are scheduled for the second and fourth quarters of 2023 in accordance with the Reduction Workplan. Sentry well MW-6 will continue to be gauged and sampled on a quarterly schedule to ensure that the plume is not migrating southwest toward the off-site water wells.

Tables

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Table 1

2022 Summary of Groundwater Gauging Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Well ID toc elevation	Date	Depth to Groundwater (ft toc²)	Depth to LNAPL (ft toc²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl³)	Total Well Depth (ft toc²)	Well Diameter (inches)	Well Screen Interval (ft bgs⁴)
MW-3	3/8/22	57.83			3639.02	67.83	2	55 - 75
3696.85	6/8/22	58.09			3638.76		-	00 10
	8/15/22	58.05			3638.80	65.93		
	11/18/22	58.22			3638.63	67.70		
MW-4	3/8/22	61.13			3638.37	63.74	2	55 - 75
3699.50	6/8/22	61.35			3638.15	63.74		
	8/15/22	61.32			3638.18	63.73		
	11/18/22	61.48			3638.02	63.74		
MW-5	3/8/22	55.22			3638.30	64.83	2	48 - 68
3693.52	6/8/22	55.40			3638.12			
	8/15/22	33.06			3660.46	64.79		
	11/18/22	55.54			3637.98	64.82		
MW-6	3/8/22	65.72			3639.09	73.83	2	56 - 76
3704.81	6/8/22	65.93			3638.88			
	8/15/22	65.93			3638.88	79.84		
	11/18/22	66.23			3638.58	73.84		
MW-7	3/8/22	56.76			3637.82		2	49 - 69
3694.58	6/8/22	57.19			3637.39			
	8/15/22	57.20			3637.38	63.72		
	11/18/22	57.34			3637.24	63.75		
MW-8	3/8/22	55.22			3639.36	61.23	2	46 - 66
3694.58	6/8/22	55.72			3638.86			
	8/15/22	55.72			3638.86	64.82		
	11/18/22	55.89			3638.69	61.25		
MW-9R*	3/8/22	48.03				62.70	2	29.5 - 59.5
(not surveyed)	6/8/22	48.18						
	8/15/22	48.21				62.23		
	11/18/22	48.40				62.18		
RW-1	3/8/22	62.78	58.56	4.22	3640.93		4	55 - 75
3699.92	6/8/22	63.25	58.26	4.99	3641.15			
	8/15/22	62.57	58.85	3.72	3640.69			
	11/18/22	62.40	59.01	3.39	3640.56			
RW-2	3/8/22	51.55	51.25	0.30	3640.84		4	47 - 67
3692.12	6/8/22	51.98	51.40	0.58	3640.66			
	8/15/22	51.52	51.50	0.02	3640.62			
	11/18/22	51.69	51.63	0.06	3640.48			
RW-3	3/8/22	51.00	50.85	0.15	3639.99		4	47 - 67
3690.86	6/8/22	51.19	51.14	0.05	3639.71			
	8/15/22	51.68	51.07	0.61	3639.73			
	11/18/22	51.21	51.20	0.01	3639.66			
RW-4	3/8/22	63.95	59.46	4.49	3640.02		4	35 - 75
3699.94	6/8/22	64.37	59.62	4.75	3639.83			
	8/15/22	64.27	59.65	4.62	3639.81			
	11/18/22	63.90	59.85	4.05	3639.67			
14041 4							-	
WW-1 3704.17	3/8/22 6/8/22	NA NA					6	unknown
3704.17	6/8/22 8/15/22			Not acu	and since 2003			
	8/15/22	NA		ivot gau	ged since 2003		1	
	11/18/22	NA						

Table 1

2022 Summary of Groundwater Gauging Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

ARCADIS

Well ID toc elevation	Date	Depth to Groundwater (ft toc²)	Depth to LNAPL (ft toc²)		Groundwater Elevation (ft msl³)	Total Well Depth (ft toc²)	Well Diameter (inches)	Well Screen Interval (ft bgs⁴)
WW-2	3/8/22	NA					6	unknown
3703.84	6/8/22	NA						
	8/15/22	NA		Not gau				
	11/18/22	NA						

Notes:

toc - top of casing.

msl - mean sea level.

bgs - below ground surface.

NA - Not Accessible

Corrected groundwater elevations from July 1998 to December 2006 were calculated using LNAPL specific gravity of 0.88. Corrected groundwater elevations from January 2007 to current were calculated using LNAPL specific gravity of 0.897. MW-1, MW-2 and MW-9 were plugged and abandoned and replaced with RW-1, RW-2 and RW-3 in November 1999. Monitor wells (MWs) are 2-inch in diameter (exept for MW-9R); Recovery wells (RWs) are 4-inch in diameter. *MW-9R was installed May 19, 2015. An elevation survey of this monitoring well had not been completed prior to submission of this report.

Table 2

2022 Summary of Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride					
	New Mexico Water Quality Control Commission Groundwater Standard										
	0.005 ¹ 1.0 ¹ 0.7 ¹ 0.62 ¹ 250 ²										
MW-3	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	74.6					
MW-4	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	84.8					
MW-5	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	73.5					
	11/18/22	<0.000190	<0.000412	0.000287 B J	<0.000510	80.4					
MW-6	3/8/22	<0.000190	<0.000412	<0.000160	<0.000510	82.3					
	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	68.4					
	8/15/22	<0.000190	<0.000412	<0.000160	<0.000510	75.6					
	11/18/22	<0.000190	<0.000412	0.000286 B J	<0.000510	73.8					
MW-7	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	62.5					
MW-8	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	51.6					
MW-9R	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	104					
	11/18/22	<0.000190	<0.000412	0.000288 B J	<0.000510	97.0					
RW-1	6/8/22			LNAPL Present							
	11/18/22			LNAPL Present							
RW-2	6/8/22			LNAPL Present							
	11/18/22	LNAPL Present									
RW-3	6/8/22	LNAPL Present									
	11/18/22			LNAPL Present							
RW-4	6/8/22			LNAPL Present							
	11/18/22	LNAPL Present									
WW-1	6/8/22			NA							
WW-2	6/8/22			NA							

Notes:

Results shown in mg/L.

B = The sample analyte is found in the associated blank.

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

¹Human Health Standards for Groundwater.

²Other Standards for Domestic Water Supply.

NA = Not Accessible

Figures

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- Recovery Well
- Water Well

Approximate LNAPL Countour

Site Details

				Feel
	0	75	150	300 Feet
 4. BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes 5. <0.00018 = not detected at or abover Method detection limit 6. J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. 7. All results are in mg/L. 8. B = The Sample analyte is found in the associated blank. 			Z	
1. Datum: D_WGS_1984 2. Site Location: 32.643018, -103.301158 3. [] Duplicate Results				
Note:				

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	We the	1	a ser a				
		ell ID: MW-9	54				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Analyte		sult				
the state	Date	6/8/2022	11/18/2022				
	Benzene	<0.000190	<0.000190				
and the state	Toluene	<0.000412	<0.000412				
and the second	Ethylbenzene	<0.000160	0.000288 B J <0.000510				
the second	Total Xylenes Chloride	104	0.73				
The start	Chionde	104	97.0				
Contraction of the							
	V	Vell ID: MW-5					
	Analyte	Re	sult				
	Date	6/8/2022	11/18/2022				
At the second	Benzene	<0.000190	<0.000190				
	Toluene	<0.000412	<0.000412				
	Ethylbenzene	<0.000160	0.000287 B J				
and the second	Total Xylenes	<0.000510	<0.000510				
	Chloride	73.5	80.4				
	Well ID:						
			S DIA ROLL				
and you have	Analyte	Result					
Stall States	Date	6/8/2022					
	Benzene Toluene	<0.000190					
· 2+ 1-2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	Ethylbenzene	<0.000412	and the second s				
· · · · · · ·	Total Xylenes	<0.000160	Can the state				
A start	Chloride	<0.000510 62.5	A State of the second				
ource: Esri, Maxar, Ea	1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -	an start of the	GIS User Community				
Source: Esri, Maxar, Earthstar Geographics, IGN, and the GIS User Community Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico							
	2022 BTE AMPLING						
9	ARC		S 4				



Site Background



REGULATORY BACKGROUND

The oil field tank battery was historically operated by Texaco Exploration and Production, Inc. (Texaco). An earthen emergency reserve pit was located approximately 175 feet north of the tank battery. The tank battery and reserve pit are visible in aerial photographs dating from 1949 to 1986. The tank battery and ancillary equipment were removed from the Site sometime after 1986.

The former reserve pit was encountered by the Amerada-Hess Corporation during construction of an adjacent production facility. Approximately 7,400 cubic yards of soil and caliche rock were excavated from the former pit and stockpiled at an adjacent location. In 1998, Highlander Environmental Corporation performed a subsurface assessment which included collection of soil samples from the sidewalls and bottom of the excavation, and additionally from the stockpiled soil. Chemical analyses of the soil samples confirmed that concentrations of all constituents of concern were below the historical New Mexico Oil Conservation Division (NMOCD) recommended remediation action levels for the Site. The soil sampling activities and laboratory analyses are documented in the Subsurface Investigation Report, New Mexico "F" State Tank Battery (Highlander Environmental Corporation, September 1998). According to the Annual Groundwater Monitoring Report, New Mexico "F" State Tank Battery (Larson and Associates, Inc., 2005), the pit was closed between September 1998 and November 2003 per closure requirements stipulated by the NMOCD in correspondence dated January 20, 1999. The bottom of the excavated pit was lined with 2 feet of compacted clay, the stockpiled soil was returned to the excavation, and the backfilled excavation was contoured to natural grade.

Nine groundwater monitoring wells (MW-1 through MW-9) were installed at the Site between 1998 and 1999, and Light Non-aqueous Phase Liquid (LNAPL) was found in two wells (MW-1 and MW-2). Three monitoring wells (MW-1, MW-2, and MW-9) were plugged and abandoned in 1999 and replaced with LNAPL recovery wells RW-1, RW-2, and RW-3. On February 17, 2003, the New Mexico Office of the State Engineer (NMOSE) approved permit applications (L-11029, L-11030, and L-11031) to divert underground water for the purpose of LNAPL remediation.

Semi-annual groundwater monitoring, bi-weekly operation and maintenance (O&M) activities, and annual reporting were previously performed by GHD from 2005 through mid-2019. The initial groundwater recovery/gradient control remediation system operated from February 2005 until November 2006 when the system was shut down. A LNAPL skimmer pump was subsequently installed in RW-1, and absorbent socks were placed in RW-2 and RW-3. An additional recovery well (RW-4) was installed in May 2011 and equipped with a LNAPL skimmer pump in October 2012. The LNAPL skimmer system in RW-1 and RW-4 operated on a continuous, automated basis since installation through February 2017.

The recovered LNAPL/water mixture was contained within a 225-gallon holding tank adjacent to RW-1 situated within secondary containment. The pneumatic system was inspected on a bi-weekly basis, the nitrogen supply was replenished as needed, and the frequency/duration of pumping cycles were adjusted based on LNAPL accumulation rates observed in RW-1 and RW-4. The volume of recovered LNAPL/water mixture was recorded during each O&M event, and the fluids were removed from the Site as needed by Nabors Completion and Production Services Company or C&J Energy Services, Inc.

Sentry well MW-6 has been sampled on a quarterly schedule beginning in 2007 to ensure the plume is not migrating to the southwest, toward off-site water wells WW-1 and WW-2. Well MW-9R was installed to the east of the former reserve pit in May 2015 (at a different location than the original MW-9 which was replaced by RW-3 in 1999).

For the purpose of additional LNAPL removal, a total of 14 Mobile Dual Phase Extraction (MDPE) events were conducted on RW-1 and RW-4 in 2011, 2012, and 2013. All but three events were conducted on RW-1 due to the higher LNAPL recovery rate in that well. The durations of each event ranged from 6.5 to 8 hours. A total of 1,495 gallons of LNAPL was recovered during the collective events. The recovery rates from RW-1 during the 2012 events were constant with no declining trends, suggesting that subsequent MDPE events would recover additional LNAPL.

In October 2015, a 24-hour MDPE pilot test event was conducted on RW-1 to evaluate the potential effectiveness of a permanent Dual Phase Extraction (DPE) system. A total of 6,120 gallons of groundwater and 44 gallons of LNAPL were recovered from RW-1 over a 24-hour period. The average depth of induced groundwater depression within the area of hydraulic control was estimated at 1.50 feet below the static level. The LNAPL thickness decreased from 2.25 to 0.27 feet at the conclusion of the event. The LNAPL recovery rate began at 3 percent, and steadily declined over nine hours when LNAPL recovery stopped. LNAPL recovery resumed at event hour 17 at a rate of 0.5 percent, stopped again at event hour 21, then resumed at a 0.25 percent rate during the last two event hours. Due to the low recovery rates and low LNAPL recharge, it was concluded that a permanent DPE system was not feasible for LNAPL recovery at the Site.

Due to the sustained reduction in LNAPL thicknesses after 2015, accompanied by low accumulation rates and negligible LNAPL recovery rates, the LNAPL skimmer pumps in RW-1 and RW-4 were removed in March 2017 and replaced with absorbent socks. All recovery wells at the Site (i.e., RW-1 through RW-4) now contain absorbent socks which are replaced as necessary. LNAPL is hand bailed from RW-1 and RW-4 on a bi-weekly basis. LNAPL has not been present in RW-2 or RW-3 since 2013.

The dissolved phase plume is primarily limited to benzene in wells containing LNAPL (RW-1 and RW-4), and the concentrations remain relatively stable. Concentrations detected in other wells (e.g., RW-2 and RW-3) are below regulatory limits.

Quarterly gauging only (no hand-bailing) was initiated in July 2020 and conducted through August 2021.

Monthly LNAPL gauging and hand-bailing was re-initiated in September 2021 and conducted through

May 2022. In May 2022, LNAPL skimmer pumps were re-installed in recovery wells (RW-1 and RW-4)

and bi-weekly operation and maintenance (O&M) activities were re-initiated.

REGULATORY FRAMEWORK

The NMOCD provides guidance for remediation of contaminants of oil field wastes or products in Guidelines for Remediation of Leaks, Spills, and Releases (August 13, 1993). The guidance requires remediation of groundwater to the human health standards of the New Mexico Water Quality Control

Commission (NMWQCC) set forth in New Mexico Administrative Code (NMAC) 20.6.2.3103. NMAC 20.6.2 was amended and revised standards were effective December 21, 2018. Standards for benzene, toluene, ethylbenzene, xylenes (BTEX) and chloride are listed below:

Analyte	NMWQCC Standard for Groundwater (mg/L)
Benzene	0.005
Toluene	1.0
Ethylbenzene	0.7
Total Xylenes	0.62
Chloride	250

Note: mg/L = milligrams per liter

GEOLOGY/HYDROGEOLOGY ASSESSMENT

Site Setting

The Site is located on Lea County Road 41 (Maddox Road), approximately three miles northwest of Monument, in the northeast quarter (NE/4) of the southeast quarter (SE/4), Section 24, Township 19 South, Range 36 East, Lea County, New Mexico. The Site's coordinated are latitude 32.643018 and longitude -103.301158.

Land in the vicinity of the Site is utilized primarily for livestock ranching and oil and gas production, and production and has areas of undeveloped rangeland vegetated with indigenous grass. No active Chevron U.S.A. Inc. (Chevron) operations are present in the area. A Site Location Map is presented as **Figure 1**. A Site Detail Map and the surrounding vicinity are presented on **Figure 2**.

Regional Geologic Conditions

The region is characterized by a surface cover of up to 200 feet of unconsolidated to semi-lithified sediments of the Ogallala Formation consisting of sand, clay, and fluvial gravel. The upper portion of the Ogallala Formation has been heavily cemented by caliche. The Tertiary-aged sediments are underlain by the Triassic-aged Dockum Group shale ("red beds").

Hydrogeologic Conditions

Regional groundwater flow in the Ogallala Aquifer is controlled by the slope of the land surface to the south with localized eastward flow into the valley of Monument Draw. The aquifer typically behaves as an unconfined aquifer. Monument Draw is an intermittent stream that contains water only after heavy rains (Texas Water Development Board [TWDB], 2008)1. The Dockum Group Shale is considered the underlying aquitard for the Ogallala Aquifer.

Site Hydrogeology

Groundwater beneath the Site is found within the upper Ogallala deposits. The depth to groundwater at the Site ranges from approximately 47 to 75 ft bgs.

At the Site, the local groundwater flow direction trends to the southeast with an average horizontal hydraulic gradient of approximately 0.013 feet per foot (ft/ft). The southeast groundwater flow direction observed at the Site is consistent with the regional groundwater flow direction to the southeast in the Ogallala Aquifer.



Groundwater Monitoring and LNAPL Operation and Maintenance (O&M) Reduction Workplan



Jason Michelson Project Manager Chevron Environmental Management Company 1500 Louisiana Street, #38116 Houston, Texas 77002 Work: 832-854-5601 Cell: 281-660-8564 jmichelson@chevron.com

July 27, 2020

EMNRD/OCD 5200 Oakland, NE, Suite 100 Albuquerque, NM 87113

Re: Former F-State Tank Battery Case No. 1RP-258 Proposed Groundwater Monitoring and LNAPL O&M Reduction Workplan Lea County, New Mexico

Dear whom it concerns,

Please find enclosed for your files, copies of the following Workplan:

 Former F-State Tank Battery Proposed Groundwater Monitoring and LNAPL O&M Reduction Workplan

The submittal was prepared by Arcadis on behalf of Chevron Environmental Management Company (CEMC).

Please do not hesitate to call Scott Foord with Arcadis U.S., Inc., the current consultant, at 713-953-4853 or myself at 832-854-5601, should you have any questions.

Sincerely,

ason Michelson

Jason Michelson

Encl. Former F-State Tank Battery 1RP-258 Proposed Groundwater Monitoring and LNAPL O&M Reduction Workplan



Mr. Bradford Billings Project Manager EMNRD/OCD 5200 Oakland, NE, Suite 100 Albuquerque, NM 87113

Subject:

Proposed Groundwater Monitoring and LNAPL O&M Reduction Workplan Chevron Environmental Management Company Former F-State Tank Battery Lea County, New Mexico Case No. 1RP-258

Dear Mr. Billings:

At the request of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) is providing this workplan to request the reduction of groundwater monitoring frequency and a reduction of light non-aqueous phase liquid (LNAPL) recovery event frequency for the Former F-State Tank Battery site (Site).

The Former F-State Tank Battery is located on Lea County Road 41 (Maddox Road), approximately three miles northwest of Monument, New Mexico, in the northeast quarter (NE/4) of the southeast quarter (SE/4), Section 24, Township 19 South, Range 36 East, Lea County, New Mexico. The Site's coordinates are latitude 32.643018 and longitude -103.301158.

Groundwater monitoring began at the Site in July 1998, and the Site is currently monitored semi-annually from a network of 7 monitoring wells, 4 recovery wells, and 2 off-site water wells (two full site groundwater sampling events are currently being conducted). Sentry well MW-6 is additionally sampled quarterly to ensure the dissolved-phase plume is not migrating southwest towards the off-site water wells (WW-1 and WW-2). At the request of the NMOCD, LNAPL samples are collected annually from recovery wells containing measurable LNAPL. Two recovery wells (RW-1 and RW-4) currently contain LNAPL and bi-weekly LNAPL gauging and hand-bailing activities are currently conducted. All monitoring wells without LNAPL are currently sampled during both semi-annual (full site) sampling events. The constituents of concern (COCs) in groundwater currently being

Arcadis U.S., Inc. 10205 Westheimer Road Suite 800 Houston Texas 77042 Tel 713 953 4800 Fax 713 977 4620 www.arcadis.com

ENVIRONMENT

Date: July 16, 2020

Contact: Scott Foord

Phone: 713.953.4853

Email: William.foord@arcadis.com

ARCADIS U.S., Inc. TX Engineering License # F-533 Geoscientist License # 50158 Mr. Bradford Billings EMNRD/OCD July 16, 2020

analyzed for include benzene, ethylbenzene, toluene, xylenes (BTEX) and chloride. Neither BTEX or chloride have been detected above New Mexico Water Quality Control Commission (NMWQCC) screening standards or typically above the laboratory method detection limits in site monitoring or water wells for the life of the project. The BTEX plume has remained stable and within the proximity of the four recovery wells only. The Site groundwater flow is generally to the southeast.

For additional site-specific background information please refer to the GHD, 2018 Annual Groundwater Monitoring Report, dated February 2019. The 2019 Annual Groundwater Monitoring Report will be submitted by the end of the third quarter 2020.

PROPOSED REDUCED SAMPLING PLAN

The following Workplan outlines the specifics of the proposed reduced sampling plan and the methodology for the selection of those monitoring wells. One semi-annual monitoring event (full site) will include sampling all site wells as currently conducted. The second semi-annual sampling event will be reduced to only sampling monitoring wells based on the following proposed sampling methodology. Sentry well MW-6 will continue to be sampled quarterly to ensure the dissolved-phase plume is not migrating southwest towards the off-site water wells. The groundwater sampling frequency of all other wells will be assessed yearly based on the results of the sampling events for the lifespan of the project and will increase to quarterly for a minimum of eight consecutive quarters prior to closure request for the Site.

Additionally, CEMC requests the reduction of current LNAPL gauging and hand-bailing activities schedule from bi-weekly to quarterly gauging only (no hand-bailing) for one year (through August 2021), to allow the current LNAPL conditions at the Site to equilibrate so that a more practical/efficient LNAPL recovery method can be evaluated and initiated.

CEMC also request to discontinue the annual collection of LNAPL samples from recovery wells for analytical analyses as data trends for these wells have been established.

The following sections provide specifics for the proposed reduced groundwater monitoring plan:

Sampling Reduction for Non-impacted Monitoring Wells

Site monitoring wells with COC concentrations reported below NMWQCC exceedance standards for two consecutive years or longer will not be gauged or sampled during the second semi-annual monitoring event except for sentry well MW-6.

The Site wells currently selected for reduction from the second semi-annual sampling event include: MW-3, MW-4, MW-5, MW-7, MW-8, MW-9R, WW-1, and WW-2.

The previously referenced wells have been evaluated based on historical concentration trends, historical concentration trends of nearby monitoring wells, potential receptors, and the groundwater gradient.

The proposed list of Site monitoring wells that will be sampled during each semi-annual event are presented on attached **Table 1** (Sampling and Analysis Plan).

Mr. Bradford Billings EMNRD/OCD July 16, 2020

The Site monitoring wells that will be sampled during the reduced event are presented on **Figure 1** (Potentiometric Surface Map), and with current groundwater constituent concentrations on **Figure 2** (Proposed Groundwater Monitoring Reduction Plan).

The Summary of Historical Groundwater Analytical Results is presented in Table 2.

Request to Reduce LNAPL Recovery and Gauging

As stated previously, CEMC additionally requests the reduction of the current bi-weekly LNAPL gauging and hand-bailing activities schedule to quarterly gauging only (no hand-bailing) for one year through August 2021 to allow the current LNAPL conditions at the Site to equilibrate so that a more practical/efficient LNAPL recovery method can be evaluated and initiated. CEMC will assess findings from the LNAPL gauging data collected through August 2021 to evaluate more practical and effective LNAPL recovery system alternatives.

CONTACT

Arcadis is prepared to initiate the scope of work immediately. If you have any questions or comments, please contact either Scott Foord by phone at 713 953 4853 or by e-mail at <u>william.foord@arcadis.com</u> or Greg Cutshall by phone at 859 327 4626 or by email at <u>greg.cutshall@arcadis.com</u>.

Sincerely,

Arcadis U.S., Inc.

- 2001 Anti

Scott Foord Project Manager

Copies: Greg Cutshall, Program Manager

Enclosures: Tables

- 1 Sampling and Analysis Plan
- 2 Summary of Historical Groundwater Analytical Results

Figures

- 1 Potentiometric Surface Map
- 2 Proposed Groundwater Monitoring Reduction Plan



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Table 1 Sampling and Analysis Plan Chevron Environmental Management Company Former F-State Tank Battery Lea County, New Mexico Case No. 1RP-258

	1st Q	uarter	2nd C	Quarter	3rd Quarter		4th Quarter		
	Sentry Wel	MW-6 only	First Semi-A	nnual Event	Sentry Well MW-6 only		Second Semi	Second Semi-Annual Event	
Well ID	втех	Chloride	втех	Chloride	втех	Chloride	втех	Chloride	
MW-3			X	X					
MW-4			Х	Х					
MW-5			Х	Х					
MW-6	Х	Х	Х	Х	Х	Х	Х	Х	
MW-7			Х	Х					
MW-8			Х	Х					
MW-9R			Х	Х					
RW-1									
RW-2			Х	Х			Х	Х	
RW-3			Х	Х			Х	Х	
RW-4									
WW-1			Х	Х					
WW-2			Х	Х					

Notes: USEPA = United States Environmental Protection Agency

 X = Sample be collected at monitoring well during respective event.

