



Jason Michelson
Operations Lead, Portfolio Operations Central

June 20, 2024

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

REVIEWED

By Mike Buchanan at 4:37 pm, Jan 30, 2025

**Re: Pardue Farms 27-12 Well Site
Incident # nJMW1231341442
2024 Site Assessment Work Plan**

Dear whom it concerns,

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

- Pardue Farms 27-12 Well Site 2024 Site Assessment Work Plan

The submittal was prepared by Arcadis U.S., Inc. (Arcadis) for Chevron Environmental Management Company (CEMC) on behalf of Chevron U.S.A. Inc.

Please do not hesitate to call Russell Grant with Arcadis at 432-217-2064 or myself at 832-854-5601, should you have any questions.

Respectfully,

Jason Michelson

Jason Michelson

- Encl. Pardue Farms 27-12 Well Site 2024 Site Assessment Work Plan
-

C.C. Amy Barnhill, Chevron/MCBU

Jason Michelson
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Review of the Pardue Farms 27-12 Well Site 2024 Site Assessment Work Plan is approved and satisfactory with the following conditions of approval:

1. Conduct Task1 and
2. Utility Locate as planned in report, and carry out Project Management and coordination.
3. Conduct Soil Boring delineation as planned in work plan and report results to OCD.
4. Conduct plans as prescribed in Task 4, Groundwater Monitoring with semi-annual groundwater monitoring events as scheduled for BTEX, TPH, and chloride.
5. Please submit results and the groundwater monitoring report to OCD via the online portal by April 1 2025.



Jason Michelson
Operations Lead – Central
Upstream Business Unit
Chevron Environmental Management Company
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Houston, Texas 77002

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Date: June 17, 2024
Subject: 2024 Work Plan
2024 Assessment Activities
Chevron Pardue Farms 27-12 Well Site
Incident ID: nJMW1231341442
Eddy County, New Mexico

TX Engineering License # F-533
TX Geoscientist License # 50158

Dear Mr. Michelson,

At the request of Chevron Environmental Management Company. (CEMC) on behalf of Chevron U.S.A. Inc., through Chevron Midcontinent, L.P., Arcadis U.S., Inc. (Arcadis) is providing this work plan (WP) to perform additional soil and groundwater assessment activities for the Chevron Pardue Farms 27-12 Well Site located in Eddy County, New Mexico (Site). This WP are for tasks anticipated to be completed in 2024. The tasks in this WP include:

- Project Management and Coordination
- Utility Locate
- Soil Boring Delineation
- Groundwater Monitoring
- Reporting

Project Information

The Site is located approximately one mile southeast of Loving, New Mexico along the northeast quarter of the southwest quarter of Section 27, Township 23-South, Range 28-East. The property surface is privately owned and Chevron Midcontinent, L.P. holds the oil and gas lease.

The Site is on the western edge of the Permian Basin, a 75,000-square-mile area in Texas and New Mexico that is populated by numerous oil and gas production wells. In New Mexico, the Permian Basin extends to Roosevelt County to the north, Chaves and Eddy County to the west, and to Texas to the south. Additional Site history and previous investigation summaries are provided in **Attachment 1**.

Scope of Work

Task 1 – Project Management and Coordination

Mr. Michelson
CEMC
June 17, 2024

This task includes professional labor services for project coordination with CEMC, Mid-Continent Business Unit (MCBU), New Mexico State Office of the Engineer (NMOSE), and New Mexico Oil Conservation Division (NMOCD). Work will include project planning with the CEMC operations lead, including one in-person meeting with the NMOCD or Landowner.