 -- = Sample will not be collected at monitoring well

Bold = LNAPL currently present in well

Table 2

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride		
New Mexico Water Quality Control Commission Groundwater Standard								
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²		
MW-3	7/28/98	0.003	<0.001	<0.001	0.002	36		
MW-3	2/16/01	<0.005	<0.005	<0.005	<0.005	31		
MW-3	6/12/02	<0.005	<0.005	<0.005	<0.005	27.1		
MW-3	11/26/03	<0.001	<0.001	<0.001	<0.001	31.9		
MW-3	6/6/03	<0.001	<0.001	<0.001	<0.001	27.5		
MW-3	12/4/03	<0.001	<0.001	<0.001	0.0017	26.1		
MW-3	7/2/04	<0.005	<0.005	<0.005	<0.005	28		
MW-3	12/21/04	<0.005	<0.005	<0.005	<0.005	32.3		
MW-3	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	34.3		
MW-3	12/13/05	<0.005	<0.005	<0.005	<0.010	29.3		
MW-3	6/27/06	<0.005	<0.005	<0.005	<0.010	31.1		
MW-3	12/19/06	<0.005	<0.005	<0.005	<0.001	28		
MW-3	6/27/07	<0.005	<0.005	<0.005	<0.010	31		
MW-3	12/14/07	<0.005	<0.005	<0.005	<0.010	31		
MW-3	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	30		
MW-3	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	32		
DUP	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	32		
MW-3	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	35		
MW-3	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	40		
MW-3	7/1/10	<0.00020	<0.00020	<0.00020	<0.00070	50.4		
MW-3	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	64		
MW-3	6/2/11	0.00053J	0.00061J	<0.0010	<0.0030	90.7		
MW-3	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	85.0		
DUP	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	85.7		
MW-3	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	114		
MW-3	11/26/12	<0.0001	<0.0002	0.00116	0.00345	94.6		
MW-3	6/14/13	<0.001	<0.002	<0.001	<0.001	79		
MW-3	11/27/13	<0.001	<0.002	<0.001	<0.001	101		
MW-3	8/1/14	<0.001	<0.002	<0.001	<0.003	75.6		
MW-3	12/12/14	<0.001	<0.002	<0.001	<0.003	137		
MW-3	6/9/15	<0.001	<0.002	<0.001	<0.003	89.1		
MW-3	12/9/15	<0.001	<0.002	<0.001	<0.003	67.8		
MW-3	6/21/16	<0.002	<0.002	<0.002	<0.002	57.9		
MW-3	12/8/16	<0.002	<0.002	<0.002	<0.002	60.6		
MW-3	6/14/17	<0.002	<0.002	<0.002	<0.002	55.0		
MW-3	11/29/17	<0.002	<0.002	<0.002	<0.002	49.8		
MW-3	6/14/18	<0.002	<0.002	<0.002	<0.002	50.6		
MW-3	12/13/18	<0.0020	<0.0020	<0.002	<0.002	50.0		
MW-3	5/6/19	<0.0020	<0.0020	<0.0020	<0.0020	53.0		
MW-3	11/19/19	<0.0010	<0.0010	<0.0010	<0.0020	59.0		

Table 2

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride			
	New Mexico Water Quality Control Commission Groundwater Standard								
		0.005 ¹	1.0 ¹	0.71	0.62 ¹	250 ²			
MW-4	7/28/98	<0.001	<0.001	<0.001	<0.001	94			
MW-4	2/16/01	<0.005	<0.005	<0.005	0.008	170			
MW-4	6/12/02	<0.005	<0.005	<0.005	<0.005	85.6			
MW-4	11/26/03	0.002	<0.001	<0.001	<0.005	160			
MW-4	6/6/03	<0.001	<0.001	<0.001	0.0026	111			
MW-4	12/4/03	0.0015	<0.001	<0.001	<0.001	104			
MW-4	7/2/04	<0.001	<0.001	<0.001	<0.001	72.4			
MW-4	12/21/04	< 0.005	<0.005	<0.005	<0.005	59.7			
MW-4	6/6/05	<0.001	<0.001	<0.001	<0.001	58.4			
MW-4	12/13/05	<0.005	<0.005	<0.005	<0.010	55.3			
MW-4	6/27/06	0.000597	<0.0005	<0.0005	<0.001	48.8			
MW-4	12/19/06	<0.005	<0.005	<0.005	<0.001	34			
MW-4	6/27/07	<0.005	<0.005	<0.005	<0.010	39			
MW-4	12/13/07	0.000968	<0.000500	<0.000500	0.00254	63.1			
MW-4	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	61			
MW-4	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	52			
MW-4	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	59			
MW-4	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	58			
MW-4	7/1/10	0.00032J	<0.00020	<0.00020	<0.00070	54.5			
MW-4	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	57.5			
DUP	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	58.4			
MW-4	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	49.8			
MW-4	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	142			
MW-4	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	73.7			
MW-4	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	69.3			
MW-4	6/14/13	<0.001	<0.002	<0.001	<0.001	59.5			
MW-4	11/27/13	<0.001	<0.002	<0.001	<0.001	65.1			
MW-4	8/1/14	<0.001	<0.002	<0.001	<0.003	71.8			
MW-4	12/12/14	<0.001	<0.002	<0.001	< 0.003	104			
MW-4	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	98.5			
MW-4	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	70.6			
MW-4	6/21/16	<0.002	<0.002	<0.002	<0.002	60.9			
MW-4	12/8/16	<0.002	<0.002	<0.002	<0.002	86.2			
MW-4	6/14/17	<0.002	<0.002	<0.002	<0.002	86.4			
MW-4	11/29/17	<0.002	<0.002	<0.002	<0.002	81.7			
MW-4	6/14/18	<0.002	<0.002	<0.002	<0.002	96.4			
MW-4	12/13/18	<0.002	<0.002	<0.002	<0.002	77.6			
MW-4	5/6/19	<0.002	<0.002	<0.002	<0.002	54.6			
MW-4	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	99			

Table 2

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride			
	New Mexico Water Quality Control Commission Groundwater Standard								
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²			
MW-5	7/28/98	<0.001	<0.001	<0.001	<0.001	360			
MW-5	2/16/01	<0.005	<0.005	<0.005	<0.005	120			
MW-5	6/12/02	<0.005	<0.005	<0.005	<0.005	90.2			
MW-5	11/26/03	0.002	<0.001	0.003	<0.002	59.1			
MW-5	6/6/03	<0.001	<0.001	<0.001	<0.001	48.6			
MW-5	12/4/03	<0.001	<0.001	<0.001	<0.001	36.5			
MW-5	7/2/04	<0.005	<0.005	<0.005	<0.005	32.9			
MW-5	12/21/04	<0.005	<0.005	<0.005	<0.005	39.8			
MW-5	6/6/05	<0.001	<0.001	<0.001	<0.001	41.1			
MW-5	12/13/05	<0.005	<0.005	<0.005	<0.010	39.7			
MW-5	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	43.2			
MW-5	12/19/06	<0.005	<0.005	<0.005	<0.001	51			
MW-5	6/27/07	<0.005	<0.005	<0.005	<0.001	67			
MW-5	12/14/07	<0.005	<0.005	<0.005	<0.001	101			
MW-5	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	78.7			
MW-5	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	100			
MW-5	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	140			
MW-5	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	110			
MW-5	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	115			
MW-5	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	168			
MW-5	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	134			
MW-5	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	172			
MW-5	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	137			
MW-5	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	110			
MW-5	6/14/13	<0.001	<0.002	<0.001	<0.001	66.6			
MW-5	11/27/13	<0.001	<0.002	<0.001	<0.001	72.3			
MW-5	8/1/14	<0.001	<0.002	<0.001	<0.003	69.5			
MW-5	12/12/14	<0.001	<0.002	<0.001	<0.003	66.9			
MW-5	6/9/15	<0.001	<0.002	<0.001	<0.003	69.1			
MW-5	12/9/15	<0.001	<0.002	<0.001	<0.003	44			
MW-5	6/21/16	<0.002	<0.002	<0.002	<0.002	39.9			
MW-5	12/8/16	<0.002	<0.002	<0.002	<0.002	39.1			
MW-5	6/14/17	<0.002	<0.002	<0.002	<0.002	42.1			
MW-5	11/29/17	<0.002	<0.002	<0.002	<0.002	35.6			
MW-5	6/14/18	<0.002	<0.002	<0.002	<0.002	37.6			
MW-5	12/13/18	<0.002	<0.002	<0.002	<0.002	37.4			
MW-5	5/6/19	<0.002	<0.002	<0.002	<0.002	114.0			
MW-5	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	49.0			

Table 2

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride			
	New Mexico Water Quality Control Commission Groundwater Standard								
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²			
MW-6	7/28/98	<0.001	<0.001	<0.001	<0.001	43.0			
MW-6	2/16/01	<0.005	<0.005	0.006	0.006	52			
MW-6	6/12/02	<0.001	<0.001	<0.001	<0.001	54.1			
MW-6	11/26/03	<0.001	<0.001	<0.001	<0.002	65			
MW-6	6/6/03	<0.001	<0.001	<0.001	<0.001	43.7			
MW-6	12/4/03	<0.001	<0.001	<0.001	<0.001	45.3			
MW-6	7/2/04	<0.001	<0.001	<0.001	<0.001	57.5			
MW-6	12/21/04	<0.005	<0.005	<0.005	<0.005	61.3			
MW-6	6/6/05	<0.001	<0.001	<0.001	<0.001	66.7			
MW-6	12/13/05	<0.005	<0.005	<0.005	<0.010	80.9			
MW-6	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	86.4			
MW-6	12/19/06	<0.005	<0.005	<0.005	<0.001	88			
MW-6	3/16/07	<0.0005	<0.0005	<0.0005	<0.001	92.2			
MW-6	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	110			
MW-6	9/27/07	<0.0005	<0.0005	<0.0005	<0.001	99.5			
MW-6	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	99.2			
MW-6	3/6/08	<0.00037	<0.00039	<0.00042	<0.00035	88.8			
MW-6	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	117			
MW-6	9/4/08	<0.00037	<0.00039	<0.00042	<0.00035	130			
MW-6	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	130			
MW-6	3/5/09	<0.00037	<0.00039	<0.00042	<0.00035	140			
MW-6	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	160			
MW-6	9/9/09	<0.00037	<0.00039	<0.00042	<0.00035	160			
MW-6	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	140			
MW-6	3/23/10	<0.0002	<0.0002	<0.0002	<0.0007	169			
MW-6	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	161			
DUP	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	169			
MW-6	9/22/10	0.00033J	<0.0001	<0.0001	<0.0003	157			
MW-6	11/9/10	<0.0001	<0.0001	0.0010	<0.0003	182			
MW-6	3/3/11	<0.0001	<0.0001	<0.0001	<0.0003	225			
MW-6	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	215			
DUP	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	221			
MW-6	9/27/11	<0.0001	<0.0001	<0.0001	<0.0003	222			
MW-6	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	198			
MW-6	3/7/12	<0.0001	<0.0001	<0.0001	<0.0001	189			
MW-6	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	259			
DUP	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	260			
MW-6	9/20/12	<0.0001	<0.0001	<0.0001	<0.0001	221			
MW-6	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	176			
MW-6	3/14/13	<0.001	<0.002	<0.001	<0.001	195			
Table 2

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality (Control Commiss	sion Groundwater	Standard	
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-6	6/14/13	<0.001	<0.002	<0.001	<0.001	219
MW-6	9/13/13	<0.001	<0.002	<0.001	<0.001	209
MW-6	11/27/13	<0.001	<0.002	<0.001	<0.001	220
MW-6	3/21/14	<0.001	<0.002	<0.001	< 0.003	231
MW-6	8/1/14	<0.001	<0.002	<0.001	< 0.003	220
MW-6	9/22/14	<0.001	<0.002	<0.001	< 0.003	186
MW-6	12/12/14	<0.001	<0.002	<0.001	< 0.003	217
MW-6	3/31/15	<0.001	<0.002	<0.001	< 0.003	201
MW-6	6/9/15	<0.001	<0.002	<0.001	< 0.003	209
MW-6	9/16/15	<0.001	<0.002	<0.001	< 0.003	212
MW-6	12/9/15	<0.001	<0.002	<0.001	< 0.003	175
MW-6	3/7/16	<0.001	<0.002	<0.001	<0.001	218
MW-6	6/21/16	<0.002	<0.002	<0.002	<0.002	201
MW-6	8/31/16	<0.002	<0.002	<0.002	<0.002	222
MW-6	12/8/16	<0.002	<0.002	<0.002	<0.002	190
MW-6	3/9/17	<0.002	<0.002	<0.002	<0.002	182
MW-6	6/14/17	<0.002	<0.002	<0.002	<0.002	168
MW-6	9/5/17	<0.002	<0.002	<0.002	<0.002	151
MW-6	11/29/17	<0.002	<0.002	<0.002	<0.002	124
MW-6	3/22/18	<0.002	<0.002	<0.002	<0.002	127
MW-6	6/14/18	<0.002	<0.002	<0.002	<0.002	110
MW-6	9/6/18	<0.002	<0.002	<0.002	<0.002	106
MW-6	12/14/18	<0.002	<0.002	<0.002	<0.002	78.7
MW-6	2/7/19	<0.002	<0.002	<0.002	<0.002	100.0
MW-6	5/6/19	<0.002	<0.002	<0.002	<0.002	108.0
MW-6	8/2/19	<0.002	<0.002	<0.002	<0.002	112.0
DUP	8/2/19	<0.002	<0.002	<0.002	<0.002	115.0
MW-6	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	80.0
MW-7	7/28/98	<0.001	<0.001	<0.001	<0.001	82
MW-7	2/16/01	<0.005	<0.005	<0.005	<0.005	150
MW-7	6/12/02	<0.005	<0.005	<0.005	<0.005	96.7
MW-7	11/26/03	<0.001	<0.001	<0.001	<0.002	133
MW-7	6/6/03	<0.001	<0.001	<0.001	<0.001	199
MW-7	12/4/03	<0.001	<0.001	<0.001	<0.001	230
MW-7	7/2/04	<0.001	<0.001	<0.001	<0.001	215
MW-7	12/21/04	<0.005	<0.005	<0.005	<0.005	274
MW-7	6/6/05	<0.001	<0.001	<0.001	<0.001	221
MW-7	12/13/05	<0.005	<0.005	<0.005	<0.010	204
MW-7	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	158
MW-7	12/19/06	<0.005	<0.005	<0.005	<0.001	130
MW-7	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	110
MW-7	12/13/07	<0.0005	<0.0005	<0.0005	<0.001	135
MW-7	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	72.4

Table 2

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality	Control Commis	sion Groundwater	Standard	
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-7	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	66
MW-7	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	58
MW-7	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	47
MW-7	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	51.2
MW-7	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	67.1
MW-7	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	69.4
MW-7	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	76.6
MW-7	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	91.5
MW-7	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	67.7
MW-7	6/14/13	<0.001	<0.002	<0.001	<0.001	56.4
MW-7	11/27/13	<0.001	<0.002	<0.001	<0.001	78.1
MW-7	8/1/14	<0.001	<0.002	<0.001	<0.003	68.3
MW-7	12/12/14	<0.001	<0.002	<0.001	<0.003	122
MW-7	6/9/15	<0.001	<0.002	<0.001	<0.003	79.2
MW-7	12/9/15	<0.001	<0.002	<0.001	<0.003	94
MW-7	6/21/16	<0.002	<0.002	<0.002	<0.002	52.3
MW-7	12/8/16	<0.002	<0.002	<0.002	<0.002	69.0
MW-7	6/14/17	<0.002	<0.002	<0.002	<0.002	68.6
MW-7	11/29/17	<0.002	<0.002	<0.002	<0.002	62.6
MW-7	6/14/18	<0.002	<0.002	<0.002	<0.002	58.5
MW-7	12/13/18	<0.002	<0.002	<0.002	<0.002	49.9
MW-7	5/6/19	<0.002	<0.002	<0.002	<0.002	58.7
MW-7	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	50.0
MW-8	7/28/98	<0.001	<0.001	<0.001	<0.001	29
MW-8	2/16/01	<0.005	<0.005	<0.005	<0.005	94
MW-8	6/12/02	<0.005	<0.005	<0.005	<0.005	180
MW-8	11/26/03	<0.001	<0.001	<0.001	<0.002	239
MW-8	6/6/03	<0.001	<0.001	<0.001	<0.001	244
MW-8	12/4/03	<0.001	<0.001	<0.001	<0.001	251
MW-8	7/2/04	<0.005	<0.005	<0.005	<0.005	206
MW-8	12/21/04	<0.005	<0.005	<0.005	<0.005	244
MW-8	6/6/05	<0.0001	<0.0001	<0.0001	<0.0001	227
MW-8	12/13/05	<0.005	<0.005	<0.005	<0.010	144
MW-8	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	92.6
MW-8	12/19/06	<0.005	<0.005	<0.005	<0.001	83.0
MW-8	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	79
MW-8	12/13/07	<0.0005	<0.0005	<0.0005	<0.001	82.9
MW-8	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	54.9
MW-8	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	47
MW-8	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	45

Table 2

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality	Control Commis	sion Groundwater	Standard	
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-8	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	36
MW-8	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	38.4
MW-8	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	47.6
MW-8	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	51.8
MW-8	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	72.7
MW-8	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	95.7
MW-8	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	77.6
MW-8	6/14/13	<0.001	<0.002	<0.001	<0.001	83.3
DUP	6/14/13	<0.001	<0.002	<0.001	<0.001	84.3
MW-8	11/27/13	<0.001	<0.002	<0.001	<0.001	72.2
DUP	11/27/13	<0.001	<0.002	<0.001	<0.001	71.3
MW-8	8/1/14	<0.001	<0.002	<0.001	<0.003	63.2
MW-8	12/12/14	<0.001	<0.002	<0.001	<0.003	82.8
MW-8	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	79.8
DUP	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	84.6
MW-8	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	69.9
DUP	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	68.0
MW-8	6/21/16	<0.002	<0.002	<0.002	<0.002	74.4
DUP	6/21/16	<0.002	<0.002	<0.002	<0.002	68.0
MW-8	12/8/16	<0.002	<0.002	<0.002	<0.002	71.4
DUP	12/8/16	<0.002	<0.002	<0.002	<0.002	72.2
MW-8	6/14/17	<0.002	<0.002	<0.002	<0.002	67.1
DUP	6/14/17	<0.002	<0.002	<0.002	<0.002	63.8
MW-8	11/29/17	<0.002	<0.002	<0.002	<0.002	58.7
MW-8	6/14/18	<0.002	<0.002	<0.002	<0.002	68.0
DUP	6/14/18	<0.002	<0.002	<0.002	<0.002	67.9
MW-8	12/13/18	<0.002	<0.002	<0.002	<0.002	62.6
DUP	12/13/18	<0.002	<0.002	<0.002	<0.002	61.5
MW-8	5/6/19	<0.002	<0.002	<0.002	<0.002	102.0
MW-8	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	65.0
MW-9R	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	145
MW-9R	12/9/15	< 0.0001	<0.0001	< 0.0001	<0.0003	119
MW-9R	6/21/16	<0.002	<0.002	<0.002	<0.002	109
MW-9R	12/8/16	<0.002	< 0.002	<0.002	<0.002	120
MW-9R	6/14/17	<0.002	< 0.002	< 0.002	<0.002	115
MW-9R	11/29/17	<0.002	< 0.002	<0.002 <0.002 <0.002		98
MW-9R	6/15/18	<0.002	< 0.002	<0.002	<0.002	92.2
MW-9R	12/13/18	<0.002	<0.002	<0.002	<0.002	84.0
MW-9R	5/6/19	<0.002	< 0.002	< 0.002	<0.002	94.1
MW-9R	11/19/19	< 0.0010	<0.0010	<0.0010	<0.002	110.0

Table 2

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality	Control Commis	sion Groundwater	Standard	
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
WW-1	7/28/98	<0.001	1 <0.001 <0.001 <0.001		100	
WW-1	6/12/02	<0.001	<0.001	<0.001	<0.001	43.6
WW-1	11/26/02	<0.001	<0.001	<0.001	<0.002	80
WW-1	6/6/03	<0.001	<0.001	<0.001	<0.001	73.4
WW-1	12/4/03	<0.001	<0.001	<0.001	<0.001	65.3
WW-1	7/2/04	<0.001	<0.001	<0.001	<0.001	66.5
WW-1	12/21/04	<0.005	<0.005	<0.005	<0.005	74.3
WW-1	6/6/05	<0.0001	<0.0001	<0.0001	<0.0001	63.4
WW-1	12/13/05	<0.005	<0.005	<0.005	<0.010	41.1
WW-1	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	50
WW-1	12/19/06	<0.005	<0.005	<0.005	<0.001	80.0
WW-1	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	52
WW-1	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	59.8
WW-1	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	64.1
DUP	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	64.4
WW-1	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	73
WW-1	6/17/09	<0.00037	<0.00039	<0.00042	<0.00035	60
WW-1	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	64
WW-1	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	41
WW-1	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	77
WW-1	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	73.6
WW-1	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	50.2
WW-1	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	90
WW-1	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	69.9
WW-1	6/14/13	<0.001	<0.002	<0.001	<0.001	53.7
WW-1	11/27/13			not sampled		
WW-1	8/1/14	<0.001	<0.002	<0.001	<0.003	56.4
WW-1	12/12/14	<0.001	<0.002	<0.001	<0.003	71.6
WW-1	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	64.8
WW-1	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	45
WW-1	6/21/16	<0.002	<0.002	<0.002	<0.002	37.0
WW-1	12/8/16	<0.002	<0.002	<0.002	<0.002	42.1
WW-1	6/14/17	<0.002	<0.002	<0.002	<0.002	34.0
WW-1	11/29/17	<0.002	0.0559	0.225	0.0411	49.4
DUP	11/29/17	<0.002	0.059	0.241	0.0456	49.0
WW-1	12/21/17	<0.002	<0.002	<0.002	<0.002	
WW-1	6/15/18	<0.002	<0.002	<0.002	<0.002	42.6
WW-1	12/18/18	<0.002	<0.002	<0.002	<0.002	45.3
WW-1	5/6/19	<0.002	<0.002	<0.002	<0.002	60.4
DUP	5/6/19	<0.002	<0.002	<0.002	<0.002	55.5

Table 2

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality	Control Commis	sion Groundwater	Standard	
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
WW-2	6/12/02	<0.001	<0.001	<0.001	<0.001	53.7
WW-2	11/26/02	<0.001	<0.001	<0.001	<0.002	70.9
WW-2	6/6/03	<0.001	<0.001	<0.001	<0.001	71.1
WW-2	12/4/03	<0.001	<0.001	<0.001	<0.001	52.4
WW-2	7/2/04	<0.001	<0.001	<0.001	<0.001	51.0
WW-2	12/21/04	<0.005	<0.005	<0.005	<0.005	55.6
WW-2	6/6/05	<0.001	<0.001	<0.001	<0.001	55.3
WW-2	12/13/05	<0.005	<0.005	<0.005	<0.010	75.3
WW-2	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	69.7
WW-2	12/19/06	<0.005	<0.005	<0.005	<0.001	57.0
WW-2	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	46
WW-2	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	83.1
WW-2	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	65.9
WW-2	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	73
WW-2	6/17/09	<0.00037	<0.00039	<0.00042	<0.00035	60
WW-2	11/20/09			not sampled		
WW-2	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	66.3
WW-2	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	77.2
WW-2	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	74.9
WW-2	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	76.5
WW-2	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	63.1
WW-2	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	50.3
WW-2	6/14/13	<0.001	<0.002	<0.001	<0.001	81.1
WW-2	11/27/13			not sampled		
WW-2	8/1/14	<0.001	<0.002	<0.001	<0.003	95.5
WW-2	12/12/14	<0.001	<0.002	<0.001	<0.003	112
WW-2	6/9/15	<0.001	<0.002	<0.001	<0.003	108
WW-2	12/9/15	<0.001	<0.002	<0.001	<0.003	45.8
WW-2	6/21/16	<0.002	<0.002	<0.002	<0.002	28.9
WW-2	12/8/16	<0.002	<0.002	<0.002	<0.002	39.1
WW-2	6/14/17	<0.002	<0.002	<0.002	<0.002	29.8
WW-2	11/29/17	<0.002	<0.002	<0.002	<0.002	39.8
WW-2	6/13/18			not sampled		
WW-2	12/14/18	<0.002	0.00715	<0.0020	0.0828	45.9
WW-2	2/7/19	<0.002	<0.002	<0.002	<0.002	41.5
WW-2	5/6/19	<0.002	<0.002	<0.002	<0.002	97.5
RW-1	6/5/08	0.0119	<0.0039	<0.0042	<0.0035	36.2
RW-1	6/17/09	0.012	0.0055	0.0018	0.012	49
RW-1	7/1/10	0.022	0.00070J	0.0027	0.017	41.1
RW-1	6/26/12	0.0113	<0.00100	0.00514	0.0350	44.1
RW-1	6/27/13	0.00745	0.00963	0.0101	0.0549	33.8
RW-1	8/1/14	0.0172	0.00226	0.00499	0.0237	36.2

Table 2

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride	
	New Mexic	o Water Quality	Control Commiss	sion Groundwater	Standard		
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²	
RW-1	6/9/15	0.0109	<0.00200	0.00373	0.0182	43.7	
RW-1	12/9/15	not sampled					
RW-1	6/21/16			not sampled			
RW-1	12/8/16	0.0137	<0.002	<0.002	0.0089	74.9	
RW-1	6/14/17			not sampled			
RW-1	11/29/17	0.0148	<0.002	0.00372	0.0108	101	
RW-1	6/14/18			not sampled			
RW-1	12/14/18	<0.002	0.00363	<0.002	0.0137	131	
RW-2	6/27/07	0.00287	<0.0025	<0.0025	0.0303	60	
RW-2	6/5/08	<0.0037	< 0.0039	<0.0042	<0.0035	51.1	
RW-2	6/17/09	<0.00037	0.0046	<0.00042	0.016	44	
RW-2	7/1/10	0.0016	<0.0002	< 0.0002	0.0067	30.1	
RW-2	6/26/12	<0.00100	<0.001	<0.001	0.00362	43.9	
RW-2	6/14/13	0.00178	0.00268	0.00171	0.0262	30	
RW-2	8/1/14	0.00103	0.00106	<0.001	0.00788	41	
RW-2	12/12/14	0.00154	< 0.002	<0.001	0.00348	52.7	
RW-2	6/9/15	0.00112	<0.002	<0.001	< 0.003	49.5	
RW-2	12/9/15	<0.00100	<0.002	0.00102	0.00725	48	
RW-2	6/21/16	<0.002	<0.002	<0.002	<0.002	44	
RW-2	12/8/16	<0.002	<0.002	<0.002	<0.002	55.8	
RW-2	6/14/17	0.00408	0.00219	<0.002	<0.002	62.3	
RW-2	11/29/17	<0.002	<0.002	<0.002	<0.002	65.0	
RW-2	6/15/18	0.00306	< 0.002	<0.002	<0.002	72.4	
RW-2	12/14/18	<0.002	<0.002	< 0.002	0.00215	73.4	
RW-3	6/11/02	<0.005	<0.005	<0.005	<0.005	25.9	
RW-3	12/3/04	<0.001	<0.001	<0.001	<0.001	36.6	
RW-3	6/27/07	0.00855	<0.0025	0.0122	0.027	130	
RW-3	6/5/08	<0.0037	< 0.0039	< 0.0042	0.0129	90.6	
RW-3	6/17/09	0.0052	0.0042	0.011	0.025	74	
RW-3	11/20/09	<0.00037	0.001	0.0027	0.0076	60	
DUP	11/20/09	<0.00037	0.0013	0.003	0.008	60	
RW-3	7/1/10	0.0065	<0.0002	0.0066	0.003	68.3	
RW-3	6/26/12	0.00682	<0.001	<0.001	<0.001	55.4	
RW-3	6/14/13	0.0092	0.0291	0.0253	0.138	37.3	
RW-3	8/1/14	0.00709	<0.002	<0.001	0.132	41.5	
RW-3	12/12/14	0.00588	< 0.002	< 0.001	0.00691	47.7	
RW-3	6/9/15	0.00512	<0.002	<0.001	0.00309	40	
RW-3	12/9/15	0.00432	<0.002	<0.001	< 0.003	39	
RW-3	6/21/16	0.00408	<0.002	<0.002	<0.002	36.3	
RW-3	12/8/16	0.00574	<0.002	<0.002	0.00265	45.3	
RW-3	6/14/17	0.00850	<0.002	<0.002	< 0.002	43.4	
RW-3	11/29/17	0.00563	<0.002	<0.002	<0.002	49.1	
RW-3	6/15/18	< 0.002	<0.002	<0.002	<0.002	53.1	
RW-3	12/14/18	0.00262	<0.002	<0.002	0.00322	55.4	
0							

Table 2

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride			
	New Mexico Water Quality Control Commission Groundwater Standard								
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²			
RW-4	6/26/12	0.00221	<0.001	0.00410	0.0188	65.1			
RW-4	6/27/13	0.0245	0.0396	0.0779	0.196	43.1			
RW-4	8/1/14	0.0155	0.00107	0.00766	0.0286	34.2			
RW-4	6/9/15	0.0127	<0.002	0.00752	0.030	39.5			
RW-4	12/9/15			not sampled					
RW-4	6/21/16			not sampled					
RW-4	12/8/16	0.0139	<0.002	0.00758	0.03070	45.7			
RW-4	6/14/17			not sampled					
RW-4	11/29/17	0.0268	0.00761	0.03040	0.1310	48.9			
RW-4	6/14/18			not sampled	•••••••				
RW-4	12/14/18	107	390	47.6	252	<5.0			

Notes:

Results shown in mg/L.

Data through June 6, 2005 provided by Larson & Associates, Inc.

Bold indicates detection above method detection limit.

Shaded cells indicate New Mexico Water Quality Control Commission (NMWQCC) exceedance.

¹Human Health Standards for Groundwater.

²Other Standards for Domestic Water Supply.

³RW-1 and RW-4 were sampled by dropping a disposable PVC bailer below the level of LNAPL.

⁴MW-9R was installed May 19, 2015.

⁵ Sample was analyzed as a solid instead of a water due to oily nature of sample and results are in mg/kg.

FIGURES

Released to Imaging: 8/2/2023 1:38:02 PM



Released to Imaging: 8/2/2023 1:38:02 PM



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Well ID: MW-9R								
Analyte Result								
Date	5/6/2019	11/19/2019						
Benzene	<0.002	<0.002						
Toluene	<0.002	<0.002						
Ethylbenzene	<0.002	<0.002						
Total Xylenes	<0.002	<0.002						
Chloride	94.1	110						

	Service and	A COLUMN STREET						
Well ID: MW-5								
Analyte Result								
Date	5/6/2019	11/19/2019						
Benzene	<0.002	<0.002						
Toluene	<0.002	<0.002						
Ethylbenzene	<0.002	<0.002						
Total Xylenes	<0.002	<0.002						
Chloride	114	49						
NEW SOL	A CONCERCION OF	34.0000 000000						

Well ID: MW-7							
Analyte	Analyte Result						
Date	5/6/2019	11/19/2019					
Benzene	< <mark>0.002</mark>	< <mark>0.002</mark>					
Toluene	<0.002	<0.002					
Ethylbenzene	<0.002	<0.002					
Total Xylenes	<0.002	<0.002					
Chloride	58.7	50					

I ID: MW-4			
Re	Result		
5/6/2019	11/19/2019		
<0.002	<0.002		
<0.002	<0.002		
<0.002	<0.002		
<0.002	<0.002		
54.6	99		

Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

PROPOSED GROUNDWATER MONITORING

REDUCTION PLAN





Field Methodology and Documentation



FIELD METHODS

Field equipment was decontaminated with an Alconox[™] wash and distilled water rinse before beginning field activities and between wells. Groundwater gauging was conducted prior to sampling activities.

Prior to sampling, static fluid water levels were measured with an electronic interface probe to the nearest hundredth of a foot and recorded. In addition, a conductivity probe was used to record the conductivity levels every 2 feet in each well to evaluate the vertical distribution of chloride-affected groundwater. After recording conductivity levels, discrete samples were collected at the interval of highest conductivity using a Hydrasleeve[™]. Geochemical water quality parameters (pH, temperature, and conductivity) were recorded at the sampling depth. All non-disposable groundwater sampling equipment was thoroughly decontaminated between measurements to prevent possible cross-contamination between wells. Laboratory-supplied sample containers were filled directly from the Hydrasleeve[™].

Groundwater samples were placed on ice in insulated coolers and chilled to a temperature of approximately 4°C (40°F). Groundwater samples were submitted by Arcadis under chain-of-custody (COC) protocol to Pace Analytical for analysis of BTEX by Environmental Protection Agency (EPA) Method 8021B and chloride by Method 300.



Cumulative Summary of Groundwater Potentiometric Elevation Data

Well ID	Date	Depth to Groundwater (ft toc²)	Depth to LNAPL (ft toc²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl³)	Total Well Depth (ft toc²)	Well Diameter (inches)	Well Screen Interval (ft bgs⁴)
			(11100)					
MW-3	7/28/98	59.53			3637.32	70.15	2.00	55 - 75
3696.85	6/25/99	59.06			3637.79			
	2/16/01	59.53			3637.32			
	6/11/02	59.18			3637.67			
	11/26/02	59.54			3637.31			
	6/5/03	59.45			3637.40			
	12/3/03	59.47			3637.38			
	7/1/04	59.24			3637.61			
	12/20/04	58.83			3638.02			
	6/6/05	58.53			3638.32			
	12/12/05	57.83			3639.02			
	1/25/06	57.85			3639.00			
	5/1/06	57.59			3639.26			
	6/26/06	57.66			3639.19			
	12/18/06	57.54			3639.31			
	3/16/07	57.43			3639.42			
	6/26/07	57.31			3639.54			
	9/27/07	57.89			3638.96			
	12/13/07	57.61			3639.24			
	3/6/08	57.70			3639.15			
	6/4/08	57.33			3639.52			
	9/4/08	57.45			3639.40			
	11/13/08	57.26			3639.59			
	3/5/09	57.65			3639.20			
	6/15/09	57.40			3639.45			
	9/9/09	57.64			3639.21			
	11/19/09	57.59			3639.26			
	3/23/10	57.60			3639.25			
	6/29/10	58.34			3638.51			
	9/22/10	58.35			3638.50			
	11/8/10	57.61			3639.24			
	6/2/11	57.49			3639.36			
	12/1/11	58.42			3638.43			
	3/7/12	57.92			3638.93			
	6/26/12	57.89			3638.96			
	9/20/12	58.14			3638.71			
	11/26/12	58.15			3638.70			
	3/14/13	58.10			3638.75			
1	6/14/13	58.64	58.63	0.01	3638.22			
1	9/13/13	58.48			3638.37			
1	11/20/13	58.02			3638.83			



1



Well ID	Date	Depth to Groundwater	Depth to LNAPL	LNAPL Thickness	Groundwater Elevation	Total Well Depth	Well Diameter	Well Screen Interval
toc elevation		(ft toc²)	(ft toc²)	(ft)	(ft msl³)	(ft toc²)	(inches)	(ft bgs⁴)
MW-3 Cont.	3/20/14	57.89			3638.96	68.09		
	7/31/14	57.88			3638.97	67.97		
	9/22/14			 I	not gauged			
	12/12/14	57.46			3639.39			
	3/31/15			 I	not gauged		 I	
	6/9/15	57.22			3639.63	67.75		
	9/16/15	56.97			3639.88 3640.28	67.97		
	12/9/15	56.57				67.92		
	3/7/16 6/21/16	56.50 56.51			3640.35 3640.34	67.89 67.92		
	8/31/16	56.82			3640.03	67.88		
	12/8/16	56.54			3640.31	67.94		
	3/9/17	56.27			3640.58			
	6/13/17	56.22			3640.63	67.87		
	9/5/17	56.40			3640.45	07.07		
	11/28/17	56.30			3640.55			
	3/22/18	56.25			3640.60			
	6/14/18	52.23			3644.62	67.79		
	9/6/18	56.45			3640.40	67.71		
	12/13/18	56.54			3640.31	67.81		
	2/7/19	56.72			3640.13	67.78		
	5/2/19	56.91			3639.94	67.70		
	8/1/19	56.88			3639.97	67.66		
	11/18/19	57.00			3639.85	69.65		
	3/26/20	57.15			3639.70	67.65		
	6/22/20	57.40			3639.45	67.87		
	8/20/20	57.39			3639.46			
	3/16/21	57.57			3639.28			
	5/18/21	57.69			3639.16	67.76		
	7/19/21	57.84			3639.01			
	11/4/21	57.93			3638.92			
	3/8/22	57.83			3639.02	67.83		
	6/8/22	58.09			3638.76			
	8/15/22	58.05			3638.80	65.93		
	11/18/22	58.22			3638.63	67.70		
MW-4	7/28/98	69.72			3629.78	68.74	2.00	55 - 75
3699.50 ft	6/25/99	62.31			3637.19			
	2/16/01	62.52			3636.98			
	6/11/02	62.39			3637.11			
	11/26/02	62.76			3636.74			
	6/5/03	62.71			3636.79			
	12/3/03	62.67			3636.83			
	7/1/04	62.43			3637.07			
	12/20/04	62.02			3637.48			
	6/6/05	61.67			3637.83			
	12/12/05	61.11			3638.39			
	1/25/06 5/1/06	61.11 60.89			3638.39 3638.61			
	6/26/06	60.89			3638.57			
	6/26/06	60.93			3638.57 3638.71			
	3/16/07	60.79			3638.78			
	6/26/07	60.60			3638.90			
	9/27/07	61.02			3638.48			
	9/2//0/ 12/13/07	60.88			3638.62			
	3/6/08	60.96			3638.54			
L	3/0/00	00.90			3030.04		1	



Well ID	Date	Depth to Groundwater	Depth to LNAPL	LNAPL Thickness	Groundwater Elevation	Total Well Depth	Well Diameter	Well Screen Interval
toc elevation		(ft toc ²)	(ft toc ²)	(ft)	(ft msl ³)	(ft toc ²)	(inches)	(ft bgs⁴)
MW-4 Cont.	6/4/08	60.65			3638.85			
	9/4/08	60.75			3638.75			
	11/13/08	60.61			3638.89			
	3/5/09	60.75			3638.75			
	6/15/09	60.70			3638.80			
	9/9/09 11/19/09	60.89 60.83			3638.61 3638.67			
	3/23/10	60.83			3638.59			
	6/29/10	61.54			3637.96			
	9/22/10	61.53			3637.97			
	11/8/10	60.96			3638.54			
	6/2/11	60.85			3638.65			
	12/1/11	61.63			3637.87			
	3/7/12	61.16			3638.34			
	6/26/12	61.16			3638.34			
	9/20/12	61.33			3638.17			
	11/26/12	61.40			3638.10			
	3/14/13	61.75			3637.75			
	6/14/13	61.80			3637.70			
	9/13/13	61.70			3637.80			
	11/20/13	61.18			3638.32			
	3/20/14	61.99			3637.51	63.65		
	7/31/14 9/22/14	61.03			3638.47 not gauged	63.60		
	9/22/14	60.71			3638.79			
	3/31/15	00.71			not gauged			
	6/9/15	60.47			3639.03	63.63	ĺ	
	9/16/15	60.29			3639.21	63.65		
	12/9/15	59.93			3639.57			
	3/7/16	59.82			3639.68	63.65		
	6/21/16	59.83			3639.67	63.67		
	8/31/16	60.14			3639.36	63.66		
	12/8/16	59.88			3639.62	63.67		
	3/9/17	59.60			3639.90			
	6/13/17	59.55			3639.95	63.62		
	9/5/17	59.70			3639.80			
	11/28/17	59.60			3639.90			
	3/22/18	59.61			3639.89			
	6/14/18 9/6/18	59.61 59.80			3639.89 3639.70	63.71 63.70		
	12/13/18	59.96		_	3639.54	63.61		
	2/7/19	60.03			3639.47	63.66		
	5/2/19	60.18			3639.32	63.68		
	8/1/19	60.14			3639.36	63.66		
	11/18/19	60.27			3639.23	64.81		
	3/26/20	60.48			3639.02	63.69		
	6/22/20	60.61			3638.89	63.81		
	8/20/20	60.69			3638.81			
	3/16/21 5/18/21	60.83 60.98			3638.67 3638.52	63.74		
	5/18/21	60.98			3638.52	63.74		
	11/4/21	61.19			3638.31			
	3/8/22	61.13			3638.37	63.74		
	6/8/22	61.35			3638.15	63.74		
	8/15/22	61.32			3638.18	63.73		
	11/18/22	61.48			3638.02	63.74		





Well ID	Date	Depth to Groundwater	Depth to LNAPL	LNAPL Thickness	Groundwater Elevation	Total Well Depth	Well Diameter	Well Screen Interval
toc elevation		(ft toc²)	(ft toc ²)	(ft)	(ft msl³)	(ft toc²)	(inches)	(ft bgs⁴)
MW-5	7/28/98	56.53			3636.99	66.80	2.00	48 - 68
3693.52	3/23/99	56.30			3637.22			
	6/25/99	56.21			3637.31			
	2/16/01	56.31			3637.21			
	6/11/02	56.29			3637.23			
	11/26/02	56.13			3637.39			
	6/5/03	56.53			3636.99			
	12/3/03	56.57			3636.95			
	7/1/04	54.34			3639.18			
	12/20/04	55.86			3637.66			
	6/6/05	55.60			3637.92			
	12/12/05	55.04			3638.48			
	1/25/06	55.07			3638.45			
	5/1/06	54.87			3638.65			
	6/26/06	54.86			3638.66			
	12/18/06	54.61			3638.91			
	3/16/07	54.51			3639.01			
	6/26/07	54.49			3639.03			
	9/27/07	54.84			3638.68			
	12/13/07	54.74			3638.78			
	3/6/08	54.77			3638.75			
	6/4/08	54.58			3638.94			
	9/4/08	54.68			3638.84			
	11/13/08	54.57			3638.95			
	3/5/09	54.70			3638.82			
	6/15/09	54.69			3638.83			
	9/9/09	54.86			3638.66			
	11/19/09	54.81			3638.71			
	3/23/10	54.80			3638.72			
	6/29/10	55.38			3638.14			
	9/22/10	55.40			3638.12			
	11/8/10	54.84			3638.68			
	6/2/11	55.79			3637.73			
	12/1/11	55.49			3638.03			
	3/7/12	54.14			3639.38			
	6/26/12	55.14			3638.38			
	9/20/12	55.28			3638.24			
	11/26/12	55.37			3638.15			
	3/14/13	55.30			3638.22			
	6/14/13	55.60			3637.92			
	9/13/13	55.54			3637.98			



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Well ID	Date	Depth to Groundwater	Depth to LNAPL	LNAPL Thickness	Groundwater Elevation	Total Well Depth	Well Diameter	Well Screen Interval
toc elevation		(ft toc²)	(ft toc ²)	(ft)	(ft msl³)	(ft toc²)	(inches)	(ft bgs⁴)
MW-5 Cont.	11/20/13	55.34			3638.18			
	3/20/14	55.02			3638.50	65.04		
	7/31/14	54.92			3638.60	64.93		
	9/22/14				not gauged		 I	1
	12/12/14	54.58			3638.94			
	3/31/15				not gauged		 I	1
	6/9/15	54.32			3639.20	64.86		
	9/16/15	54.22			3639.30	64.91		
	12/9/15	53.94			3639.58	64.85		
	3/7/16	53.85			3639.67	64.85		
	6/21/16	53.86			3639.66	64.80		
	8/31/16	54.10			3639.42	64.83		
	12/8/16	53.79			3639.73	64.80		
	3/9/17	53.71			3639.81			
	6/13/17	53.60			3639.92	64.80		
	9/5/17 11/28/17	53.75 53.69			3639.77 3639.83			
	3/22/18	53.65			3639.83			
	6/14/18	52.63			3640.89	55.83		
	9/6/18	53.80			3639.72	64.78		
	12/13/18	53.80			3639.72	64.78		
	2/7/19	53.95			3639.57	64.70		
	5/2/19	54.12			3639.40	64.70		
	8/1/19	54.14			3639.38	64.70		
	11/18/19	54.36			3639.16	65.85		
	3/26/20	54.55			3638.97	64.71		
	6/22/20	54.64			3638.88	64.81		
	8/20/20	55.76			3637.76			
	3/16/21	54.90			3638.62			
	5/18/21	55.56			3637.96			
	7/19/21	55.15			3638.37			
	11/4/21	55.21			3638.31			
	3/8/22	55.22			3638.30	64.83		
	6/8/22	55.40			3638.12			
	8/15/22	33.06			3660.46	64.79		
	11/18/22	55.54			3637.98	64.82		
MW-6	7/28/98	67.86			3636.95	78.25	2.00	56 - 76
3704.81	6/25/99	67.25			3637.56			
	2/16/01	67.45			3637.36			
	6/11/02	67.19			3637.62			
	11/26/02	67.09			3637.72			
	6/5/03	67.57			3637.24			
	12/3/03	67.61			3637.20			
	7/1/04	67.43			3637.38			
	12/20/04 6/6/05	67.55 66.41			3637.26 3638.40			
	12/12/05	65.80			3639.01			
	1/25/06	65.88			3638.93			
	5/1/06	65.57			3639.24			
	6/26/06	65.82			3638.99			
	12/18/06	65.67			3639.14			
	3/16/07	65.69			3639.12			
	6/26/07	65.41			3639.40			
	9/27/07	66.46			3638.35			



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		Depth to	Depth to	LNAPL	Groundwater	Total Well	Well	Well Screen
Well ID	Date	Groundwater	LNAPL	Thickness	Elevation	Depth	Diameter	Interval
toc elevation		(ft toc²)	(ft toc ²)	(ft)	(ft msl³)	(ft toc²)	(inches)	(ft bgs⁴)
MW-6 Cont.	3/6/08	65.68			3639.13			
	6/4/08	65.39			3639.42			
	9/4/08	65.56			3639.25			
	11/13/08 3/5/09	65.32 65.88			3639.49 3638.93			
	6/15/09	65.38			3639.43			
	9/9/09	65.67			3639.14			
	11/19/09	65.70			3639.11			
	3/23/10	65.69			3639.12			
	6/29/10	66.69			3638.12			
	9/22/10	66.72			3638.09			
	11/8/10	65.75			3639.06			
	3/3/11	65.52			3639.29			
	6/2/11 9/27/11	65.28 67.49			3639.53 3637.32			
	9/27/11	66.55			3638.26			
	3/7/12	66.00			3638.81			
	6/26/12	65.92			3638.89			
	9/20/12	66.53			3638.28			
	11/26/12	66.19			3638.62			
	3/14/13	65.96			3638.85			
	6/14/13	67.08			3637.73			
	9/13/13	66.75			3638.06			
	11/20/13	65.94			3638.87			
	3/20/14 7/31/14	66.24 66.49			3638.57 3638.32	75.54 75.43		
	9/22/14	66.84			3637.97	75.43		
	12/12/14	65.63			3639.18			
	3/31/15	65.24			3639.57	75.44		
	6/9/15	65.61			3639.20	75.08		
	9/16/15	64.99			3639.82	75.00		
	12/9/15	64.63			3640.18	74.91		
	3/7/16	64.39			3640.42	74.91		
	6/21/16	64.45			3640.36	74.35		
	8/31/16	64.95			3639.86	74.80		
	12/8/16	64.56			3640.25	74.78		
	3/9/17 6/13/17	64.10 64.06			3640.71 3640.75	74.85		
	9/5/17	64.40			3640.41			
	11/28/17	64.28			3640.53			
	3/22/18	64.22			3640.59			
	6/14/18	64.05			3640.76	73.25		
	9/6/18	64.33			3640.48	73.35		
	12/13/18	64.48			3640.33	73.61		
	2/7/19	64.71			3640.10	73.44		
	5/2/19	65.06			3639.75	73.89 73.41		
	8/1/19 11/18/19	64.79 64.82			3640.02 3639.99	73.41 74.91		
	3/26/20	65.05			3639.76	73.55		
	6/22/20	65.16			3639.65	73.62		
	8/20/20	65.26			3639.55			
	11/9/20	65.43			3639.38			
	3/16/21	65.43			3639.38			
	5/18/21	65.75			3639.06	73.58		
	7/19/21	65.83			3638.98	73.77		
	11/4/21	65.97			3638.84			
	3/8/22 6/8/22	65.72 65.93			3639.09 3638.88	73.83		
	6/8/22 8/15/22	65.93			3638.88	79.84		
	11/18/22	66.23			3638.58	73.84		