In addition, the following activities associated with project controls will also be completed:

-
- General project communications, correspondence, and coordination
- Reviewing and updating site-specific health and safety plan (HASP)

Task 2 - Utility Locate

Prior to initiating any intrusive work, the presence of subsurface and overhead utilities will be investigated in accordance with Arcadis Utility Location and Clearance Standard (Health and Safety Standard No. ARCHSFS019) and CEMC Ground Disturbance Standard and supplemental Subsurface Line Strike Prevention Guidance, requiring a minimum of three lines of evidence consisting of the following:

- Notify New Mexico 811 a minimum of 48 hours in advance of commencing intrusive activities at the Site. The notification will allow its member utilities to review the proposed drilling location at the Site and identify potential subsurface utility conflicts.
- Contract a licensed private utility locating service to complete a geophysical survey of the proposed drilling location at the Site. The private utility locating service will utilize ground penetrating radar and electromagnetic equipment, among other utility locating techniques, to identify any subsurface utilities near the proposed drilling location. Located utilities will be surveyed using Trimble GeoExplorer 6000 series global positioning system equipment, or equivalent.
- Arcadis will prepare and submit a dig plan to the Chevron MCBU Functional Operations Team for approval.
- Attempt to clear the proposed drilling location utilizing air knifing equipment (by drilling subcontractor) to at least 5 feet below ground surface (bgs). In the event clearance is not feasible, the subcontractor will follow variance requirements.

The geophysical survey will require oversight by one Arcadis field staff and is assumed to take one day (12-hour/day) to complete.

Task 3 – Soil Boring Delineation

Arcadis proposes conducting further soil assessment activities at the Site, which includes the advancement of ten soil borings (SB-29 through SB-38), as depicted on **Figure 1**. Arcadis assumes that soil investigation activities will require two Arcadis staff a total of three days (12-hour/day) to complete. Arcadis assumes that MCBU Land Group will negotiate a written access agreement with the private landowner, prior to Arcadis commencing fieldwork.

The project-specific Health and Safety Plan (HASP) and detailed task-specific Job Safety Analysis (JSAs) will be updated for the field work and provided to CEMC for review and endorsement prior to any onsite work occurring. An office kick-off call will be held with CEMC, subcontractors, and Arcadis field and project management staff prior to mobilization.

Mr. Michelson
CEMC
June 17, 2024

Arcadis will secure an approved Plugging Plan from the New Mexico Office of the State Engineer (NMOSE) prior to drilling activities. Additionally, Arcadis will prepare a Dig Plan for Mid-continental Business Unit (MCBU) and CEMC review and approval prior to any drilling activities.

Arcadis proposes to use White Drilling to complete the soil borings. The drilling company will complete the following tasks, with oversight provided by Arcadis field personnel:

- Notify NM811 a minimum of 48 hours in advance of commencing intrusive activities at the Site. The notification will allow its member utilities to review proposed sample locations at the Site and identify potential subsurface utility conflicts.
- Contract a licensed private utility locating service to complete a geophysical survey of the proposed boring locations at the Site. The private utility locating service will utilize ground penetrating radar and electromagnetic equipment, among other utility locating techniques, to identify any subsurface utilities near proposed boring locations. Located utilities will be surveyed using Trimble GeoExplorer 6000 series global positioning system equipment, or equivalent. It is assumed that the geophysical survey oversight will take one Arcadis field employee one (12 hour/day) to complete, detailed above in Task 2.
- Clear all locations utilizing air knifing equipment to at least 5 feet bgs. In the event clearance to 5 feet bgs is not feasible, Arcadis will follow CEMC's variance process.
- Ten soil borings will be advanced utilizing an air rotary drilling rig to approximately 25 feet bgs. Each location will be continuously logged for lithologic characteristics according to the Unified Soil Classification System (USCS).
- Representative soil samples will be collected during the soil boring installation at the surface, at 2 feet below ground surface (bgs), at 4 feet bgs, and then at 5-foot intervals until approximately 25 feet bgs or until refusal is reached.
- Soil boring cuttings will be drummed and disposed of as Exploration and Production (E&P) exempt waste. Arcadis has included subcontractor cost to transport the soil cuttings to a Chevron approved facility. Arcadis also assumes that disposal costs will be direct billed through Chevron, thus have not been included in this proposal. Soil Borings will be plugged via pumped cement grout mixture. Arcadis assumes the soil cutting transport oversight will require one Arcadis representative a 12-hour day to complete.
- Mobilization and demobilization of the drill rig, a field support truck, an operator, and two drilling helpers.