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Well ID	Date	Depth to Groundwater	Depth to LNAPL	LNAPL Thickness	Groundwater Elevation	Total Well Depth	Well Diameter	Well Screen Interval
toc elevation		(ft toc²)	(ft toc ²)	(ft)	(ft msl³)	(ft toc²)	(inches)	(ft bgs⁴)
MW-7	7/28/98	58.08			3636.50	68.88	2.00	49 - 69
3694.58	6/25/99	57.96			3636.62			
	2/16/01	58.09			3636.49			
	6/11/02	58.07			3636.51			
	11/26/02	57.92			3636.66			
	6/5/03	58.29			3636.29			
	12/3/03	58.33			3636.25			
	7/1/04	58.11			3636.47			
	12/20/04	57.62			3636.96			
	6/6/05	57.28			3637.30			
	12/12/05	56.84			3637.74			
	1/25/06	56.86			3637.72			
	5/1/06	56.69			3637.89			
	6/26/06	56.66			3637.92			
	12/18/06	56.40			3638.18			
	3/16/07	56.28			3638.30			
	6/26/07	56.29			3638.29			
	9/27/07	56.59			3637.99			
	12/13/07	56.51			3638.07			
	3/6/08	56.56			3638.02			
	6/4/08	56.38			3638.20			
	9/4/08	56.49			3638.09			
	11/13/08	56.40			3638.18			
	3/5/09	56.48			3638.10			
	6/15/09	56.51			3638.07			
	9/9/09	56.64			3637.94			
	11/19/09	56.59			3637.99			
	3/23/10	56.63			3637.95			
	6/29/10	57.13			3637.45			
	9/22/10	57.15			3637.43			
	11/8/10	56.61			3637.97			
	6/2/11	56.58			3638.00			
	12/1/11	57.22			3637.36			
	3/7/12	56.92			3637.66			
	6/26/12	56.93			3637.65			
	9/20/12	57.01			3637.57			
	11/26/12	57.13			3637.45			



14/-11 ID	Date	Depth to	Depth to		Groundwater	Total Well	Well	Well Screen
Well ID		Groundwater	LNAPL	Thickness	Elevation	Depth	Diameter	Interval
toc elevation		(ft toc²)	(ft toc ²)	(ft)	(ft msl³)	(ft toc²)	(inches)	(ft bgs⁴)
MW-7 Cont.	3/14/13	57.02			3637.56			
	6/14/13 9/13/13	57.26 57.30			3637.32 3637.28			
	11/20/13	56.93			3637.65			
	3/20/14	56.77			3637.81	65.09		
	7/31/14	56.63			3637.95	65.09		
	9/22/14				not gauged			
	12/12/14	56.40			3638.18			
	3/31/15				not gauged			
	6/9/15	56.12			3638.46	64.91		
	9/16/15	56.04			3638.54	64.82		
	12/9/15	55.84			3638.74			
	3/7/16	55.72			3638.86	64.63		
	6/21/16	55.72			3638.86	64.60		
	8/31/16	54.94			3639.64	64.62		
	12/8/16 3/9/17	55.64 55.57			3638.94 3639.01	64.48		
	6/13/17	55.51			3639.07	64.67		
	9/5/17	55.60			3638.98			
	11/28/17	55.49			3639.09			
	3/22/18	55.61			3638.97			
	6/14/18	55.53			3639.05	64.48		
	9/6/18	55.80			3638.78	64.31		
	12/13/18	55.70			3638.88	64.30		
	2/7/19	55.79			3638.79	64.11		
	5/2/19	55.97			3638.61	64.13		
	8/1/19	55.98			3638.60	63.71		
	11/18/19	56.21			3638.37	64.70		
	3/26/20	56.39			3638.19	63.69		
	6/22/20	56.49			3638.09	63.75		
	8/20/20	56.59			3637.99			
	3/16/21	56.76			3637.82			
	5/18/21 7/19/21	56.89			3637.69			
	11/4/21	56.98 57.03			3637.60 3637.55			
	3/8/22	56.76			3637.82			
	6/8/22	57.19			3637.39			
	8/15/22	57.20			3637.38	63.72		
	11/18/22	57.34			3637.24	63.75		
MW-8	7/28/98	56.84			3637.74	66.91	2.00	46 - 66
3694.58	6/25/99	56.56			3638.02		2.00	
	2/16/01	56.49			3638.09			
	6/11/02	56.56			3638.02			
	11/26/02	56.88			3637.70			
	6/5/03	56.89			3637.69			
	12/3/03	56.91			3637.67			
	7/1/04	56.70			3637.88			
	12/20/04	56.23			3638.35			
	6/6/05	55.86			3638.72			
	12/12/05	55.29			3639.29			
	1/25/06	55.30			3639.28			
	5/1/06	55.03			3639.55			
	6/26/06 12/18/06	54.96 54.80			3639.62 3639.78			
	3/16/07	54.80 54.68			3639.78			
	3/10/07	54.00			3039.90		1	



Well ID	Date	Depth to Groundwater	Depth to LNAPL	LNAPL Thickness	Groundwater Elevation	Total Well Depth	Well Diameter	Well Screen Interval
toc elevation		(ft toc²)	(ft toc ²)	(ft)	(ft msl³)	(ft toc²)	(inches)	(ft bgs⁴)
MW-8 Cont.	6/26/07	54.67			3639.91			
	9/27/07	54.95			3639.63			
	12/13/07	54.82			3639.76			
	3/6/08	54.82			3639.76			
	6/4/08	54.70			3639.88			
	9/4/08	54.77			3639.81			
	11/13/08	54.73			3639.85			
	3/5/09	55.05			3639.53			
	6/15/09	54.96			3639.62			
	9/9/09	55.14			3639.44			
	11/19/09	55.12			3639.46			
	3/23/10	55.16			3639.42			
	6/29/10	55.66			3638.92			
	9/22/10	55.65			3638.93			
	11/8/10	55.12			3639.46			
	6/2/11	55.02			3639.56			
	12/1/11	55.73			3638.85			
	3/7/12	55.46			3639.12			
	6/26/12	55.46			3639.12			
	9/20/12	55.50			3639.08			
	11/26/12	55.57			3639.01			
	3/14/13	55.38			3639.20			
	6/14/13	55.61			3638.97			
	9/13/13	55.65			3638.93			
	11/20/13	55.43			3639.15			
	3/20/14	55.22			3639.36	61.11		
	7/31/14	55.19			3639.39	61.40		
	9/22/14				not gauged			
	12/12/14	54.75			3639.83			
	3/31/15				not gauged			
	6/9/15	54.43			3640.15	61.13		
	9/16/15	54.33			3640.25	61.15		
1	12/9/15	54.28			3640.30			
	3/7/16	54.01			3640.57	61.14		
1	6/21/16	54.02			3640.56	61.18		
	8/31/16	54.20			3640.38	61.25		
	12/8/16	53.82			3640.76	61.01		
	3/9/17	53.75			3640.83			
1	6/13/17	53.75			3640.83	64.91		
1	9/5/17	53.80			3640.78			
1	11/28/17	53.70			3640.88			



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		Depth to	Depth to	LNAPL	Groundwater	Total Well	Well	Well Screen
Well ID	Date	Groundwater	LNAPL	Thickness	Elevation	Depth	Diameter	Interval
toc elevation		(ft toc²)	(ft toc ²)	(ft)	(ft msl³)	(ft toc²)	(inches)	(ft bgs⁴)
MW-8 Cont.	3/22/18	53.70			3640.88			
	6/14/18 9/6/18	53.77 54.00		-	3640.81 3640.58	61.21 61.15		
	12/13/18	54.00			3640.57	61.12		
	2/7/19	54.10			3640.48	61.16		
	5/2/19	54.30			3640.28	64.76		
	8/1/19	54.40		-	3640.18	61.16		
	11/18/19	54.67		-	3639.91	62.40		
	3/26/20	54.82			3639.76	64.65		
	6/22/20	55.03			3639.55	64.85		
	8/20/20 3/16/21	55.03 55.22			3639.55 3639.36			
	5/18/21	55.30			3639.30			
	7/19/21	55.42			3639.16			
	11/4/21	55.50			3639.08			
	3/8/22	55.22			3639.36	61.23		
	6/8/22	55.72			3638.86			
	8/15/22	55.72			3638.86	64.82		
	11/18/22	55.89			3638.69	61.25		
MW-9R*	6/9/15 9/16/15	46.99 46.93				62.12 62.12	2.00	29.5 - 59.5
(not surveyed)	9/16/15 12/9/15	46.93 46.72				UZ. 12		
	3/7/16	46.62				62.08		
	6/21/16	46.58				62.13		
	8/31/16	46.77				62.18		
	12/8/16	46.48				62.02		
	3/9/17	46.40						
	6/13/17	46.43				62.13		
	9/5/17	46.50						
	11/28/17 3/22/18	46.23 46.36						
	6/15/18	46.39				62.14		
	9/6/18	46.61				62.07		
	12/13/18	46.51				62.41		
	2/7/19	46.59				62.05		
	5/2/19	46.77				62.16		
	8/1/19	46.89				62.08		
	11/18/19 3/26/20	47.16 47.32				63.91 62.30		
	6/22/20	47.48				62.33		
	8/20/20	47.54						
	3/16/21	47.78						
	5/18/21	47.85				62.82		
	7/19/21	47.95						
	11/4/21	48.00						
	3/8/22	48.03				62.70		
	6/8/22 8/15/22	48.18 48.21				62.23		
	6/15/22 11/18/22	48.40				62.23		
RW-1	11/3/99	62.17			3637.75	71.60	4.00	55 - 75
3699.92	2/16/01	62.37	62.33	0.04	3637.59		4.00	00-10
	6/11/02	62.26	61.86	0.40	3638.01			
	11/26/02	62.60	62.07	0.53	3637.79			
	6/5/03	63.00	62.84	0.16	3637.06			
	12/3/03	63.26	62.61	0.65	3637.23			
	7/1/04	63.10	62.33	0.77	3637.50			
	12/20/04 3/1/05	61.80	60.96	0.84	3638.86 groundwater extra		l 	I [
	3/1/05	61.44	58.67	2.77	groundwater extrac 3640.92			I I
	5/1/06	61.56	58.38	3.18	3641.16			
	6/26/06	61.59	58.43	3.16	3641.11			
	12/18/06	58.78	58.55	0.23	3641.34			
	3/16/07	58.74	58.30	0.44	3641.57			
	6/26/07	58.52	58.37	0.15	3641.53			
	9/27/07	59.40	58.72	0.68	3641.13			
	12/13/07	60.90	58.44	2.46	3641.23			
	3/6/08 6/4/08	59.24 59.37	58.76 58.59	0.48 0.78	3641.11 3641.25			
	9/4/08	59.37	58.59	0.78	3641.25			
	11/13/08	60.59	58.10	2.49	3641.56			
l	11/13/00	00.09	50.10	2.48	3041.30		I	I



Page (50 o	f 1	36
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Well ID toc elevation	Date	Depth to Groundwater (ft toc²)	Depth to LNAPL (ft toc²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl³)	Total Well Depth (ft toc²)	Well Diameter (inches)	Well Screen Interval (ft bgs⁴)
RW-1 Cont.	3/5/09	60.82	58.50	2.32	3641.18			
	6/15/09	60.65	58.28	2.37	3641.40			
	9/9/09	60.77	58.50	2.27	3641.19			
	11/19/09	58.96	58.63	0.33	3641.26			
	3/23/10	61.51	58.80	2.71	3640.84			
	6/29/10	62.18	59.00	3.18	3640.59			
	9/22/10	60.80	58.40	2.40	3641.27			
	11/8/10	61.16	58.39	2.77	3641.24			
	6/2/11	61.23	58.36	2.87	3641.26			
	9/27/11	62.44	59.43	3.01	3640.18			
	12/2/11	62.24	58.95	3.29	3640.63			
	3/7/12	61.10	58.80	2.30	3640.88			
	6/26/12	60.80	58.80	2.00	3640.91			
	9/20/12	62.09	58.84	3.25	3640.75			
	11/26/12	62.24	58.85	3.39	3640.72			
	3/14/13	61.96	58.72	3.24	3640.87			
	6/14/13 9/13/13	62.51 62.91	59.12	3.39	3640.45			
	9/13/13	62.91	60.05	2.86	3639.58 not gauged			
	3/20/13	61.36	58.61	2.75	3641.03			1
	7/31/14	60.87	58.69	2.75	3641.03			
	9/22/14	00.87	56.09	2.10	not gauged		l 	
	12/12/14	59.98	58.31	1.67	3641.44		1	1
	3/31/15	58.76	58.07	0.69	3641.78	70.99		
	6/9/15	60.44	58.00	2.44	3641.67			
	9/16/15	59.92	57.80	2.12	3641.90			
	12/9/15				not gauged			
	3/7/16	57.76	57.75	0.01	3642.17			
	6/21/16	57.64	57.62	0.02	3642.30			
	8/31/16	57.41	57.34	0.07	3642.57			
	12/8/16	57.61		trace	3642.31			
	3/1/17			skimmer pum	p removed, absorb	ant sock install	ed	
	3/9/17	57.45		trace	3642.47			
	6/13/17	57.36	57.34	0.02	3642.58			
	9/5/17				not gauged			
	11/28/17	57.31			3642.61			
	1/9/18	57.42			3642.50			
	1/26/18	57.50		trace	3639.35			
	2/5/18	57.21			3642.71			
	2/20/18	57.35		trace	3639.50			
	3/8/18	57.25		trace	3639.60			

Well ID	Date	Depth to Groundwater	Depth to LNAPL	LNAPL Thickness	Groundwater Elevation	Total Well Depth	Well Diameter	Well Screen Interval
toc elevation		(ft toc²)	(ft toc ²)	(ft)	(ft msl³)	(ft toc²)	(inches)	(ft bgs⁴)
RW-1 Cont.	3/22/18	57.52		trace	3642.40			
	4/2/18	57.33			3642.59			
	4/16/18	57.50			3642.42			
	5/2/18	57.38			3642.54			
	5/14/18 6/1/18	57.30		4	3642.62			
		57.32	57.00	trace	3642.60			
	6/15/18 6/27/18	57.39 57.47	57.36 57.93	0.03	3642.53 3642.45			
	7/9/18	57.49	57.95		3642.43			
	7/25/18	57.52			3642.40			
	8/6/18	57.56			3642.36			
	8/21/18	57.50		trace	3642.42			
	9/6/18	57.55		trace	3642.37			
	9/21/18	57.87			3642.05			
	10/1/18	57.70			3642.22			
	11/28/18	57.35		trace	3631.26			
	12/13/18	57.7			3642.22	71.10		
	1/9/19	58.65	58.64	trace	3641.27			
	2/7/19	57.88		trace	3642.04			
	2/21/19	57.69			3642.23			
	3/7/19	57.32	57.71		3642.60			
	3/18/19	57.74			3642.18			
	4/2/19	57.72			3642.20			
	4/18/19	58.09	57.99		3641.83			
	5/2/19	58.05	58	0.05	3641.87			
	6/9/19	60.4	58	2.40	3639.52			
	6/24/19	60.4	57.7	2.70	3639.52			
	7/23/19	60.59	57.79	2.80	3639.33			
	8/2/19	60.63	57.74	2.89	3639.29			
	8/26/19	60.63	57.74	2.89	3639.29			
	9/6/19	60.82	57.79	3.03	3639.10			
	9/18/19	60.64	57.89	2.75	3639.28			
	9/30/19	60.55	57.89	trace	3639.37			
	11/19/19	63.21	57.95	5.26	3636.71			
	1/31/20	62.10	58.10	4.00	3641.41			
	2/13/20	62.12	58.08	4.04	3641.42			
	2/26/20	61.62	58.15	3.47	3641.41			
	3/12/20	62.47	57.93	4.54	3641.52			
	3/26/20 4/10/20	62.13 61.90	57.90 57.99	4.23 3.91	3641.58 3641.53			
	4/10/20	61.84	57.99	3.82	3641.53			
	5/13/20	62.41	57.97	4.44	3641.49			
	6/23/20	62.10	58.05	4.05	3641.45			
	8/20/20	62.25	58.11	4.14	3641.38			
	9/24/20	62.41	58.21	4.20	3641.28			
	11/12/20	62.57	58.26	4.31	3641.22			
	3/16/21	62.56	58.19	4.37	3641.28			
	5/18/21	61.95	58.39	3.56	3641.16			
	7/19/21	62.89	58.53	4.36	3640.94			
	9/13/21	62.93	58.59	4.34	3640.88			
	11/4/21	62.79	58.56	4.23	3640.92			
	3/8/22	62.78	58.56	4.22	3640.93			
	6/8/22	63.25	58.26	4.99	3641.15			
	8/15/22	62.57	58.85	3.72	3640.69			
	11/18/22	62.40	59.01	3.39	3640.56			





Well ID toc elevation	Date	Depth to Groundwater (ft toc²)	Depth to LNAPL (ft toc²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl³)	Total Well Depth (ft toc²)	Well Diameter (inches)	Well Screen Interval (ft bgs⁴)
RW-2	10/14/99	53.28			3638.84	67.55	4.00	47 - 67
3692.12	11/3/99	53.95			3638.17			
	2/16/01	54.01			3638.11			
	6/11/02	54.01	53.98	0.03	3638.14			
	11/26/02	54.28	54.07	0.21	3638.02			
	6/5/03	53.24	53.23	0.01	3638.89			
	12/3/03	54.51	54.38	0.13	3637.72			
	7/1/04	54.51	54.12	0.39	3637.95			
	12/20/04	53.69	53.52	0.17	3638.58			
	3/1/05			start-up	groundwater extrac	ction system		
	1/25/06	51.55	51.14	0.41	3640.93			
	5/1/06	51.34	50.91	0.43	3641.16			
	6/26/06	51.02	50.94	0.08	3641.17			
	11/28/06			a	bsorbant sock inst	alled		
	12/18/06	51.15	50.75	0.40	3641.32			
	3/16/07	50.69			3641.43			
	6/26/07	50.63			3641.49			
	9/27/07	51.00			3641.12			
	12/13/07	50.92			3641.20			
	3/6/08	50.90			3641.22			
	6/4/08	50.65			3641.47			
	9/4/08	50.73			3641.39			
	11/13/08	50.67			3641.45			



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Well ID	Date	Depth to Groundwater	Depth to LNAPL	LNAPL Thickness	Groundwater Elevation	Total Well Depth	Well Diameter	Well Screen Interval
toc elevation		(ft toc²)	(ft toc²)	(ft)	(ft msl³)	(ft toc²)	(inches)	(ft bgs⁴)
RW-2 Cont.	3/5/09	51.03			3641.09			
	6/15/09	50.80			3641.32			
	9/9/09	51.02	50.97	0.05	3641.14			
	11/19/09	50.99	50.95	0.04	3641.17			
	3/23/10	51.16			3640.96			
	6/29/10	51.70	51.56	0.14	3640.55			
	9/22/10	51.65			3640.47			
	11/8/10	50.95	50.94	0.01	3641.18			
	11/29/10	50.89			3641.23			
	2/4/11	50.82			3641.30			
	6/2/11	50.91			3641.21			
	9/27/11	51.97			3640.15			
	12/2/11	51.85			3640.27			
	3/7/12	51.33			3640.79			
	6/26/12	51.35	51.27	0.08	3640.84			
	9/20/12	51.54	51.40	0.14	3640.71			
	11/26/12	55.26			3636.86			
	3/14/13	51.50			3640.62			
	6/14/13	52.20	51.73	0.47	3640.34			
	9/13/13	51.89	51.74	0.15	3640.36			
	11/20/13	51.29	51.26	0.03	3640.86			
	3/20/14	51.12			3641.00			
	7/31/14	51.14			3640.98			
	9/22/14	51.49			3640.63			
	12/12/14	50.98			3641.14			
	3/31/15	50.39			3641.73			
	6/9/15	50.44			3641.68	67.13		
	9/16/15	50.28			3641.84			
	12/9/16	49.92			3642.20			
	3/7/16	49.83			3642.29	67.18		
	6/21/16	49.84			3642.28	67.25		
	8/31/16	50.11			3642.01	67.22		
	12/8/16	49.83			3642.29			
	3/9/17	49.65			3642.47			
	6/13/17	49.60			3642.52	67.40		
	9/5/17	49.70			3642.42			
	11/28/17	49.57			3642.55			
	1/9/18	49.55			3642.57			
	1/26/18	49.64			3642.48			
	2/5/18	49.46		trace	3642.66			
	2/20/18	49.52			3642.60			



black (ft toc?) (ft toc?) (ft toc?) (ft toc?) (ft toc?) (ft toc?) FW2 com 30%76 445.50 3562.62 4/278 445.65 3562.62 52/18 445.51 3562.62 6/7118 440.55 3642.57 6/7118 440.55 3642.50 6/7118 440.55 3642.57 7/7518 440.75 3642.35 7/7518 440.75 3642.35 96/18 49.75 3642.32 96/18 49.75 3642.42 96/18 49.75 3642.42 96/18 49.75 3642.42 96/18 49.75 3642.42 10178 49.75 3642.42 10178 49.75 3	Well ID	Date	Depth to Groundwater	Depth to LNAPL	LNAPL Thickness	Groundwater Elevation	Total Well Depth	Well Diameter	Well Screen Interval
3/22/16 49.58 3642.20 4/16/16 49.60 3642.20 5/14/18 49.65 Trace 3642.51 6/11/18 49.65 3642.56 6/11/18 49.62 3642.50 67.38 6/27/18 49.74 3642.34 7/725/18 49.74 3642.34 8/21/16 49.76 3642.24 9/21/18 49.76 3642.24 11/28/16 49.83 3642.24 11/28/16 49.75 3642.24 11/28/17 60.32 50.31 0.01 3641.8 11/28/16 60.32 50.31 0.01 3641.43	toc elevation		(ft toc²)	(ft toc ²)	(ft)	(ft msl³)	(ft toc ²)	(inches)	(ft bgs⁴)
3/22/16 49.58 3642.20 4/16/16 49.60 3642.20 5/14/18 49.65 Trace 3642.51 6/11/18 49.65 3642.56 6/11/18 49.62 3642.50 67.38 6/27/18 49.74 3642.34 7/725/18 49.74 3642.34 8/21/16 49.76 3642.24 9/21/18 49.76 3642.24 11/28/16 49.83 3642.24 11/28/16 49.75 3642.24 11/28/17 60.32 50.31 0.01 3641.8 11/28/16 60.32 50.31 0.01 3641.43	RW-2 Cont.	3/8/18							
4/10/16 4/40/16 <t< td=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
5/2/16 4.9.61 trace 3642.57 6/1/5/16 49.65 3642.50 67.38 6/2/18 49.68 3642.44 7/3/18 49.73 3642.38 9/016 49.76 3642.24 9/0178 49.88 3642.24 9/018 49.87 3642.24 10/1178 49.87 3642.27 67.71 10/1178 49.85 3642.21 67.27 10/1178 49.85 3642.21 67.71 10/1178 49.85 3642.21 67.71 11/119/19 50.21 3641.42 11/119/19 50.22 3641.42 11/119/19		4/2/18	49.52			3642.60			
5'14/18 40.55 trace 3642.26 6'15/18 40.82 3642.26 67.38 6'15/18 40.83 3642.39 7/25/18 40.74 3642.37 8/21/18 40.76 3642.24 9/21/18 40.76 3642.24 9/21/18 40.83 3642.40 11/28/18 40.77 3642.40 11/28/18 40.77 3642.40 11/28/18 40.72 3641.22 67.71 11/28/18 40.85 3641.52 11/1719 50.55 3641.43 11/1719 50.66 3641.43 <t< td=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
9/178 49.66 3642.50 67.33 6/17178 49.62 3642.43 7/2518 49.74 3642.38 7/2518 49.75 3642.36 9/218 49.87 3642.42 9/218 49.88 3642.24 10/178 49.72 3642.42 10/178 49.85 3642.42 10/178 49.85 3642.42 12/19 50.24 3642.12 67.71 2/19 50.25 3641.22 13/170 50.72 3641.42 13/170 50.70 3641.42 13/210 <t< td=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
01/57/8 49.62 3842.40 779/18 49.73 3842.43 772/18 49.73 3842.38 8/21/18 49.75 3842.36 8/21/18 49.76 3842.22 67.20 9/21/18 49.88 3842.22 11/28/18 49.77 3842.22 67.21 11/21/18 49.75 3842.22 67.21 11/21/18 49.77 3842.22 67.21 11/21/18 49.72 3842.22 67.21 11/21/18 49.75 3841.42 11/19/19 50.55 3841.42 11/19/19 50.56 3841.42 11/19/20 <th></th> <td></td> <td></td> <td></td> <td>trace</td> <td></td> <td></td> <td></td> <td></td>					trace				
027718 49.68 3842.24 7725718 49.73 3642.38 97175718 49.74 3642.23 97178 49.76 3642.24 9718 49.80 3642.24 107178 49.72 3642.24 112818 49.7 3642.27 67.71 27719 50.24 3641.26 67.27 27719 50.24 3641.34 92719 50.32 50.31 0.01 3641.8 927120 50.60 3641.40 67.41 173120 50.63 3641.46 372020 50.60 3641.46 922200									
7/9/18 40.73 3642.30 8/18 40.75 3642.36 8/21/18 40.75 3642.26 9/21/18 40.80 3642.22 67.20 9/21/18 40.85 3642.24 11/28/18 40.77 3642.24 10/17/18 40.85 3642.22 67.71 11/28/18 40.73 3642.22 67.27 5/21/9 50.32 50.31 0.01 3641.40 67.41 11/19/19 50.55 3641.42 2/28/20 50.60 3641.42 2/28/20 50.60 3641.42 5/21/20 50.60 3641.30 5/26/20 50.60									
7/26/18 49.74 3942.38 9/21/18 49.75 3642.36 9/01/8 49.76 3642.32 67.20 9/01/8 49.80 3642.24 10/11/8 49.72 3642.24 12/31/8 49.85 3642.42 12/31/8 49.85 3642.42 12/31/8 49.85 3642.42 5/21/9 50.24 17.3641.43 3/21/20 50.60 3641.43 2/26/20 50.60 3641.42 3/26/20 50.60 3641.42 3/26/20 50.60 3641.42 3/26/20 50.60 3641.40 </td <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
8/2/118 49,76 3642,36 9/2/18 49,80 3642,22 67,20 9/2/18 49,85 3642,24 10/1/18 49,72 3642,24 12/13/18 49,85 3642,27 67,71 2/7/19 50 3641,40 67,41 2/7/19 50.27 3641,40 67,41 2/13/20 50.70 3641,42 2/26/20 50.60 3641,42 2/26/20 50.60 3641,42 4/10/20 50.66 3641,42 4/10/20 50.66 3641,41 4/2/20 50.20									
96/18 49.80 3842.32 67.20 9/21/18 49.88 3842.42 11/22/14 49.72 3842.42 27/19 50.24 3842.12 67.27 57/219 50.32 50.31 0.01 3641.8 9/218 50.24 3841.43 11/19/19 50.55 3841.43 21/320 50.70 3841.43 31/220 50.66 3841.52 31/220 50.66 3841.52 31/220 50.80 3841.92 6/2220 50.80 3841.92 6/220 50.80 3841.92 6/122		8/6/18	49.75			3642.37			
9/21/18 49.82 3642.24 11/21/18 49.72 3642.24 12/13/18 49.85 3642.27 67.71 12/13/18 49.85 364.12 67.27 52/19 50.32 50.31 0.01 3641.88 8/2/19 50.35 364.157 69.80 11/19/19 50.50 364.143 2/2620 50.60 364.142 3/2620 50.60 364.142 3/2620 50.60 364.142 6/10/20 50.66 364.143 6/2202 50.83 364.121 6/10/20 50.66 364.120 <td< td=""><th></th><td>8/21/18</td><td>49.76</td><td></td><td></td><td>3642.36</td><td></td><td></td><td></td></td<>		8/21/18	49.76			3642.36			
10/1/18 49.72 3642.40 11/28/18 49.7 3642.27 67.71 27/19 50 3642.12 67.27 27/19 50.32 50.31 0.01 3641.8 8/219 50.32 50.31 0.01 3641.43 213/20 50.70 3641.43 213/20 50.60 3641.43 312/20 50.60 3641.43 32/202 50.60 3641.42 32/202 50.60 3641.42 4/24/20 50.70 3641.42 4/24/20 50.70 3641.31 4/24/20 50.70 3641.31 4/24/20 50.92		9/6/18	49.80			3642.32	67.20		
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9/4/08 50.90 3639.96									
	L	9/4/08	50.90			3639.96		1	



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Well ID	Date	Depth to Groundwater (ft toc²)	Depth to LNAPL (ft toc²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl³)	Total Well Depth (ft toc²)	Well Diameter (inches)	Well Screer Interval (ft bgs⁴)
RW-3 Cont.	11/13/08	50.15			3640.71			
	3/5/09	50.49			3640.37			
	6/15/09	50.35			3640.51			
	9/9/09	50.52			3640.34			
	11/19/09	50.50			3640.36			
	3/23/10	51.73			3639.13			
	6/29/10	51.10			3639.76			
	9/22/10	51.22			3639.64			
	11/8/10	50.65	50.64	0.01	3640.22			
	2/4/11	50.39			3640.47			
	6/2/11	54.01			3636.85			
	9/27/11	51.55			3639.31			
	12/2/11	51.39			3639.47			
	3/7/12	51.00	50.85	0.15	3639.99			
	6/26/12	50.90	50.84	0.06	3640.01			
	9/20/12			not g	auged (obstruction	in well)		
	11/26/12			not g	auged (obstruction	in well)		
	3/14/13	51.02			3639.84	51.10		
	6/14/13	51.41	51.25	0.16	3640.85			
	9/13/13	51.70	51.02	0.68	3641.03			
	11/20/13	50.93	50.86	0.07	3641.25			
	3/20/14	50.68			3640.18			
	7/31/14	50.69			3640.17			
	9/22/14	50.97			3639.89			
	12/12/14	50.41			3640.45			
	3/31/15	49.93			3640.93			
	6/9/15	49.95			3640.91	68.09		
	9/16/15	49.82			3641.04			
	12/9/15	49.77			3641.09	67.27		
	3/7/16	49.43			3641.43	67.93		
	6/21/16	49.44			3641.42	68.02		
	8/31/16	49.69			3641.17	68.05		
	12/8/16	49.39			3641.47			
	3/9/17	49.23			3641.63			
	6/13/17	49.18			3641.68	68.10		
	9/5/17	49.31			3641.55			
	11/28/17	49.12			3641.74			
	1/9/18	49.10			3641.76			
	1/26/18	49.20			3641.66			
	2/5/18	49.03			3641.83			
	2/20/18	49.17			3641.69		1	

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Well ID Date Groundwater LNAPL Thickness Elevation Depth Diameter Interval									
No. 4 (tt toc?) (t	Well ID	Date							Well Screen
322/18 449.20 3841.86 4/16/18 50.20 3640.66 57/18 50.20 3640.66 6/17/18 49.20 3641.66 6/17/18 49.22 3641.58 6/17/18 49.23 3641.58	toc elevation								
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RV4 Cont. 88.30 88.44 0.08 3841.65									
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128/16 98.70 0.23 9814.45	toc elevation		(ft toc²)	(ft toc ²)	(ft)	(ft msl³)	(ft toc²)	(inches)	(ft bgs⁴)
3/1/17	RW-4 Cont.	8/31/16	58.30	58.24	0.06	3641.69			
30177 98.34 95.37 0.01 3041.57			58.70						
613171 58.54 58.38 0.16 3641.53 11/22017 50.07 58.11 0.28 3641.63 11/22018 59.07 58.15 1.02 3641.63 2/5718 58.63 58.05 0.48 3841.74 3/0718 58.69 68.11 0.87 3841.74 3/0718 58.69 68.11 0.87 3841.74 3/0718 58.69 68.10 0.01 3841.74 4/248 58.61 68.10 0.01 3841.74 5/2718 59.38 68.21 0.00 3841.64 5/2718 59.39 68.23 1.00 3841.65 6/1718 59.29 58.24 1.00 3841.64 6/7718 59.33 58.24 1.05 3841.57 6/7718 59.33 58.23 1.02 3841.57			58.38	1			ant sock install	ea	
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8/15/22 64.27 59.65 4.62 3639.81									
		11/18/22	63.90	59.85	4.05	3639.67			





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Well ID toc elevation	Date	Depth to Groundwater (ft toc²)	Depth to LNAPL (ft toc²)	LNAPL Thickness (ft)	Groundwater Elevation (ft msl³)	Total Well Depth (ft toc²)	Well Diameter (inches)	Well Screen Interval (ft bgs⁴)		
WW-1	6/11/02	66.35	66.35 3637.82 unknown unknown							
3704.17	6/5/03	68.25			3635.92					
				1	not gauged since 2	003				
WW-2	6/11/02	66.18			3637.66	unknown	unknown	unknown		
3703.84	11/26/02	66.18			3637.66	GINGIOWIT	GINGIOWIT	GINGIOWIT		
0700.04	6/5/03	68.54			3635.30					
		00.04	not gauged since 2003							

Notes:

Data through June 6, 2005 provided by Larson & Associates, Inc.

toc - top of casing.

msl - mean sea level.

bgs - below ground surface.

Corrected groundwater elevations from July 1998 to December 2006 were calculated using LNAPL specific gravity of 0.88. Corrected groundwater elevations from January 2007 to current were calculated using LNAPL specific gravity of 0.897.

MW-1, MW-2 and MW-9 were plugged and abandoned and replaced with RW-1, RW-2 and RW-3 in November 1999.

Monitor wells (MWs) are 2-inch in diameter (exept for MW-9R); Recovery wells (RWs) are 4-inch in diameter. *MW-9R was installed May 19, 2015. An elevation survey of this monitoring well had not been completed prior to submission of this report.

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Cumulative Summary of Groundwater Analytical Results



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality (Control Commiss	ion Groundwater	Standard	
		0.0051	1.0 ¹	0.7 ¹	0.62 ¹	250²
MW-3	7/28/98	0.003	<0.001	<0.001	0.002	36
MW-3	2/16/01	<0.005	<0.005	<0.005	<0.005	31
MW-3	6/12/02	<0.005	<0.005	<0.005	<0.005	27.1
MW-3	11/26/03	<0.001	<0.001	<0.001	<0.001	31.9
MW-3	6/6/03	<0.001	<0.001	<0.001	<0.001	27.5
MW-3	12/4/03	<0.001	<0.001	<0.001	0.0017	26.1
MW-3	7/2/04	<0.005	<0.005	<0.005	<0.005	28
MW-3	12/21/04	<0.005	<0.005	<0.005	<0.005	32.3
MW-3	6/6/05	<0.00100	<0.00100	<0.00100	<0.00100	34.3
MW-3	12/13/05	<0.005	<0.005	<0.005	<0.010	29.3
MW-3	6/27/06	<0.005	<0.005	<0.005	<0.010	31.1
MW-3	12/19/06	<0.005	<0.005	<0.005	<0.001	28
MW-3	6/27/07	<0.005	<0.005	<0.005	<0.010	31
MW-3	12/14/07	<0.005	<0.005	<0.005	<0.010	31
MW-3	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	30
MW-3	11/14/08	< 0.00037	< 0.00039	< 0.00042	< 0.00035	32
DUP	11/14/08	<0.00037	< 0.00039	< 0.00042	< 0.00035	32
MW-3	6/16/09	< 0.00037	<0.00039	< 0.00042	<0.00035	35
MW-3	11/20/09	< 0.00037	<0.00039	< 0.00042	< 0.00035	40
MW-3	7/1/10	< 0.00020	< 0.00020	< 0.00020	< 0.00070	50.4
MW-3	11/9/10	<0.0001	<0.0001	<0.0001	< 0.0003	64
MW-3	6/2/11	0.00053J	0.00061J	<0.0010	<0.0030	90.7
MW-3 DUP	12/2/11 12/2/11	<0.0001 <0.0001	<0.0001 <0.0001	<0.0001 <0.0001	<0.0003 <0.0003	85.0 85.7
MW-3	6/26/12	<0.0001	<0.0001	<0.0001	<0.0003	05.7 114
MW-3	11/26/12	<0.0001	<0.0001	0.0001	0.00345	94.6
MW-3	6/14/13	<0.0001	<0.002	<0.001	< 0.001	94.0 79
MW-3	11/27/13	<0.001	<0.002	<0.001	<0.001	101
MW-3	8/1/14	<0.001	<0.002	< 0.001	<0.003	75.6
MW-3	12/12/14	<0.001	<0.002	<0.001	< 0.003	137
MW-3	6/9/15	<0.001	<0.002	< 0.001	< 0.003	89.1
MW-3	12/9/15	< 0.001	< 0.002	< 0.001	< 0.003	67.8
MW-3	6/21/16	< 0.002	< 0.002	<0.002	<0.002	57.9
MW-3	12/8/16	<0.002	<0.002	<0.002	<0.002	60.6
MW-3	6/14/17	<0.002	<0.002	<0.002	<0.002	55.0
MW-3	11/29/17	<0.002	<0.002	<0.002	<0.002	49.8
MW-3	6/14/18	<0.002	<0.002	<0.002	<0.002	50.6
MW-3	12/13/18	<0.0020	<0.0020	<0.002	<0.002	50.0
MW-3	5/6/19	<0.0020	<0.0020	<0.0020	<0.0020	53.0
MW-3	11/19/19	<0.0010	<0.0010	<0.0010	<0.0020	59.0
MW-3	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	140
MW-3	5/19/21	0.000457 J	<0.000412	<0.000160	<0.000510	75
MW-3	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	74.6



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality	Control Commiss	ion Groundwater	Standard	
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-4	7/28/98	<0.001	<0.001	<0.001	<0.001	94
MW-4	2/16/01	<0.005	<0.005	<0.005	0.008	170
MW-4	6/12/02	<0.005	<0.005	<0.005	<0.005	85.6
MW-4	11/26/03	0.002	<0.001	<0.001	<0.005	160
MW-4	6/6/03	<0.001	<0.001	<0.001	0.0026	111
MW-4	12/4/03	0.0015	<0.001	<0.001	<0.001	104
MW-4	7/2/04	<0.001	<0.001	<0.001	<0.001	72.4
MW-4	12/21/04	<0.005	<0.005	<0.005	<0.005	59.7
MW-4	6/6/05	<0.001	<0.001	<0.001	<0.001	58.4
MW-4	12/13/05	<0.005	<0.005	<0.005	<0.010	55.3
MW-4	6/27/06	0.000597	<0.0005	<0.0005	<0.001	48.8
MW-4	12/19/06	<0.005	<0.005	<0.005	<0.001	34
MW-4	6/27/07	<0.005	<0.005	<0.005	<0.010	39
MW-4	12/13/07	0.000968	<0.000500	<0.000500	0.00254	63.1
MW-4	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	61
MW-4	11/14/08	<0.00037	<0.00039	< 0.00042	<0.00035	52
MW-4	6/16/09	<0.00037	< 0.00039	<0.00042	<0.00035	59
MW-4	11/20/09	<0.00037	< 0.00039	<0.00042	<0.00035	58
MW-4	7/1/10	0.00032J	<0.00020	<0.00020	<0.00070	54.5
MW-4	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	57.5
DUP	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	58.4
MW-4	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	49.8
MW-4	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	142
MW-4	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	73.7
MW-4	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	69.3
MW-4	6/14/13	<0.001	<0.002	<0.001	<0.001	59.5
MW-4	11/27/13	<0.001	<0.002	<0.001	<0.001	65.1
MW-4	8/1/14	<0.001	<0.002	<0.001	< 0.003	71.8
MW-4	12/12/14	<0.001	<0.002	<0.001	< 0.003	104
MW-4	6/9/15	<0.0001	<0.0001	<0.0001	< 0.0003	98.5
MW-4	12/9/15	<0.0001	<0.0001	<0.0001	< 0.0003	70.6
MW-4	6/21/16	<0.002	<0.002	<0.002	<0.002	60.9
MW-4	12/8/16	<0.002	<0.002	<0.002	<0.002	86.2
MW-4	6/14/17	<0.002	<0.002	<0.002	<0.002	86.4
MW-4	11/29/17	<0.002	<0.002	<0.002	<0.002	81.7
MW-4	6/14/18	<0.002	<0.002	<0.002	<0.002	96.4
MW-4	12/13/18	<0.002	<0.002	< 0.002	<0.002	77.6
MW-4	5/6/19	< 0.002	< 0.002	< 0.002	<0.002	54.6
MW-4	11/19/19	< 0.0010	< 0.0010	<0.0010	<0.002	99
MW-4	6/23/20	< 0.00018	<0.00020	<0.00021	< 0.00037	130
MW-4	5/19/21	0.000206 J	< 0.000412	<0.000160	<0.000510	77.4
MW-4	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	84.8



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality (Control Commiss	sion Groundwater	Standard	
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250²
MW-5	7/28/98	<0.001	<0.001	<0.001	<0.001	360
MW-5	2/16/01	<0.005	<0.005	<0.005	<0.005	120
MW-5	6/12/02	<0.005	<0.005	<0.005	<0.005	90.2
MW-5	11/26/03	0.002	<0.001	0.003	<0.002	59.1
MW-5	6/6/03	<0.001	<0.001	<0.001	<0.001	48.6
MW-5	12/4/03	<0.001	<0.001	<0.001	<0.001	36.5
MW-5	7/2/04	<0.005	<0.005	<0.005	<0.005	32.9
MW-5	12/21/04	<0.005	<0.005	<0.005	<0.005	39.8
MW-5	6/6/05	<0.001	<0.001	<0.001	<0.001	41.1
MW-5	12/13/05	<0.005	<0.005	<0.005	<0.010	39.7
MW-5	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	43.2
MW-5	12/19/06	<0.005	<0.005	<0.005	<0.001	51
MW-5	6/27/07	<0.005	<0.005	<0.005	<0.001	67
MW-5	12/14/07	<0.005	<0.005	<0.005	<0.001	101
MW-5	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	78.7
MW-5	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	100
MW-5	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	140
MW-5	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	110
MW-5	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	115
MW-5	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	168
MW-5	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	134
MW-5	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	172
MW-5	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	137
MW-5	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	110
MW-5	6/14/13	<0.001	<0.002	<0.001	<0.001	66.6
MW-5	11/27/13	<0.001	<0.002	<0.001	<0.001	72.3
MW-5	8/1/14	<0.001	<0.002	<0.001	<0.003	69.5
MW-5	12/12/14	<0.001	<0.002	<0.001	<0.003	66.9
MW-5	6/9/15	<0.001	<0.002	<0.001	<0.003	69.1
MW-5	12/9/15	<0.001	<0.002	< 0.001	<0.003	44
MW-5	6/21/16	<0.002	<0.002	<0.002	<0.002	39.9
MW-5	12/8/16	<0.002	<0.002	< 0.002	<0.002	39.1
MW-5	6/14/17	<0.002	<0.002	<0.002	<0.002	42.1
MW-5	11/29/17	< 0.002	< 0.002	< 0.002	<0.002	35.6
MW-5	6/14/18	< 0.002	< 0.002	<0.002	<0.002	37.6
MW-5	12/13/18	< 0.002	< 0.002	< 0.002	<0.002	37.4
MW-5	5/6/19	<0.002	<0.002	< 0.002	<0.002	114.0
MW-5	11/19/19	< 0.0010	<0.0010	< 0.0010	< 0.002	49.0
MW-5	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	80
MW-5	5/19/21	<0.000190	<0.000412	< 0.000160	<0.000510	60 07
MW-5 MW-5	11/4/21	0.000199 B J	<0.000412	<0.000160	<0.000510	67 72 5
	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	73.5
MW-5	11/18/22	<0.000190	<0.000412	0.000287 B J	<0.000510	80.4


Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality	Control Commiss	ion Groundwater	Standard	
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-6	7/28/98	<0.001	<0.001	<0.001	<0.001	43.0
MW-6	2/16/01	<0.005	<0.005	0.006	0.006	52
MW-6	6/12/02	<0.001	<0.001	<0.001	<0.001	54.1
MW-6	11/26/03	<0.001	<0.001	<0.001	<0.002	65
MW-6	6/6/03	<0.001	<0.001	<0.001	<0.001	43.7
MW-6	12/4/03	<0.001	<0.001	<0.001	<0.001	45.3
MW-6	7/2/04	<0.001	<0.001	<0.001	<0.001	57.5
MW-6	12/21/04	<0.005	<0.005	<0.005	<0.005	61.3
MW-6	6/6/05	<0.001	<0.001	<0.001	<0.001	66.7
MW-6	12/13/05	<0.005	<0.005	<0.005	<0.010	80.9
MW-6	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	86.4
MW-6	12/19/06	<0.005	<0.005	<0.005	<0.001	88
MW-6	3/16/07	<0.0005	<0.0005	<0.0005	<0.001	92.2
MW-6	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	110
MW-6	9/27/07	<0.0005	<0.0005	<0.0005	<0.001	99.5
MW-6	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	99.2
MW-6	3/6/08	<0.00037	< 0.00039	<0.00042	<0.00035	88.8
MW-6	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	117
MW-6	9/4/08	<0.00037	< 0.00039	<0.00042	<0.00035	130
MW-6	11/14/08	<0.00037	< 0.00039	<0.00042	<0.00035	130
MW-6	3/5/09	<0.00037	< 0.00039	<0.00042	<0.00035	140
MW-6	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	160
MW-6	9/9/09	<0.00037	<0.00039	<0.00042	<0.00035	160
MW-6	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	140
MW-6	3/23/10	<0.0002	<0.0002	<0.0002	<0.0007	169
MW-6	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	161
DUP	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	169
MW-6	9/22/10	0.00033J	<0.0001	<0.0001	<0.0003	157
MW-6	11/9/10	<0.0001	<0.0001	0.0010	<0.0003	182
MW-6	3/3/11	<0.0001	<0.0001	<0.0001	<0.0003	225
MW-6	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	215
DUP	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	221
MW-6	9/27/11	<0.0001	<0.0001	<0.0001	<0.0003	222
MW-6	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	198
MW-6	3/7/12	<0.0001	<0.0001	<0.0001	<0.0001	189
MW-6	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	259
DUP	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	260
MW-6	9/20/12	<0.0001	<0.0001	<0.0001	<0.0001	221
MW-6	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	176
MW-6	3/14/13	<0.001	<0.002	<0.001	<0.001	195



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality	Control Commiss	sion Groundwate	Standard	
		0.005 ¹	1.0 ¹	0.71	0.62 ¹	250²
MW-6	6/14/13	<0.001	<0.002	<0.001	<0.001	219
MW-6	9/13/13	<0.001	<0.002	<0.001	<0.001	209
MW-6	11/27/13	<0.001	<0.002	<0.001	<0.001	220
MW-6	3/21/14	<0.001	<0.002	<0.001	<0.003	231
MW-6	8/1/14	<0.001	<0.002	<0.001	<0.003	220
MW-6	9/22/14	<0.001	<0.002	<0.001	<0.003	186
MW-6	12/12/14	<0.001	<0.002	<0.001	<0.003	217
MW-6	3/31/15	<0.001	<0.002	<0.001	<0.003	201
MW-6	6/9/15	<0.001	<0.002	<0.001	<0.003	209
MW-6	9/16/15	<0.001	<0.002	<0.001	<0.003	212
MW-6	12/9/15	<0.001	<0.002	<0.001	<0.003	175
MW-6	3/7/16	<0.001	<0.002	<0.001	<0.001	218
MW-6	6/21/16	<0.002	<0.002	<0.002	<0.002	201
MW-6	8/31/16	<0.002	<0.002	<0.002	<0.002	222
MW-6	12/8/16	<0.002	<0.002	<0.002	<0.002	190
MW-6	3/9/17	<0.002	<0.002	<0.002	<0.002	182
MW-6	6/14/17	<0.002	<0.002	<0.002	<0.002	168
MW-6	9/5/17	<0.002	<0.002	<0.002	<0.002	151
MW-6	11/29/17	<0.002	<0.002	<0.002	<0.002	124
MW-6	3/22/18	<0.002	<0.002	<0.002	<0.002	127
MW-6	6/14/18	<0.002	<0.002	<0.002	<0.002	110
MW-6	9/6/18	<0.002	<0.002	<0.002	<0.002	106
MW-6	12/14/18	<0.002	<0.002	<0.002	<0.002	78.7
MW-6	2/7/19	<0.002	<0.002	<0.002	<0.002	100.0
MW-6	5/6/19	<0.002	<0.002	<0.002	<0.002	108.0
MW-6	8/2/19	<0.002	<0.002	<0.002	<0.002	112.0
DUP	8/2/19	<0.002	<0.002	<0.002	<0.002	115.0
MW-6	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	80.0
MW-6	3/27/20	<0.00018	<0.00020	<0.00021	<0.00037	80 F1
MW-6	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	110 F1
MW-6	8/21/20	<0.00018	<0.00020	<0.00021	<0.00037	110.0
MW-6	11/11/20	<0.00018	<0.00020	<0.00021	<0.00037	91 H
MW-6	3/16/21	<0.000190	<0.000412	<0.000160	<0.000510	73.8
MW-6	5/19/21	<0.000190	<0.000412	<0.000160	<0.000510	77.4
MW-6	7/19/21	<0.000190	<0.000412	<0.000160	<0.000510	75.4
MW-6	11/4/21	0.000288 BJ	<0.000412	<0.000160	<0.000510	87.6
MW-6	3/8/22	<0.000190	<0.000412	<0.000160	<0.000510	82.3
MW-6	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	68.4
MW-6	8/15/22	<0.000190	<0.000412	<0.000160	<0.000510	75.6
MW-6	11/18/22	<0.000190	<0.000412	0.000286 B J	<0.000510	73.8
MW-7	7/28/98	<0.001	<0.001	<0.001	<0.001	82
MW-7	2/16/01	<0.005	<0.005	<0.005	<0.005	150
MW-7	6/12/02	<0.005	<0.005	<0.005	<0.005	96.7
MW-7	11/26/03	<0.001	<0.001	<0.001	<0.002	133
MW-7	6/6/03	<0.001	<0.001	<0.001	<0.001	199
MW-7	12/4/03	<0.001	<0.001	<0.001	<0.001	230
MW-7	7/2/04	<0.001	<0.001	<0.001	<0.001	215
MW-7	12/21/04	<0.005	<0.005	<0.005	<0.005	274
MW-7	6/6/05	<0.001	<0.001	<0.001	<0.001	221
MW-7	12/13/05	<0.005	<0.005	<0.005	<0.010	204
MW-7	6/27/06	< 0.0005	<0.0005	<0.0005	<0.001	158
MW-7	12/19/06	<0.005	<0.005	<0.005	<0.001	130
MW-7	6/27/07	< 0.0005	<0.0005	<0.0005	<0.001	110
MW-7	12/13/07	<0.0005	<0.0005	<0.0005	<0.001	135
MW-7	6/5/08	<0.00037	<0.00039	<0.00042	<0.00035	72.4