Laboratory analysis will be provided by Pace Analytical Laboratory (Pace) in Mt. Juliet, Tennessee. The soil samples will be collected in clean, laboratory-supplied sample containers, labeled, placed on ice, cooled to approximately 4 degrees Celsius and shipped to Pace under chain-of-custody protocol with a standard (10-day) turnaround time. Soil samples collected will be analyzed for the following:

- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B.
- Total petroleum hydrocarbons (TPH) gasoline range organics (GRO), diesel range organics (DRO), and oil range organics (ORO) by USEPA Method 8015M
- Chloride by USEPA Method 300.0

Task 4 – Groundwater Monitoring

Arcadis proposes to conduct Semi-annual groundwater monitoring of the six existing monitoring wells at the Site. Groundwater samples will be collected via low-flow purge methodology utilizing a bladder pump. It is assumed

Mr. Michelson
CEMC
June 17, 2024

that each groundwater sampling event will take two Arcadis field staff two days (12-hour/day) per event to complete. Collected groundwater samples will be analyzed for the following:

- BTEX by EPA Method 8021B
- TPH-GRO, DRO, ORO by EPA Method 8015M
- Chloride by EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method 2540C

The groundwater samples will be collected in clean, laboratory-supplied sample containers, labeled, placed on ice, cooled to approximately 4 degrees Celsius and transported to Pace Labs located in Mt. Juliet, Tennessee under chain-of-custody protocol with a standard (10-day) turnaround time. Results for the groundwater monitoring events will be included in the annual monitoring report (see Task 5).

Task 5 – Annual Reporting

The results of the Semi-annual groundwater sampling and drilling activities will be summarized in a report to be submitted to the NMOCD. The report will include tabulated gauging and analytical data, figures showing locations and analytical results, boring logs, and laboratory analytical data sheets. Recommendations for Site closure and/or additional work to move the Site toward closure will be provided in a cover letter and discussed with CEMC. The report will be submitted prior to the end of the first quarter of 2025.

Assumptions

- Mobilization fees estimated based on travel costs to / from Midland, TX
- No additional field efforts will be requested
- Assumes Landowner will not impede field work and will grant site access to conduct field activities as originally planned.
- Field activities will be completed in 12-hour days
- Assumes one annual report
- Assumes weather conditions will allow access and field tasks to be completed during the scheduled events

Project Team

The Arcadis Project Manager will be Russell Grant, the Associate Project Manager will be Sheila Hernandez, and the Task Manager will be Ross Brady. Scott Foord will provide program management support

Contact

Arcadis appreciates the opportunity to provide site support services to CEMC. If you have any questions or comments, please contact either Russell Grant by phone at 432.217.2064 or by e-mail at russell.grant@arcadis.com or Scott Foord by phone at 713.953.4853 or by email at William.foord@arcadis.com.

Mr. Michelson
CEMC
June 17, 2024

Sincerely,
Arcadis U.S., Inc.



Scott Foord
Program Manager

Email: william.foord@arcadis.com

CC. Jason Michelson - CEMC

Enclosures:

Table 1	Historical Soil Analytical Data
Figures 1	March 2023 Soil Analytical Data and 2024 Proposed Boring Locations Map
Attachment 1	Site History and Previous Investigation Summaries

This proposal and its contents shall not be duplicated, used or disclosed — in whole or in part — for any purpose other than to evaluate the proposal. This proposal is not intended to be binding or form the terms of a contract. The scope and price of this proposal will be superseded by the contract. If this proposal is accepted and a contract is awarded to Arcadis as a result of — or in connection with — the submission of this proposal, Arcadis and/or the client shall have the right to make appropriate revisions of its terms, including scope and price, for purposes of the contract. Further, client shall have the right to duplicate, use or disclose the data contained in this proposal only to the extent provided in the resulting contract.