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality	Control Commiss	ion Groundwate	r Standard	
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
MW-7	11/14/08	< 0.00037	< 0.00039	<0.00042	< 0.00035	66
MW-7	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	58
MW-7	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	47
MW-7	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	51.2
MW-7	11/9/10	<0.0001	<0.0001	<0.0001	< 0.0003	67.1
MW-7	6/2/11	<0.0001	<0.0001	<0.0001	< 0.0003	69.4
MW-7	12/2/11	<0.0001	<0.0001	<0.0001	< 0.0003	76.6
MW-7	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	91.5
MW-7	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	67.7
MW-7	6/14/13	<0.001	<0.002	<0.001	<0.001	56.4
MW-7	11/27/13	<0.001	<0.002	<0.001	<0.001	78.1
MW-7	8/1/14	<0.001	<0.002	<0.001	<0.003	68.3
MW-7	12/12/14	<0.001	<0.002	<0.001	<0.003	122
MW-7	6/9/15	<0.001	<0.002	<0.001	<0.003	79.2
MW-7	12/9/15	<0.001	<0.002	<0.001	<0.003	94
MW-7	6/21/16	<0.002	<0.002	<0.002	<0.002	52.3
MW-7	12/8/16	<0.002	<0.002	<0.002	<0.002	69.0
MW-7	6/14/17	<0.002	<0.002	<0.002	<0.002	68.6
MW-7	11/29/17	<0.002	<0.002	<0.002	<0.002	62.6
MW-7	6/14/18	<0.002	<0.002	<0.002	<0.002	58.5
MW-7	12/13/18	<0.002	<0.002	<0.002	<0.002	49.9
MW-7	5/6/19	<0.002	<0.002	<0.002	<0.002	58.7
MW-7	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	50.0
MW-7	6/23/20	<0.00018	<0.00020	0.00034 J	<0.00037	61
MW-7	5/19/21	<0.000190	<0.000412	<0.000160	<0.000510	48
Dup	5/19/21	<0.000190	<0.000412	<0.000160	<0.000510	48
MW-7	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	62.5
MW-8	7/28/98	<0.001	<0.001	<0.001	<0.001	29
MW-8	2/16/01	<0.005	<0.005	<0.005	<0.005	94
MW-8	6/12/02	<0.005	<0.005	<0.005	<0.005	180
MW-8	11/26/03	<0.001	<0.001	<0.001	<0.002	239
MW-8	6/6/03	<0.001	<0.001	<0.001	<0.001	244
MW-8	12/4/03	<0.001	<0.001	<0.001	<0.001	251
MW-8	7/2/04	<0.005	<0.005	<0.005	<0.005	206
MW-8	12/21/04	<0.005	<0.005	<0.005	<0.005	244
MW-8	6/6/05	<0.0001	<0.0001	<0.0001	<0.0001	227
MW-8	12/13/05	<0.005	<0.005	<0.005	<0.010	144
MW-8	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	92.6
MW-8	12/19/06	<0.005	<0.005	<0.005	<0.001	83.0
MW-8	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	79
MW-8	12/13/07	<0.0005	<0.0005	<0.0005	<0.001	82.9
MW-8	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	54.9
MW-8	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	47
MW-8	6/16/09	<0.00037	<0.00039	<0.00042	<0.00035	45



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality 0	Control Commiss	sion Groundwater	Standard	
		0.005 ¹	1.0 ¹	0.71	0.621	250 ²
MW-8	11/20/09	<0.00037	< 0.00039	<0.00042	<0.00035	36
MW-8	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	38.4
MW-8	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	47.6
MW-8	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	51.8
MW-8	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	72.7
MW-8	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	95.7
MW-8	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	77.6
MW-8	6/14/13	<0.001	<0.002	<0.001	<0.001	83.3
DUP	6/14/13	<0.001	<0.002	<0.001	<0.001	84.3
MW-8	11/27/13	<0.001	<0.002	<0.001	<0.001	72.2
DUP	11/27/13	<0.001	<0.002	<0.001	<0.001	71.3
MW-8	8/1/14	<0.001	<0.002	<0.001	<0.003	63.2
MW-8	12/12/14	<0.001	<0.002	<0.001	<0.003	82.8
MW-8	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	79.8
DUP	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	84.6
MW-8	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	69.9
DUP	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	68.0
MW-8	6/21/16	<0.002	<0.002	<0.002	<0.002	74.4
DUP	6/21/16	<0.002	<0.002	<0.002	<0.002	68.0
MW-8	12/8/16	<0.002	<0.002	<0.002	<0.002	71.4
DUP	12/8/16	<0.002	<0.002	<0.002	<0.002	72.2
MW-8	6/14/17	<0.002	<0.002	<0.002	<0.002	67.1
DUP	6/14/17	<0.002	<0.002	<0.002	<0.002	63.8
MW-8	11/29/17	<0.002	<0.002	<0.002	<0.002	58.7
MW-8	6/14/18	<0.002	<0.002	<0.002	<0.002	68.0
DUP	6/14/18	<0.002	<0.002	<0.002	<0.002	67.9
MW-8	12/13/18	<0.002	<0.002	<0.002	<0.002	62.6
DUP	12/13/18	<0.002	<0.002	<0.002	<0.002	61.5
MW-8	5/6/19	<0.002	<0.002	<0.002	<0.002	102.0
MW-8	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	65.0
MW-8	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	89.0
MW-8	5/19/21	<0.000190	<0.000412	<0.000160	<0.000510	46.9
MW-8	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	51.6
MW-9R	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	145
MW-9R	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	119
MW-9R	6/21/16	<0.002	<0.002	<0.002	<0.002	109
MW-9R	12/8/16	<0.002	<0.002	<0.002	<0.002	120
MW-9R	6/14/17	<0.002	<0.002	<0.002	<0.002	115
MW-9R	11/29/17	<0.002	<0.002	<0.002	<0.002	98
MW-9R	6/15/18	<0.002	<0.002	<0.002	<0.002	92.2
MW-9R	12/13/18	<0.002	<0.002	<0.002	<0.002	84.0
MW-9R	5/6/19	<0.002	<0.002	<0.002	<0.002	94.1
MW-9R	11/19/19	<0.0010	<0.0010	<0.0010	<0.002	110.0
MW-9R	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	170
DUP	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	160
MW-9R	5/19/21	<0.000190	<0.000412	<0.000160	<0.000510	104
MW-9R	11/4/21	0.000274 B J	<0.000412	<0.000160	<0.000510	110
MW-9R	6/8/22	<0.000190	<0.000412	<0.000160	<0.000510	104
MW-9R	11/18/22	<0.000190	<0.000412	0.000288 B J	<0.000510	97.0



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality (Control Commiss	ion Groundwater	Standard	
		0.0051	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
WW-1	7/28/98	<0.001	<0.001	<0.001	<0.001	100
WW-1	6/12/02	<0.001	<0.001	<0.001	<0.001	43.6
WW-1	11/26/02	<0.001	<0.001	<0.001	<0.002	80
WW-1	6/6/03	<0.001	<0.001	<0.001	<0.001	73.4
WW-1	12/4/03	<0.001	<0.001	<0.001	<0.001	65.3
WW-1	7/2/04	<0.001	<0.001	<0.001	<0.001	66.5
WW-1	12/21/04	<0.005	<0.005	<0.005	<0.005	74.3
WW-1	6/6/05	<0.0001	<0.0001	<0.0001	<0.0001	63.4
WW-1	12/13/05	<0.005	<0.005	<0.005	<0.010	41.1
WW-1	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	50
WW-1	12/19/06	<0.005	<0.005	<0.005	<0.001	80.0
WW-1	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	52
WW-1	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	59.8
WW-1	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	64.1
DUP	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	64.4
WW-1	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	73
WW-1	6/17/09	<0.00037	<0.00039	<0.00042	<0.00035	60
WW-1	11/20/09	<0.00037	<0.00039	<0.00042	<0.00035	64
WW-1	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	41
WW-1	11/9/10	<0.0001	<0.0001	<0.0001	<0.0003	77
WW-1	6/2/11	<0.0001	<0.0001	<0.0001	<0.0003	73.6
WW-1	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	50.2
WW-1	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	90
WW-1	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	69.9
WW-1	6/14/13	<0.001	<0.002	<0.001	<0.001	53.7
WW-1	11/27/13			not sampled		
WW-1	8/1/14	<0.001	<0.002	<0.001	<0.003	56.4
WW-1	12/12/14	<0.001	<0.002	<0.001	<0.003	71.6
WW-1	6/9/15	<0.0001	<0.0001	<0.0001	<0.0003	64.8
WW-1	12/9/15	<0.0001	<0.0001	<0.0001	<0.0003	45
WW-1	6/21/16	<0.002	<0.002	<0.002	<0.002	37.0
WW-1	12/8/16	<0.002	<0.002	<0.002	<0.002	42.1
WW-1	6/14/17	<0.002	<0.002	<0.002	<0.002	34.0
WW-1	11/29/17	<0.002	0.0559	0.225	0.0411	49.4
DUP	11/29/17	<0.002	0.059	0.241	0.0456	49.0
WW-1	12/21/17	<0.002	<0.002	<0.002	<0.002	
WW-1	6/15/18	<0.002	<0.002	<0.002	<0.002	42.6
WW-1	12/18/18	<0.002	<0.002	<0.002	<0.002	45.3
WW-1	5/6/19	<0.002	<0.002	<0.002	<0.002	60.4
DUP	5/6/19	<0.002	<0.002	<0.002	<0.002	55.5
WW-1	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	84



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
	New Mexic	o Water Quality	Control Commiss	ion Groundwater	r Standard	
		0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²
WW-2	6/12/02	<0.001	<0.001	<0.001	<0.001	53.7
WW-2	11/26/02	<0.001	<0.001	<0.001	<0.002	70.9
WW-2	6/6/03	<0.001	<0.001	<0.001	<0.001	71.1
WW-2	12/4/03	<0.001	<0.001	<0.001	<0.001	52.4
WW-2	7/2/04	<0.001	<0.001	<0.001	<0.001	51.0
WW-2	12/21/04	<0.005	<0.005	<0.005	<0.005	55.6
WW-2	6/6/05	<0.001	<0.001	<0.001	<0.001	55.3
WW-2	12/13/05	<0.005	<0.005	<0.005	<0.010	75.3
WW-2	6/27/06	<0.0005	<0.0005	<0.0005	<0.001	69.7
WW-2	12/19/06	<0.005	<0.005	<0.005	<0.001	57.0
WW-2	6/27/07	<0.0005	<0.0005	<0.0005	<0.001	46
WW-2	12/14/07	<0.0005	<0.0005	<0.0005	<0.001	83.1
WW-2	6/4/08	<0.00037	<0.00039	<0.00042	<0.00035	65.9
WW-2	11/14/08	<0.00037	<0.00039	<0.00042	<0.00035	73
WW-2	6/17/09	<0.00037	<0.00039	<0.00042	<0.00035	60
WW-2	11/20/09			not sampled		
WW-2	7/1/10	<0.0002	<0.0002	<0.0002	<0.0007	66.3
WW-2	11/9/10	<0.0001	<0.0001	<0.0001	< 0.0003	77.2
WW-2	6/2/11	<0.0001	<0.0001	<0.0001	< 0.0003	74.9
WW-2	12/2/11	<0.0001	<0.0001	<0.0001	<0.0003	76.5
WW-2	6/26/12	<0.0001	<0.0001	<0.0001	<0.0001	63.1
WW-2	11/26/12	<0.0001	<0.0001	<0.0001	<0.0001	50.3
WW-2	6/14/13	<0.001	<0.002	<0.001	<0.001	81.1
WW-2	11/27/13			not sampled		
WW-2	8/1/14	<0.001	<0.002	<0.001	<0.003	95.5
WW-2	12/12/14	<0.001	<0.002	<0.001	<0.003	112
WW-2	6/9/15	<0.001	<0.002	<0.001	<0.003	108
WW-2	12/9/15	<0.001	<0.002	<0.001	< 0.003	45.8
WW-2	6/21/16	<0.002	<0.002	<0.002	<0.002	28.9
WW-2	12/8/16	<0.002	<0.002	<0.002	<0.002	39.1
WW-2	6/14/17	<0.002	<0.002	<0.002	<0.002	29.8
WW-2	11/29/17	<0.002	<0.002	<0.002	<0.002	39.8
WW-2	6/13/18			not sampled		
WW-2	12/14/18	<0.002	0.00715	<0.0020	0.0828	45.9
WW-2	2/7/19	<0.002	<0.002	<0.002	<0.002	41.5
WW-2	5/6/19	<0.002	<0.002	<0.002	<0.002	97.5
RW-1	6/5/08	0.0119	<0.0039	<0.0042	<0.0035	36.2
RW-1	6/17/09	0.012	0.0055	0.0018	0.012	49
RW-1	7/1/10	0.022	0.00070J	0.0027	0.017	41.1
RW-1	6/26/12	0.0113	<0.00100	0.00514	0.0350	44.1
RW-1	6/27/13	0.00745	0.00963	0.0101	0.0549	33.8
RW-1	8/1/14	0.0172	0.00226	0.00499	0.0237	36.2



Sample ID	Sample Date	Benzene	Toluene	Ethylbonzono	Total Xylenes	Chloride
						onionae
	New Mexic	-		sion Groundwater		
		0.0051	1.0 ¹	0.71	0.621	250 ²
RW-1	6/9/15	0.0109	<0.00200	0.00373	0.0182	43.7
RW-1	12/9/15			not sampled		
RW-1	6/21/16			not sampled		
RW-1	12/8/16	0.0137	<0.002	<0.002	0.0089	74.9
RW-1	6/14/17			not sampled		
RW-1	11/29/17	0.0148	<0.002	0.00372	0.0108	101
RW-1 RW-1	6/14/18 12/14/18	<0.002	0.00363	not sampled <0.002	0.0137	131
RW-1	5/6/19	<0.002	1	LNAPL Present	0.0137	151
RW-1	11/19/19			LNAPL Present		
RW-1	6/23/20	-		LNAPL Present		
RW-1	11/11/20	-		LNAPL Present		
RW-1	5/19/21	-		- LNAPL Present		
RW-1	11/4/21	-		LNAPL Present		
RW-1	6/8/22	-		- LNAPL Present		
RW-1	11/18/22	-		LNAPL Present		
RW-2	6/27/07	0.00287	<0.0025	<0.0025	0.0303	60
RW-2	6/5/08	<0.0037	<0.0039	<0.0042	<0.0035	51.1
RW-2	6/17/09	<0.00037	0.0046	<0.00042	0.016	44
RW-2	7/1/10	0.0016	<0.0002	<0.0002	0.0067	30.1
RW-2	6/26/12	<0.00100	<0.001	<0.001	0.00362	43.9
RW-2	6/14/13	0.00178	0.00268	0.00171	0.0262	30
RW-2	8/1/14	0.00103	0.00106	<0.001	0.00788	41
RW-2	12/12/14	0.00154	<0.002	<0.001	0.00348	52.7
RW-2	6/9/15	0.00112	<0.002	<0.001	<0.003	49.5
RW-2	12/9/15	<0.00100	<0.002	0.00102	0.00725	48
RW-2	6/21/16	<0.002	<0.002	<0.002	<0.002	44
RW-2	12/8/16	<0.002	<0.002	<0.002	<0.002	55.8
RW-2	6/14/17	0.00408	0.00219	<0.002	<0.002	62.3
RW-2	11/29/17	<0.002	<0.002	<0.002	<0.002	65.0
RW-2	6/15/18	0.00306	<0.002	<0.002	<0.002	72.4
RW-2	12/14/18	<0.002	<0.002	<0.002	0.00215	73.4
RW-2	5/6/19			not sampled		
RW-2	11/19/19			not sampled		
RW-2	6/23/20	<0.00018	<0.00020	<0.00021	<0.00037	120 F1
RW-2	11/11/20	0.00038 J	<0.00020	<0.00021	<0.00037	93 H
RW-2	5/19/21	-		LNAPL Present		
RW-2	11/4/21	-		LNAPL Present		
RW-2	6/8/22	-		LNAPL Present		
RW-2	11/18/22	-		- LNAPL Present		
RW-3	6/11/02	<0.005	<0.005	<0.005	<0.005	25.9
RW-3	12/3/04	<0.001	<0.001	<0.001	<0.001	36.6
RW-3	6/27/07	0.00855	<0.0025	0.0122	0.027	130
RW-3	6/5/08	< 0.0037	< 0.0039	< 0.0042	0.0129	90.6
RW-3	6/17/09	0.0052	0.0042	0.011	0.025	74
RW-3	11/20/09	<0.00037	0.001	0.0027	0.0076	60
DUP	11/20/09	< 0.00037	0.0013	0.003	0.008	60
RW-3	7/1/10	0.0065	< 0.0002	0.0066	0.003	68.3
RW-3	6/26/12	0.00682	< 0.001	< 0.001	< 0.001	55.4
RW-3	6/14/13	0.0092	0.0291	0.0253	0.138	37.3
RW-3 RW-3	8/1/14 12/12/14	0.00709	<0.002	<0.001	0.132 0.00691	41.5
RW-3 RW-3		0.00588	<0.002	<0.001		47.7 40
RW-3 RW-3	6/9/15 12/9/15	0.00512 0.00432	<0.002 <0.002	<0.001 <0.001	0.00309 <0.003	40 39
RW-3	6/21/16	0.00408	<0.002	<0.002	<0.002	36.3



Appendix E

Cumulative Groundwater Analytical Data Chevron Environmental Management Company Former New Mexico "F" State Tank Battery Lea County, New Mexico

New Mexico Water Quality Control Commission Groundwater Standard 0.005' 1.0' 0.7' 0.62' 250' RW-3 12/8/16 0.00574 <0.002 <0.002 0.00265 45.3 RW-3 6/14/17 0.00850 <0.002 <0.002 <0.002 43.4 RW-3 11/29/17 0.00563 <0.002 <0.002 <0.002 43.4 RW-3 6/15/18 <0.002 <0.002 <0.002 <0.002 43.1 RW-3 6/15/18 <0.002 <0.002 <0.002 <0.002 55.4 RW-3 12/14/18 0.00262 <0.002 <0.002 0.00322 55.4 RW-3 5/6/19								
0.005' 1.0' 0.7' 0.62' 250' RW-3 12/8/16 0.00574 <0.002 <0.002 0.00265 45.3 RW-3 6/14/17 0.00850 <0.002 <0.002 <0.002 43.4 RW-3 11/29/17 0.00563 <0.002 <0.002 <0.002 49.1 RW-3 6/15/18 <0.002 <0.002 <0.002 <0.002 53.1 RW-3 12/14/18 0.00262 <0.002 <0.002 0.00322 55.4 RW-3 5/6/19	Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride	
RW-3 12/8/16 0.00574 <0.002		New Mexic	o Water Quality	Control Commiss	sion Groundwater	r Standard		
RW-3 6/14/17 0.00850 <0.002			0.005 ¹	1.0 ¹	0.7 ¹	0.62 ¹	250 ²	
RW-3 11/29/17 0.00563 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.002 <0.00322 <0.00322 <0.0032 <0.0032 <0.0032 <0.0032 <0.0032 <0.002 <0.002 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0021 <0.0020 <0.0020 <0.0021 <0.0020 <0.0021 <0.0020 <0.0021 <0.0020 <0.0021 <0.0020 <0.0021 <0.0020 <0.0032 <0.0021 <0.0020 <0.0023 <0.0021 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <0.0020 <td>RW-3</td> <th>12/8/16</th> <td>0.00574</td> <td><0.002</td> <td><0.002</td> <td>0.00265</td> <td>45.3</td> <td></td>	RW-3	12/8/16	0.00574	<0.002	<0.002	0.00265	45.3	
RW-3 6/15/18 <0.002 <0.002 <0.002 <0.002 53.1 RW-3 12/14/18 0.00262 <0.002	RW-3	6/14/17	0.00850	<0.002	<0.002	<0.002	43.4	
RW-3 12/14/18 0.00262 <0.002 <0.002 0.00322 55.4 RW-3 5/6/19	RW-3	11/29/17	0.00563	<0.002	<0.002	<0.002	49.1	
RW-3 5/6/19	RW-3	6/15/18	<0.002	<0.002	<0.002	<0.002	53.1	
RW-3 11/19/19	RW-3	12/14/18	0.00262	<0.002	<0.002	0.00322	55.4	
RW-3 6/23/20 <0.00018 <0.00020 <0.00021 0.0020 100 RW-3 11/11/20 0.00025 J <0.00020	RW-3	5/6/19			not sampled			
RW-3 11/11/20 0.00025 J <0.00020 0.00032 J 0.0034 68 H RW-3 5/19/21	RW-3	11/19/19			not sampled			
RW-3 5/19/21	RW-3	6/23/20	<0.00018	<0.00020	<0.00021	0.0020	100	
RW-3 11/4/21	RW-3	11/11/20	0.00025 J	<0.00020	0.00032 J	0.0034	68 H	
RW-3 6/8/22 LNAPL Present RW-3 11/18/22	RW-3	5/19/21	-		LNAPL Present			
RW-3 11/18/22 LNAPL Present RW-4 6/26/12 0.00221 <0.001	RW-3	11/4/21	-		LNAPL Present			
RW-4 6/26/12 0.00221 <0.001 0.00410 0.0188 65.1 RW-4 6/27/13 0.0245 0.0396 0.0779 0.196 43.1 RW-4 8/1/14 0.0155 0.00107 0.00766 0.0286 34.2 RW-4 6/9/15 0.0127 <0.002	RW-3	6/8/22	-		LNAPL Present			
RW-4 6/27/13 0.0245 0.0396 0.0779 0.196 43.1 RW-4 8/1/14 0.0155 0.00107 0.00766 0.0286 34.2 RW-4 6/9/15 0.0127 <0.002	RW-3	11/18/22	-	· · · · · · · · · · · · · · · · · · ·	LNAPL Present			
RW-4 8/1/14 0.0155 0.00107 0.00766 0.0286 34.2 RW-4 6/9/15 0.0127 <0.002	RW-4	6/26/12	0.00221	<0.001	0.00410	0.0188	65.1	
RW-4 6/9/15 0.0127 <0.002 0.00752 0.030 39.5 RW-4 12/9/15	RW-4	6/27/13	0.0245	0.0396	0.0779	0.196	43.1	
RW-4 12/9/15	RW-4	8/1/14	0.0155	0.00107	0.00766	0.0286	34.2	
RW-4 6/21/16	RW-4	6/9/15	0.0127	<0.002	0.00752	0.030	39.5	
RW-4 12/8/16 0.0139 <0.002 0.00758 0.03070 45.7	RW-4	12/9/15			not sampled			
	RW-4	6/21/16			not sampled			
	RW-4	12/8/16	0.0139	<0.002	0.00758	0.03070	45.7	
RW-4 6/14/17 not sampled	RW-4	6/14/17			not sampled			
RW-4 11/29/17 0.0268 0.00761 0.03040 0.1310 48.9	RW-4	11/29/17	0.0268	0.00761	0.03040	0.1310	48.9	
RW-4 6/14/18 LNAPL Present	RW-4	6/14/18	-		LNAPL Present			
RW-4 12/14/18 LNAPL Present	RW-4	12/14/18	-		LNAPL Present			
RW-4 5/6/19 LNAPL Present	RW-4	5/6/19	-		LNAPL Present			
RW-4 11/19/19 LNAPL Present	RW-4	11/19/19	-		LNAPL Present			
RW-4 6/23/20 LNAPL Present	RW-4	6/23/20	-		LNAPL Present			
RW-4 11/11/20 LNAPL Present	RW-4	11/11/20	-		LNAPL Present			
RW-4 5/19/21 LNAPL Present	RW-4	5/19/21	-		LNAPL Present			
RW-4 11/4/21 LNAPL Present	RW-4	11/4/21	-		LNAPL Present			
RW-4 6/8/22 LNAPL Present	RW-4	6/8/22	-		LNAPL Present			
RW-4 11/18/22 LNAPL Present	RW-4	11/18/22	-		LNAPL Present			

Notes:

Results shown in mg/L.

Data through June 6, 2005 provided by Larson & Associates, Inc.

Bold indicates results exceed New Mexico Water Quality Control Commission (NMWQCC).

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

H = Sample was prepped or analyzed beyond the specified holding time

F1 = MS and/or MSD recovery exceeds control limits.

¹Human Health Standards for Groundwater.

²Other Standards for Domestic Water Supply.

 $^3\text{RW-1}$ and RW-4 were sampled by dropping a disposable PVC bailer below the level of LNAPL.

⁴MW-9R was installed May 19, 2015.

⁵ Sample was analyzed as a solid instead of a water due to oily nature of sample and results are in mg/kg.



Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
		LNAPL Analy	ytical Results		
RW-1 ¹	11/19/19	6	2.8	25	100
RW-4 ²	11/19/19	0.014J	0.005U	0.013J	0.049J

Notes:

¹Sample was analyzed as a solid instead of a water due to oily nature of sample. Results shown in mg/kg. ²Results shown in mg/L.

RW-1 and RW-4 LNAPL was sampled using a disposable PVC bailer.



Analytical Reports

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y hour	ICAL REPORT	
		3
Arcadis - Chevron -	NM	4
Sample Delivery Group:	L1469352	
Samples Received:	03/09/2022	5
Project Number:	30123982-0003	
Description:	NM F- State Tank Battery	6
Site:	NM F-STATE	7
Report To:	Andrew DeMarco	ļ
	1004 N Big Spring Street	8
	Suite 121	
	Midland, TX 79701	9

Entire Report Reviewed By: Chu, form

Chris McCord 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 where applicable, sampling conducted by Pace National Statement of the 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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PROJECT: 30123982-0003

SDG: L1469352

DATE/TIME: 03/14/22 21:13 PAGE: 1 of 12

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Wet Chemistry by Method 300.0	6
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DAT 03/14

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SAMPLE SUMMARY

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			Collected by	Collected date/time	e Received dat	e/time
MW-6-W-220308 L1469352-01 GW			Cory Rodriguez	03/08/22 11:54	03/09/22 13:0	00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 300.0	WG1829960	5	03/09/22 22:26	03/09/22 22:26	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1830795	1	03/12/22 17:38	03/12/22 17:38	DWR	Mt. Juliet, TN



Ср

DATE/TIME: 03/14/22 21:13 PAGE: 3 of 12

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord Project Manager



SDG: L1469352 DATE/TIME:

PAGE: 4 of 12

SAMPLE RESULTS - 01 L1469352

Gl

Â

Sc

Wet Chemistry by Method 300.0

	Result	Qualifier MD	L RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l	mg			date / time	—	2
Chloride	82.3	1.9	5.00	5	03/09/2022 22:26	WG1829960	ЪС

Volatile Organic Compounds (GC) by Method 8021B											
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch				
Analyte	mg/l		mg/l	mg/l		date / time		4	4 Cr		
Benzene	U		0.000190	0.000500	1	03/12/2022 17:38	WG1830795		CI		
Toluene	U		0.000412	0.00100	1	03/12/2022 17:38	WG1830795		5		
Ethylbenzene	U		0.000160	0.000500	1	03/12/2022 17:38	WG1830795		Sr		
Total Xylene	U		0.000510	0.00150	1	03/12/2022 17:38	WG1830795				
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125		03/12/2022 17:38	WG1830795	e	⁶ Qc		

Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1469352-01

Method Blank (MB)

(MB) R3768399-1 03/09/	22 14:08				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Chloride	U		0.379	1.00	

L1469357-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1469357-01 03/09/2	22 22:53 • (DUF	P) R3768399-3	3 03/09/2	2 23:33		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	2.66	2.36	1	12.0		20

L1469364-04 Original Sample (OS) • Duplicate (DUP)

(OS) L14	69364-04 03/10/2	22 01:34 • (DUF) R3768399-6	6 03/10/22	2 02:14			
		Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	JP RPD mits	
Analyte		mg/l	mg/l		%			
Chloride		11.0	11.4	1	3.48		,	

Laboratory Control Sample (LCS)

(LCS) R3768399-2 03/09	CS) R3768399-2 03/09/22 14:21										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier						
Analyte	mg/l	mg/l	%	%							
Chloride	40.0	40.4	101	90.0-110							

L1469357-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1469357-01 03/09/2	(OS) L1469357-01 03/09/22 22:53 • (MS) R3768399-4 03/09/22 23:46 • (MSD) R3768399-5 03/10/22 00:00												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Chloride	50.0	2.66	52.2	52.4	99.2	99.5	1	80.0-120			0.310	20	

L1469364-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1469364-04 03/10/2	S) L1469364-04 03/10/22 01:34 • (MS) R3768399-7 03/10/22 02:27												
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier						
Analyte	mg/l	mg/l	mg/l	%		%							
Chloride	50.0	11.0	61.7	101	1	80.0-120							

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PROJECT: 30123982-0003

SDG: L1469352

DATE/TIME: 03/14/22 21:13

PAGE: 6 of 12

Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

Тс

Volatile Organic Compounds (GC) by Method 8021B

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3769325-3 03/12/	/22 11:37			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125

Laboratory Control Sample (LCS)

(LCS) R3769325-1 03/12/22 09:50

(
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Benzene	0.0500	0.0525	105	77.0-122	
Toluene	0.0500	0.0515	103	80.0-121	
Ethylbenzene	0.0500	0.0557	111	80.0-123	
Total Xylene	0.150	0.162	108	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			100	79.0-125	

DATE/TIME: 03/14/22 21:13 PAGE: 7 of 12 [−]Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al

Sc

Τс

Ss

Cn

Sr

Qc

GI

AI

Sc

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

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
RDL Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

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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
Louisiana	AI30792	Tennessee ¹⁴	2006
Louisiana	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: L1469352

DA1 03/14 PAGE: 9 of 12 Received by OCD: 5/16/2023 1:26:01 PM

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Project Description: NM F- State Tank Battery	1	City/State Collected:			Please C PT MT			NoPr							Pace Terms and Cond	dgment and acceptance of itions found at: com/hubfs/pas-standard-
Phone: 432-687-5400	Client Project 30123982			Lab Project	# NM-NMFSTA	TE		125mlHDPE-NoPres								69352- 1206
Collected by (print):	Site/Facility ID			P.O. #			0	125m							Tabl Acctnum: CH	EVARCNM
Collected by (signature):	1.11	Lab MUST Be ay Five		Quote #			H-dm	(0.005)							Template: T1	
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Arcadis - Chevron - NM 1004 N Big Spring Street Suite 121 Midland TX 79701	4 N Big Spring Street 10 te 121 M Mand. TX 79701			Accounts Payable Pres 1004 N Big Spring Street Chk Suite 121 Midland, TX 79701												ų.) ACC [®] e Advancing science
Report to:		-	Email To:	ord@arcadis (cadis.com;douglas.jordan@arc			5		and party of						MT JU 12065 Lebanon Rd Md	JLIET, TN Junt Juliet, TN 37122
Scott Foord	- iperation	City/State	William.ioc	Please C			Pre								Submitting a sample vi constitutes acknowled Pace Terms and Condit	a this chain of custody gment and acceptance	
Project Description: NM F- State Tank Battery	an a	Collected:			PT MT			No.									tions round at: com/hubfs/pas-standar
Phone: 432-687-5400	Client Project 30123982		e eu E De	Lab Project	# NM-NMFSTA	TE		125mlHDPE-NoPres								SDG # [14	9352- 206
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Collected by (signature):	P. 14	(Lab MUST Be		Quote #			H-dn	(0.00E)							1	Template:T18	
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MW-6-W-220308 WW4 - NM F-Stat Bat	ung Ch	GW	1.73	3-8-2	2 1154	3	X	x									-0
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OT Other	mples returned UPSFedE			Tr	acking #				/					VOA Ze	ero Hea	olume sent: If Applicabl dspace:	/Y
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Chris McCord

From:	Jordan, Morgan <u><douglas.jordan@arcadis.com></douglas.jordan@arcadis.com></u>
Sent:	Friday, March 11, 2022 7:59 AM
То:	Chris McCord; Foord, Scott; EnvironmentDM-India; DeMarco, Andrew
Cc:	Rodriquez, Cory
Subject:	RE: Pace Analytical National Login for 30123982-0003 NM F- State Tank Battery L1469352
Attachments:	In01L1469352.pdf; COCL1469352 (003).pdf

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Chris, can you please update the sample ID for us to correct Chevron labeling: MW-6-W-220308. Also edit on attached COC.

Can you add Andrew DeMarco to final report as well please.

Thank You,

Morgan Jordan |AFS| Environmental Scientist | <u>douglas.jordan@arcadis.com</u> Arcadis | Arcadis U.S., Inc. 98 San Jacinto Blvd, Suite 414 | Austin, TX | 78701 | USA M. +1 281 644 9437

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Be green, leave it on the screen.

-----Original Message-----From: Chris McCord <<u>chris.mccord@pacelabs.com></u> Sent: Thursday, March 10, 2022 9:19 PM To: Foord, Scott <<u>William.Foord@arcadis.com>;</u> Jordan, Morgan <<u>Douglas.Jordan@arcadis.com>;</u> EnvironmentDM-India <u><environmentDM-India@arcadis.com></u> Subject: Pace Analytical National Login for 30123982-0003 NM F- State Tank Battery L1469352

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Visit Pace National's secure data management web site - myData - for all your reporting and data management needs at https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.pacenational.com%2Flogin&data=04%7 C01%7Cdouglas.jordan%40arcadis.com%7Cec7246c5f1774a28f72d08da030de1e6%7C7f90057d3ea046feb07ce056862 7081b%7C0%7C0%7C637825655546575132%7CUnknown%7CTWFpbGZsb3d8eyJWljoiMC4wLjAwMDAiLCJQljoiV2lu

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	CAL REPORT	¹ Cp
		² Tc
		³ Ss
Arcadis - Chevron - T	< c	4
Sample Delivery Group:	L1502820	Cn
Samples Received:	06/09/2022	⁵ Sr
Project Number:	30049835.0002B	
Description:	NM F- State Tank Battery	⁶ Qc
Site:	NM F-STATE	7
Report To:	Morgan Jordan	GI
1	10205 Westheimer Road	⁸ Al
	Suite 800	
	Houston, TX 77042	°Sc

Entire Report Reviewed By: Chu, form

Chris McCord 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 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

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Released to Imaging: 0/2/2023 1:38:02 PM Arcadis - Chevron - TX

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SAMPLE SUMMARY

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Ср

²Tc

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MW-6-W-220608 L1502820-01 GW			Collected by Cory Rodriguez	Collected date/time 06/08/22 09:07	Received da 06/09/22 08	
Method	Batch	Dilution	Preparation date/time	Analysis	Analyst	Location
Wet Chemistry by Method 300.0	WG1889145	1	07/02/22 16:47	date/time 07/02/22 16:47	LBR	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8021B	WG1889145 WG1877680	1	06/10/22 16:40	06/10/22 16:40	DWR	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
MW-3-W-220608 L1502820-02 GW			Cory Rodriguez	06/08/22 09:33	06/09/22 08	8:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 300.0	WG1889145	1	07/02/22 16:59	07/02/22 16:59	LBR	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8021B	WG1877680	1	06/10/22 17:02	06/10/22 17:02	DWR	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
MW-8-W-220608 L1502820-03 GW			Cory Rodriguez	06/08/22 09:53	06/09/22 08	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
	Batch	Diation	date/time	date/time	, and you	Location
Wet Chemistry by Method 300.0	WG1889145	1	07/02/22 17:12	07/02/22 17:12	LBR	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8021B	WG1877680	1	06/10/22 17:23	06/10/22 17:23	DWR	Mt. Juliet, TN
			Collected by		Deserved de	h = /h:
			Collected by Cory Rodriguez	Collected date/time 06/08/22 10:12	Received da 06/09/22 08	
MW-4-W-220608 L1502820-04 GW						
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1889145	1	07/02/22 17:24	07/02/22 17:24	LBR	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8021B	WG1877680	1	06/10/22 17:45	06/10/22 17:45	DWR	Mt. Juliet, TN
			Collected by Cory Rodriguez	Collected date/time 06/08/22 10:50	Received da 06/09/22 08	
MW-5-W-220608 L1502820-05 GW				00/08/22 10:50	00/09/22 00	5.00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Net Chemistry by Method 300.0	WG1889145	1	date/time 07/02/22 17:36	date/time 07/02/22 17:36	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1889145 WG1877680	1	06/10/22 17:36	06/10/22 18:06	DWR	Mt. Juliet, Th Mt. Juliet, Th
			00/10/22 10:00	00/10/22 10:00	Dim	Mit Sullet, H
			Collected by	Collected date/time	Received da	te/time
MW-7-W-220608 L1502820-06 GW			Cory Rodriguez	06/08/22 12:50	06/09/22 08	3:00
Nethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 300.0	WG1889145	1	07/02/22 17:49	07/02/22 17:49	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1877680	1	06/10/22 18:28	06/10/22 18:28	DWR	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
MW-9R-W-220608 L1502820-07 GW			Cory Rodriguez	06/08/22 13:10	06/09/22 08	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
	Batem	Shation	date/time	date/time	, analyse	20001011
Wet Chemistry by Method 300.0	WG1889145	1	07/02/22 18:51	07/02/22 18:51	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1877680	1	06/10/22 18:49	06/10/22 18:49	DWR	Mt. Juliet, TN

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CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord Project Manager



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SAMPLE RESULTS - 01 L1502820

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Wet Chemistry by Method 300.0

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	— Cp
Analyte	mg/l		mg/l	mg/l		date / time		2
Chloride	68.4		0.379	1.00	1	07/02/2022 16:47	WG1889145	Tc

/olatile Organic Compounds (GC) by Method 8021B												
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch					
Analyte	mg/l		mg/l	mg/l		date / time						
Benzene	U		0.000190	0.000500	1	06/10/2022 16:40	<u>WG1877680</u>					
Toluene	U		0.000412	0.00100	1	06/10/2022 16:40	<u>WG1877680</u>					
Ethylbenzene	U		0.000160	0.000500	1	06/10/2022 16:40	<u>WG1877680</u>					
m&p-Xylenes	U		0.000310	0.00100	1	06/10/2022 16:40	<u>WG1877680</u>					
o-Xylene	U		0.000200	0.000500	1	06/10/2022 16:40	<u>WG1877680</u>					
Total Xylene	U		0.000510	0.00150	1	06/10/2022 16:40	<u>WG1877680</u>					
Total BTEX	U		0.000160	0.000500	1	06/10/2022 16:40	<u>WG1877680</u>					
(S) a,a,a-Trifluorotoluene(PID)	103			79.0-125		06/10/2022 16:40	<u>WG1877680</u>					

SAMPLE RESULTS - 02 L1502820

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Wet Chemistry by Method 300.0

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	- Cp
Analyte	mg/l		mg/l	mg/l		date / time		2
Chloride	74.6		0.379	1.00	1	07/02/2022 16:59	WG1889145	Tc

Volatile Organic C	Volatile Organic Compounds (GC) by Method 8021B												
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch						
Analyte	mg/l		mg/l	mg/l		date / time			4 Cn				
Benzene	U		0.000190	0.000500	1	06/10/2022 17:02	WG1877680		CII				
Toluene	U		0.000412	0.00100	1	06/10/2022 17:02	WG1877680		5				
Ethylbenzene	U		0.000160	0.000500	1	06/10/2022 17:02	WG1877680		ິSr				
m&p-Xylenes	U		0.000310	0.00100	1	06/10/2022 17:02	WG1877680						
o-Xylene	U		0.000200	0.000500	1	06/10/2022 17:02	WG1877680						
Total Xylene	U		0.000510	0.00150	1	06/10/2022 17:02	WG1877680		QC				
Total BTEX	U		0.000160	0.000500	1	06/10/2022 17:02	WG1877680		7				
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125		06/10/2022 17:02	WG1877680		GI				

SAMPLE RESULTS - 03 L1502820

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Wet Chemistry by Method 300.0

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l	mg/l		date / time		2
Chloride	51.6		0.379	1.00	1	07/02/2022 17:12	WG1889145	Tc

Volatile Organic C	Compound	ds (GC) by	Method 80)21B				
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l		date / time		
Benzene	U		0.000190	0.000500	1	06/10/2022 17:23	<u>WG1877680</u>	
Toluene	U		0.000412	0.00100	1	06/10/2022 17:23	<u>WG1877680</u>	
Ethylbenzene	U		0.000160	0.000500	1	06/10/2022 17:23	<u>WG1877680</u>	
m&p-Xylenes	U		0.000310	0.00100	1	06/10/2022 17:23	<u>WG1877680</u>	
o-Xylene	U		0.000200	0.000500	1	06/10/2022 17:23	<u>WG1877680</u>	
Total Xylene	U		0.000510	0.00150	1	06/10/2022 17:23	<u>WG1877680</u>	
Total BTEX	U		0.000160	0.000500	1	06/10/2022 17:23	WG1877680	
(S) a,a,a-Trifluorotoluene(PID)	103			79.0-125		06/10/2022 17:23	WG1877680	

SAMPLE RESULTS - 04 L1502820

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Wet Chemistry by Method 300.0

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l	mg/l		date / time		2
Chloride	84.8		0.379	1.00	1	07/02/2022 17:24	WG1889145	⁻Tc

Benzene U 0.000190 0.000500 1 06/10/2022 17:45 WG1877680 Toluene U 0.000412 0.00100 1 06/10/2022 17:45 WG1877680
Benzene U 0.000190 0.000500 1 06/10/2022 17:45 WG1877680 Toluene U 0.000412 0.00100 1 06/10/2022 17:45 WG1877680
Toluene U 0.000412 0.00100 1 06/10/2022 17:45 WG1877680
Ethylbenzene U 0.000160 0.000500 1 06/10/2022 17:45 WG1877680
m&p-Xylenes U 0.000310 0.00100 1 06/10/2022 17:45 WG1877680
o-Xylene U 0.000200 0.000500 1 06/10/2022 17:45 WG1877680
Total Xylene U 0.000510 0.00150 1 06/10/2022 17:45 WG1877680
Total BTEX U 0.000160 0.000500 1 06/10/2022 17:45 WG1877680
(S) 102 79.0-125 06/10/2022 17:45 WG1877680

SAMPLE RESULTS - 05 L1502820

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Wet Chemistry by Method 300.0

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l	mg/l		date / time		2
Chloride	73.5		0.379	1.00	1	07/02/2022 17:36	WG1889145	Tc

Volatile Organic C	Compound	ds (GC) by	Method 80)21B				
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l		date / time		
Benzene	U		0.000190	0.000500	1	06/10/2022 18:06	WG1877680	
Toluene	U		0.000412	0.00100	1	06/10/2022 18:06	WG1877680	
Ethylbenzene	U		0.000160	0.000500	1	06/10/2022 18:06	WG1877680	
m&p-Xylenes	U		0.000310	0.00100	1	06/10/2022 18:06	WG1877680	
o-Xylene	U		0.000200	0.000500	1	06/10/2022 18:06	WG1877680	
Total Xylene	U		0.000510	0.00150	1	06/10/2022 18:06	WG1877680	
Total BTEX	U		0.000160	0.000500	1	06/10/2022 18:06	WG1877680	
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125		06/10/2022 18:06	<u>WG1877680</u>	

SAMPLE RESULTS - 06 L1502820

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Wet Chemistry by Method 300.0

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l	mg/l		date / time		2
Chloride	62.5		0.379	1.00	1	07/02/2022 17:49	WG1889145	⁻Tc

Volatile Organic C	Compound	ds (GC) by	Method 80)21B				
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l		date / time		
Benzene	U		0.000190	0.000500	1	06/10/2022 18:28	<u>WG1877680</u>	
Toluene	U		0.000412	0.00100	1	06/10/2022 18:28	<u>WG1877680</u>	
Ethylbenzene	U		0.000160	0.000500	1	06/10/2022 18:28	<u>WG1877680</u>	
m&p-Xylenes	U		0.000310	0.00100	1	06/10/2022 18:28	<u>WG1877680</u>	
o-Xylene	U		0.000200	0.000500	1	06/10/2022 18:28	<u>WG1877680</u>	
Total Xylene	U		0.000510	0.00150	1	06/10/2022 18:28	<u>WG1877680</u>	
Total BTEX	U		0.000160	0.000500	1	06/10/2022 18:28	WG1877680	
(S) a,a,a-Trifluorotoluene(PID)	103			79.0-125		06/10/2022 18:28	<u>WG1877680</u>	

SAMPLE RESULTS - 07 L1502820

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Wet Chemistry by Method 300.0

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l	mg/l		date / time		2
Chloride	104		0.379	1.00	1	07/02/2022 18:51	WG1889145	⁻Tc

Volatile Organic C	Compound	ds (GC) by	Method 80	D21B				
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l		date / time		
Benzene	U		0.000190	0.000500	1	06/10/2022 18:49	WG1877680	
Toluene	U		0.000412	0.00100	1	06/10/2022 18:49	WG1877680	
Ethylbenzene	U		0.000160	0.000500	1	06/10/2022 18:49	WG1877680	
m&p-Xylenes	U		0.000310	0.00100	1	06/10/2022 18:49	WG1877680	
o-Xylene	U		0.000200	0.000500	1	06/10/2022 18:49	WG1877680	
Total Xylene	U		0.000510	0.00150	1	06/10/2022 18:49	WG1877680	
Total BTEX	U		0.000160	0.000500	1	06/10/2022 18:49	WG1877680	
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125		06/10/2022 18:49	<u>WG1877680</u>	

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1502820-01,02,03,04,05,06,07

Method Blank (MB)

(MB) R3811240-1 C	07/02/22 09:59				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/l		mg/l	mg/l	T
Chloride	U		0.379	1.00	
					³ S

L1511083-01 Original Sample (OS) • Duplicate (DUP)

	Driginal Sample (C						4
(03) 21311063-01-0.	Original Result			DUP RPD	DUP Qualifier	DUP RPD Limits	5
Analyte	mg/l	mg/l	1	%		% 	Ľ
Chloride	47.9	47.4	I	1.16		15	6

L1502820-06 Original Sample (OS) • Duplicate (DUP)

L1502820-06	Original Sample	e (OS) • Du	plicate	(DUP)			
(OS) L1502820-06	07/02/22 17:49 • (DUF	P) R3811240-6	07/02/22	2 18:01			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	
Analyte	mg/l	mg/l		%		%	
Chloride	62.5	62.5	1	0.0645		15	

Laboratory Control Sample (LCS)

(LCS) R3811240-2 07/02/22 10:11							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/l	mg/l	%	%			
Chloride	40.0	40.4	101	80.0-120			

L1511083-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1511083-01 07/02/22 14:30 • (MS) R3811240-4 07/02/22 14:55 • (MSD) R3811240-5 07/02/22 15:07												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	47.9	96.8	96.3	97.8	96.9	1	80.0-120			0.482	15

L1502820-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1502820-06 07/02/22 17:49 • (MS) R3811240-7 07/02/22 18:39									
		Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier	
Analy	te	mg/l	mg/l	mg/l	%		%		
Chlor	de	50.0	62.5	111	96.8	1	80.0-120		

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PAGE: 12 of 17 Volatile Organic Compounds (GC) by Method 8021B

QUALITY CONTROL SUMMARY

L1502820-01,02,03,04,05,06,07

Method Blank (MB)

(MB) R3805005-3 06/10/2	22 15:24			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
Toluene	0.000493	J	0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
m&p-Xylenes	0.000512	J	0.000310	0.00100
o-Xylene	U		0.000200	0.000500
Total Xylene	0.000512	J	0.000510	0.00150
Total BTEX	U		0.000160	0.000500
(S) a,a,a-Trifluorotoluene(PID)	102			79.0-125

Laboratory Control Sample (LCS)

(LCS) R3805005-1 06/10	/22 13:50				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Benzene	0.0500	0.0499	99.8	77.0-122	
Toluene	0.0500	0.0467	93.4	80.0-121	
Ethylbenzene	0.0500	0.0474	94.8	80.0-123	
m&p-Xylenes	0.100	0.0908	90.8	70.0-130	
o-Xylene	0.0500	0.0520	104	70.0-130	
Total Xylene	0.150	0.143	95.3	47.0-154	
Total BTEX	0.300	0.287	95.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			102	79.0-125	

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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

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
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: L1502820 DATE/TIME: 07/08/22 19:47
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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
Louisiana	AI30792	Tennessee ¹⁴	2006
Louisiana	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: L1502820

DAT 07/08/ PAGE: 15 of 17

Arcadis - Chevron - TX			Billing Info								iner / Preservat			Chain of Cu	itody Page	-+ 01
10205 Westheimer Road Suite 800 Houston, TX 77042			630 Plaz	counts Payab a Drive, Suite Is Ranch, CO	600	Pres Chk								- 4	Pace Bace	SCIENCE
Report to:			Email To:			10									T JULIET, T	
Morgan Jordan			douglas.jo	rdan@arcadis.co	~ "	1.								Submitting a san	Rd Mount Juliet, TN 3 nple via this chain of c owledgment and acce	custody
Project Description: NM F- State Tank Battery		City/State Collected:			Please Ci PT MT C										Conditions found at: labs.com/hubfs/pas-	standard-
Phone: 713-953-4750	Client Project 30049835.			Lab Project # CHEVARCA	-NMFSTATE			VoPres						SDG # L	15028	20
collected by (print): Cory Redrigues	Site/Facility II			P.O. #		1		HDPE-N						Acctnum:	A14	
Collected by (signature):	Same D	ay 5 Day	Day y (Rad Only)	Quote # Date Resu	ults Needed	T	40mlAmb-HC	125mlHDPE-NoPres						Template: Prelogin: F		
Packed on Ice N Y Y	Two Da)ay	ay (Rad Only)	1		No. of		CHLORIDE						PB: BI		5
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	BTEX	CHL						Remark		# (lab only
UW-6-W-220608	G	GW		6/8/22	0907	3	X	X							-0	1
UW-3-W-220608	G	GW		618/22	0933	3	X	X						and the second	-0'	2
MW-8-W-220408	G	GW		418/22	0953	34	X	X						the second second	-0	3
uw-4-w-220608	a	GW		618/22	1012	3	X	X		1					-0	A CONTRACTOR OF
MW-9-N-220408	G	GW		6/8/22	1050	3	X	X							-0	
MW-7-W-220408	G	GW		4/8/22	1250	3	X	X		1					-0	
NW-9R-W-220408	G	GW		4/8/22	1310	3	X	X		- preside a					- 0	57
		GW				3	X	X								
		GW				3	X	X								
Matrix:	emarks:	GW		1		3	X	X						ample Receipt	Checklist	
S - Soil AIR - Air F - Filter 5W - Groundwater B - Bioassay NW - WasteWater					1	(r			pH Flow		_ Temp _ Other		COC Seal COC Sign Bottles	l Present/Inta ned/Accurate: arrive intact bottles used:	ict: _NP	
DW - Drinking Water S DT - Other	amples returned _ UPS FedEx			Trac	king #								Sufficie VOA Zero	ent volume ser <u>If Applic</u> D Headspace:	nt: cable	Y N
Relinquished by : (Signature)	4	ate: 18/22	Time 13	558 6	ived by: (Signat	-					HEL/M TBR	еоН	RAD Scr	ation Correct/ een <0.5 mR/hr	•	
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Time estimat	e: oh		Time spen	t: oh	
			Time spen		
Members					
HM) Hailey Me	elson (responsible)	Christo	pher McCord		
Due on 13 June	e 2022 8:00 AM for ta	irget <i>Done</i>			
Parameter(s) past holding time				
🖌 Temperatur	re not in range				
Improper c	ontainer type				
pH not in ra	ange				
Insufficient	sample volume				
Sample is b	iphasic				
Vials receiv	ed with headspace				
🖌 Broken con	tainer				
Sufficient s	ample remains				
If broken co	ontainer: Insufficient	packing mate	rial around con	tainer	
If broken co	ontainer: Insufficient	packing mate	erial inside coole	er	
If broken co	ontainer: Improper ha	andling by car	rrier:		
If broken co	ontainer: Sample was	frozen			
If broken co	ontainer: Container lie	d not intact			
Client infor	med by Call				
 Client infor 	med by Email				
Client infor	med by Voicemail				
✓ Date/Time:	6/10/22 17:00				
✓ PM initials:	CM				
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Comments					
Hailey Melso	on	*********	***************************************	9	June 2022 11:05 AM
1) All Ice me	lted. Temp = 14.9				
	ı vial broken for ID: M	/IW-8-W-220	608		
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Pace Analytical[®]

	CAL REPORT
Augus	st 26, 2022
Arcadis - Chevron - T	X
Sample Delivery Group:	L1525752
Samples Received:	08/16/2022
Project Number:	30123982 - 0003
Description:	NM F State
Site:	NM F-STATE
Report To:	Morgan Jordan

10205 Westheimer Road

Houston, TX 77042

Suite 800

Entire Report Reviewed By:

Chu, toph June

Chris McCord 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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PROJECT: 30123982 - 0003

SDG: L1525752

DATE/TIME: 08/26/22 12:04 PAGE: 1 of 10

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Sr: Sample Results	5
MW-6-W-220815 L1525752-01	5
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Wet Chemistry by Method 300.0	6
Volatile Organic Compounds (GC) by Method 8021B	7
GI: Glossary of Terms	8
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PROJECT: 30123982 - 0003

SDG: L1525752 DA1 08/26

DATE/TIME: 08/26/22 12:04 PAGE: 2 of 10 Received by OCD: 5/16/2023 1:26:01 PM

SAMPLE SUMMARY

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			Collected by	Collected date/time	e Received dat	e/time
MW-6-W-220815 L1525752-01 GW			Daniel McGee	08/15/22 09:30	08/16/22 08:4	45
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 300.0	WG1912355	1	08/17/22 21:47	08/17/22 21:47	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1914370	1	08/22/22 07:44	08/22/22 07:44	ACG	Mt. Juliet, TN

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	Arcadis - Chevron - TX		

PROJECT: 30123982 - 0003

SDG: L1525752

DATE/TIME: 08/26/22 12:04

PAGE: 3 of 10

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord Project Manager



SDG: L1525752

DATE/TIME: 08/26/22 12:04

PAGE: 4 of 10

SAMPLE RESULTS - 01 L1525752

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Wet Chemistry by Method 300.0

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l	mg/l		date / time		2
Chloride	75.6		0.379	1.00	1	08/17/2022 21:47	WG1912355	⁻Tc

Volatile Organic C	Compound	ds (GC) by	Method 80)21B				
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l		date / time		
Benzene	U		0.000190	0.000500	1	08/22/2022 07:44	WG1914370	
Toluene	U		0.000412	0.00100	1	08/22/2022 07:44	<u>WG1914370</u>	
Ethylbenzene	U		0.000160	0.000500	1	08/22/2022 07:44	WG1914370	
m&p-Xylenes	U		0.000310	0.00100	1	08/22/2022 07:44	<u>WG1914370</u>	
o-Xylene	U		0.000200	0.000500	1	08/22/2022 07:44	WG1914370	
Total Xylene	U		0.000510	0.00150	1	08/22/2022 07:44	<u>WG1914370</u>	
Total BTEX	U		0.000160	0.000500	1	08/22/2022 07:44	WG1914370	
(S) a,a,a-Trifluorotoluene(PID)	98.3			79.0-125		08/22/2022 07:44	WG1914370	

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1525752-01

Method Blank (MB)

(MB) R3827943-1 08/	17/22 21:22			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00

L1525752-01 Original Sample (OS) • Duplicate (DUP)

	L1525752-01 Oligii	iai Sample	(OS) • Du	Silcate (DUP)		
Inalyte mg/l %	OS) L1525752-01 08/17/2	2 21:47 • (DUP)	R3827943-3	08/17/22	22:00		
		Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	
inloride 75.6 75.4 1 0.336 15	analyte	mg/l	mg/l		%		%
	Chloride	75.6	75.4	1	0.336		15

L1526158-04 Original Sample (OS) • Duplicate (DUP)

L1526158-04	Original Sample	(OS) • Du	olicate (DUP)		
(OS) L1526158-04	08/18/22 03:24 • (DUP) R3827943-6	6 08/18/22	03:36		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	21.6	21.4	1	0.608		15

Laboratory Control Sample (LCS)

(LCS) R3827943-2 08/17	CS) R3827943-2 08/17/22 21:35											
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier							
Analyte	mg/l	mg/l	%	%								
Chloride	40.0	41.8	105	80.0-120								

L1526028-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1526028-01 08/17/22 22:37 • (MS) R3827943-4 08/17/22 22:50 • (MSD) R3827943-5 08/17/22 23:02												
Spike Amount Original Result MS Result MS Result MS Rec. MSD Rec. Dilution Rec. Limits MS Qualifier MSD Qualifier RPD RPD Limits												
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	74.5	123	124	97.3	99.1	1	80.0-120			0.739	15

L1526158-04 Original Sample (OS) • Matrix Spike (MS)

(OS)	(OS) L1526158-04 08/18/22 03:24 • (MS) R3827943-7 08/18/22 03:49									
		Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier		
Analy	/te	mg/l	mg/l	mg/l	%		%			
Chlor	ide	50.0	21.6	72.4	102	1	80.0-120			

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Volatile Organic Compounds (GC) by Method 8021B

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3829189-3 08/22/	22 04:50				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Benzene	U		0.000190	0.000500	
Toluene	U		0.000412	0.00100	
Ethylbenzene	U		0.000160	0.000500	
m&p-Xylenes	U		0.000310	0.00100	
o-Xylene	U		0.000200	0.000500	
Total Xylene	U		0.000510	0.00150	
Total BTEX	U		0.000160	0.000500	
(S) a,a,a-Trifluorotoluene(PID)	98.0			79.0-125	

Laboratory Control Sample (LCS)

(LCS) R3829189-1 08/22	/22 03:34				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Benzene	0.0500	0.0448	89.6	77.0-122	
Toluene	0.0500	0.0437	87.4	80.0-121	
Ethylbenzene	0.0500	0.0451	90.2	80.0-123	
m&p-Xylenes	0.100	0.0876	87.6	70.0-130	
o-Xylene	0.0500	0.0436	87.2	70.0-130	
Total Xylene	0.150	0.131	87.3	47.0-154	
Total BTEX	0.300	0.265	88.3	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			97.5	79.0-125	

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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

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

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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
lorida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
daho	TN00003	Ohio–VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Centucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
ouisiana	Al30792	Tennessee ¹⁴	2006
ouisiana	LA018	Texas	T104704245-20-18
laine	TN00003	Texas ⁵	LAB0152
/laryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Aichigan	9958	Virginia	110033
<i>l</i> innesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
lissouri	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: L1525752

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Company Name/Address:			Billing Infor	mation:					A	nalvsis /	Contain	ner / Pres	ervative	E.S.	100000	Chain of Custo	ody Page (of
Arcadis - Chevron - TX			630 Plaza	ounts Payable Drive, Suite s Ranch, CO 8	600	Pres Chk										- A	Pace"
Houston. TX 77042			En ell Ter				-									MT	JULIET, TN
Report to: Morgan Jordan			Email To: douglas.jordan@arcadis.com;brianna.sanchez@													Submitting a samp	Mount Juliet, TN 37122 e via this chain of custody ledgment and acceptance
Project Description: NM F State		City/State Collected:	Hobbs,	OM	Please Cir PT MT C											Pace Terms and Co https://info.pacela terms.pdf	nditions found at: bs.com/hubfs/pas-standarc
Phone: 713-953-4750	Client Project 30123982			Lab Project # CHEVARCA-	NMFSTATE			loPres								SDG #	. 1525
Collected by (print): Daniel Mcbel	Site/Facility II			P.O. #	÷.	Ť		125mlHDPE-NoPres								Table Acctnum: C	G159
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Immediately Packed on Ice N_Y	Same D Next Da Two Da Three D	ay 5 Da y 10 D	Day y (Rad Only) ay (Rad Only)	Date Resu Standard	1	No. of	40mlAmb-HC	CHLORIDE 12								PM: 526 - C PB: Shipped Via	nris McCord
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	BTEX	CHLO								Remarks	Sample # (lab o
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		GW				4	X	X									
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					6/00	1	1	Sec.		35-1							
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks: Samples returned via: UPSFedExCourier									pH Flov		_ Temp _ Other		- CC	C Seal C Sign ottles orrect	ample Receipt Present/Inta ed/Accurate: arrive intact bottles used: ent volume sen	ct: Y Y Y Y
DW - Drinking Water OT - Other				Tracking # 5719				6	Trip Blank Received: Yes (No)				V(P)	DA Zero ceserva	If Applic Headspace: tion Correct/	able Checked:Y	
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Entire Report Reviewed By:

Chu, foph June

Chris McCord Project Manager

Morgan Jordan

Suite 800

10205 Westheimer Road

Houston, TX 77042

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the 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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MW-6-W-221118 L1559964-01 GW			Collected by Cory Rodriguez	Collected date/time 11/18/22 09:22	Received dat 11/19/22 08:0	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 300.0	WG1965325	1	11/28/22 08:51	11/28/22 08:51	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1963844	1	11/22/22 21:31	11/22/22 21:31	BAM	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
MW-5-W-221118 L1559964-02 GW			Cory Rodriguez	11/18/22 09:47	11/19/22 08:0	0
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 300.0	WG1965842	1	11/28/22 16:54	11/28/22 16:54	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1963844	1	11/22/22 21:53	11/22/22 21:53	BAM	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
MW-9R-W-221118 L1559964-03 GW			Cory Rodriguez	11/18/22 09:58	11/19/22 08:0	0
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 300.0	WG1965842	1	11/28/22 18:06	11/28/22 18:06	LBR	Mt. Juliet, TN

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CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris McCord Project Manager



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SAMPLE RESULTS - 01 L1559964

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Wet Chemistry by Method 300.0

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	— Cp
Analyte	mg/l		mg/l	mg/l		date / time		2
Chloride	73.8		0.379	1.00	1	11/28/2022 08:51	WG1965325	⁻Tc

Volatile Organic C	Compound	s (GC) by	Method 80)21B				
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l		date / time		
Benzene	U		0.000190	0.000500	1	11/22/2022 21:31	WG1963844	
Toluene	U		0.000412	0.00100	1	11/22/2022 21:31	WG1963844	
Ethylbenzene	0.000286	ВJ	0.000160	0.000500	1	11/22/2022 21:31	WG1963844	
m&p-Xylenes	U		0.000310	0.00100	1	11/22/2022 21:31	WG1963844	
o-Xylene	U		0.000200	0.000500	1	11/22/2022 21:31	WG1963844	
Total Xylene	U		0.000510	0.00150	1	11/22/2022 21:31	WG1963844	
Total BTEX	0.000286	J	0.000160	0.000500	1	11/22/2022 21:31	WG1963844	
(S) a,a,a-Trifluorotoluene(PID)	111			79.0-125		11/22/2022 21:31	WG1963844	

SAMPLE RESULTS - 02 L1559964

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Wet Chemistry by Method 300.0

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	— Ср
Analyte	mg/l		mg/l	mg/l		date / time		2
Chloride	80.4		0.379	1.00	1	11/28/2022 16:54	WG1965842	Tc

Volatile Organic C	Compound	s (GC) by	Method 80)21B				
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l		date / time		
Benzene	U		0.000190	0.000500	1	11/22/2022 21:53	WG1963844	
Toluene	U		0.000412	0.00100	1	11/22/2022 21:53	WG1963844	
Ethylbenzene	0.000287	B J	0.000160	0.000500	1	11/22/2022 21:53	WG1963844	
m&p-Xylenes	U		0.000310	0.00100	1	11/22/2022 21:53	WG1963844	
o-Xylene	U		0.000200	0.000500	1	11/22/2022 21:53	WG1963844	
Total Xylene	U		0.000510	0.00150	1	11/22/2022 21:53	WG1963844	
Total BTEX	0.000287	J	0.000160	0.000500	1	11/22/2022 21:53	WG1963844	
(S) a,a,a-Trifluorotoluene(PID)	112			79.0-125		11/22/2022 21:53	WG1963844	

SAMPLE RESULTS - 03 L1559964

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Wet Chemistry by Method 300.0

	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	Ср
Analyte	mg/l		mg/l	mg/l		date / time		2
Chloride	97.0		0.379	1.00	1	11/28/2022 18:06	WG1965842	Тс

Volatile Organic C	Compound	s (GC) by	Method 80)21B				
	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l	mg/l		date / time		
Benzene	U		0.000190	0.000500	1	11/22/2022 22:15	WG1963844	
Toluene	U		0.000412	0.00100	1	11/22/2022 22:15	WG1963844	
Ethylbenzene	0.000288	ВJ	0.000160	0.000500	1	11/22/2022 22:15	WG1963844	
m&p-Xylenes	U		0.000310	0.00100	1	11/22/2022 22:15	WG1963844	
o-Xylene	U		0.000200	0.000500	1	11/22/2022 22:15	WG1963844	
Total Xylene	U		0.000510	0.00150	1	11/22/2022 22:15	WG1963844	
Total BTEX	0.000288	J	0.000160	0.000500	1	11/22/2022 22:15	WG1963844	
(S) a,a,a-Trifluorotoluene(PID)	111			79.0-125		11/22/2022 22:15	WG1963844	

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1559964-01

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Method Blank (MB)

(MB) R3865497-1 11/	/28/22 02:40			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00

L1559951-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1559951-06 01/28/2						
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	139	133	1	3.94		15

L1559964-01 Original Sample (OS) • Duplicate (DUP)

L1559964-01 Or	riginal Sample	(OS) • Dup	olicate (DUP)		
(OS) L1559964-01 11/2	28/22 08:51 • (DUP)	R3865497-5	11/28/22 ()9:04		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	73.8	72.7	1	1.53		15

Laboratory Control Sample (LCS)

(LCS) R3865497-2 11/28/	22 02:54				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	40.4	101	80.0-120	

L1559951-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1559951-06 11/28/2	2 04:16 • (MS) F	3865497-4 11/	/28/22 04:44				
	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	139	176	73.9	1	80.0-120	<u>J6</u>

L1559964-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1559964-01 11/28/2	22 08:51 • (MS) F	R3865497-6 11/	/28/22 09:18	• (MSD) R38654	497-7 11/28/2	2 09:32							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Chloride	50.0	73.8	118	118	88.7	88.9	1	80.0-120			0.0889	15	
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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1559964-02,03

Method Blank (MB)

Method Diam				
(MB) R3866013-1	1/28/22 13:43			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.379	1.00

L1559964-02 Original Sample (OS) • Duplicate (DUP)

L1559964-02 Original Sample (OS) • Duplicate (DUP)								
(OS) L1559964-02 11/28/	22 16:54 • (DUP)	R3866013-3	11/28/221	7:12				
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		
Analyte	mg/l	mg/l		%		%		
Chloride	80.4	79.3	1	1.50		15		

L1560581-01 Original Sample (OS) • Duplicate (DUP)

L1560581-01	Original Sample ((OS) • Dup	olicate (I	OUP)		
(OS) L1560581-01	11/28/22 20:47 • (DUP)	R3866013-6	11/28/22 2	1:05		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	34.5	34.6	1	0.418		15

Laboratory Control Sample (LCS)

(LCS) R3866013-2 11/28/2	(LCS) R3866013-2 11/28/22 14:01							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/l	mg/l	%	%				
Chloride	40.0	41.6	104	80.0-120				

L1559964-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1559964-02 11/28/22 16:54 • (MS) R3866013-4 11/28/22 17:30 • (MSD) R3866013-5 11/28/22 17:48												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	80.4	127	125	92.1	88.2	1	80.0-120			1.57	15

L1560581-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L	(OS) L1560581-01 11/28/22 20:47 • (MS) R3866013-7 11/28/22 21:23										
		Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier			
Analyte	<u>)</u>	mg/l	mg/l	mg/l	%		%				
Chlorid	e	50.0	34.5	82.2	95.4	1	80.0-120				

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Volatile Organic Compounds (GC) by Method 8021B

QUALITY CONTROL SUMMARY

Method Blank (MB)

()				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Benzene	U		0.000190	0.000500
Toluene	0.000686	J	0.000412	0.00100
Ethylbenzene	0.000323	J	0.000160	0.000500
m&p-Xylenes	U		0.000310	0.00100
o-Xylene	U		0.000200	0.000500
Total Xylene	U		0.000510	0.00150
Total BTEX	U		0.000160	0.000500
(S) a,a,a-Trifluorotoluene(PID)	111			79.0-125

Laboratory Control Sample (LCS)

(LCS) R3865137-1 11/22/2	22 12:10				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Benzene	0.0500	0.0547	109	77.0-122	
Toluene	0.0500	0.0486	97.2	80.0-121	
Ethylbenzene	0.0500	0.0558	112	80.0-123	
m&p-Xylenes	0.100	0.0996	99.6	70.0-130	
o-Xylene	0.0500	0.0520	104	70.0-130	
Total Xylene	0.150	0.152	101	47.0-154	
Total BTEX	0.300	0.311	104	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			110	79.0-125	

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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

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
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

В	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

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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
daho	TN00003	Ohio-VAP	CL0069
llinois	200008	Oklahoma	9915
ndiana	C-TN-01	Oregon	TN200002
owa	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
Vichigan	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.

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Arcadis - Chevron - TX 10205 Westheimer Road Suite 800 Houston, TX 77042		Attn: Accounts Payable 630 Plaza Drive, Suite 600			Pres Chk										
		Highlands Ranch, CO 80129											PEOPI	E ADVANCING SCIENCE	
Report to:			Email To: douglas.jordan@arcadis.com;andrew.demai				-							MTJ	ULIET, TN
Morgan Jordan														12065 Lebanon Rd M Submitting a sample	ount Juliet, TN 37122 ia this chain of custody
Project Description: NM F State		City/State Collected:	Please Ci PT MT C											constitutes acknowled Pace Terms and Cond https://info.pacelabs.	igment and acceptance of
Phone: 713-953-4750	Client Project 30123982 -			Lab Project # CHEVARCA-NMFSTATE				loPres						SDG #	5996
Collected by (print): Cory Rodriguez	ry Rodriguez NM F-STATE			P.O. #		1-		SmIHDPE-NoPres			Acctnum: CH		204		
Collected by (signature):					1		H-du	Smlt						Template: T198189	
Immediately Y_k State State		y 5 Day 10 Da	y (Rad Only) Date Results Needed		sults Needed	No. of	40mlAmb-HCl	RIDE	RIDE 12					Prelogin: P96 PM: 526 - Chr PB: BF	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	втех	CHLOI						Shipped Via: F	edEX Ground Sample # (lab on
NW-4-w-221118	G	GW		11/18/2:	0922	4	X	x							-01
MW-4-W-221118 MW-5-W-221118	G	GW	-	11/18/22	0947	4	X	X							n
MW-9R-W-221118	G	GW		11/18/22		4	X	X							-03
		GW				4	X	X							
2		GW				4	X	X							
· · · · · · · · · · · · · · · · · · ·						-									
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water Samples returned via:								<u> </u>		pH Temp			Sample Receipt Checklist COC Seal Present/Intact: NP Y COC Signed/Accurate:		
		iler						Flow		Flow	Other		Bottles a Correct b	rrive intact: ottles used: t volume sent:	
OT - Other	UPS FedEx	Courier		_	cking #	1						1	VOA Zero	If Applicab Headspace:	1_
Relinquished by : (Signature)	Da 1	118/2	z 14:	25 1	eived by: (Signati	-	1	/	7			d: Yes / No HCL / MeoH TBR	RAD Scree	ion Correct/Che n <0.5 mR/hr:	7-
Relinguished by: (Signature)	Da }	te: 1827	Time 17	ino <	ceived by: (Signati	ure			Te		10 -	Bottles Received:	If preservat	ion required by Log	in: Date/Time
Relinquished by : (Signature)	Da	te:	Time	Red	ceived for lab by:	(Signati	ure)		D	ate:		Time:	Hold:		Condition: NCF / OK

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

Action 217341

CONDITIONS						
Operator: CHEVRON U S A INC	OGRID: 4323					
6301 Deauville Blvd Midland, TX 79706	Action Number: 217341					
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)					

CONDITIONS								
Created By	Condition	Condition Date						
michael.buchanan	Review of the 2022 Annual Groundwater Report for F State Tank Battery submitted on behalf of Chevron: Content Satisfactory 1. Request to reduce LNAPL Recovery and Gauging is granted for one (1) year to allow conditions at the site to equilibrate. 2. Monitoring wells: MW3, MW-4, MW-5, MW-7, MW-8, MW-9R, WW-1, and WW-2 may be reduced from sampling events. 3. Continue all other monitoring activities for the site 4. Submit the 2023 Annual Groundwater monitoring report by April 1, 2024.	8/2/2023						