Table 1
Historical Soil Analytical Data
CEMC
Pardue Farms 27-12
Eddy County, New Mexico

Boring Location ID	Sample Date	Sample Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH-ORO	Chloride	% Moisture
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
NMAC Closure Criteria ^(a)			10	--	--	--	50	--	100	--	600	--
MW-1	4/10/2012	4 to 5	--	--	--	--	--	--	16	--	1,480	--
	4/10/2012	9 to 10	--	--	--	--	--	--	<13	--	1,760	--
MW-2	4/10/2012	14 to 15	--	--	--	--	--	--	<13	--	1,520	--
	4/10/2012	19 to 20	--	--	--	--	--	--	<13	--	689	--
MW-3	4/9/2012	4 to 5	--	--	--	--	--	--	42	--	14,300	--
	4/9/2012	9 to 10	--	--	--	--	--	--	28	--	13,900	--
	4/9/2012	14 to 15	--	--	--	--	--	--	<14	--	2,430	--
MW-4	11/5/2018	5	<0.00923	<0.00478	<0.00629	<0.00696	<0.00478	<0.237	28.5	9.43 J	237	14.4
	11/5/2018	10	<0.0100	<0.00519	<0.00684	<0.00757	<0.00519	<0.265	24.0 J	<7.51	557 D	12
	11/5/2018	15	<0.00932	<0.00483	<0.00635	<0.00703	<0.00483	<0.248	21.4 J	<7.56	447	11.2
	11/5/2018	20	<0.0105	<0.00544	<0.00716	<0.00793	<0.00544	<0.266	17.2 J	<7.56	1,220	15.7
	11/5/2018	25	<0.0115	<0.00595	<0.00783	<0.00867	<0.00595	<0.259	<7.41	<7.41	855	24.8
MW-5	10/15/2019	0 to 1	0.000566	0.00124	0.000916	0.00101	0.003732	0.0641	35.8	35.8	27.3	7.8
	10/15/2019	4 to 5	0.000554	0.00121	0.000896	0.000993	0.003653	0.0652	34.1	34.1	5.35	23.5
	10/15/2019	9 to 10	0.000626	0.00137	0.00101	0.00112	0.004126	0.0633	34.6	34.6	10.7	0.7
	10/15/2019	14 to 15	0.000716	0.00157	0.00116	0.00128	0.004726	0.0635	35.1	35.1	494	5.9
	10/15/2019	19 to 20	0.000626	0.00137	0.00101	0.00112	0.004126	0.0645	34.3	34.3	388	1.8
	10/15/2019	24 to 25	0.000587	0.00128	0.00095	0.00105	0.003867	0.0631	34.7	34.7	617	6.7
	10/15/2019	29 to 30	0.000685	0.0015	0.00111	0.00123	0.004525	0.0641	33.1	33.1	360	13.6
	10/15/2019	34 to 35	0.000652	0.00143	0.00106	0.00117	0.004312	0.064	33	33	588	14.2
	10/15/2019	39 to 40	0.0007	0.00153	0.00113	0.00126	0.00462	0.064	34.9	34.9	630	9.1
	6/21/2010	0 to 1	--	--	--	--	--	15,660	--	--	20,000	--
BH-1	6/21/2010	5 to 6	--	--	--	--	--	1,616	--	--	18,400	--
	6/21/2010	10 to 11	--	--	--	--	--	<10	--	--	8,000	--
	6/21/2010	15 to 16	--	--	--	--	--	61	--	--	2,920	--
	6/21/2010	20 to 21	--	--	--	--	--	--	--	--	2,120	--
	6/21/2010	25 to 26	--	--	--	--	--	--	--	--	1,960	--
BH-2	6/21/2010	0 to 1	--	--	--	--	--	14,760	--	--	14,400	--
	6/21/2010	5 to 6	--	--	--	--	--	15	--	--	16,800	--
	6/21/2010	10 to 11	--	--	--	--	--	<10	--	--	4,320	--
	6/21/2010	15 to 16	--	--	--	--	--	<10	--	--	2,000	--
	6/21/2010	20 to 21	--	--	--	--	--	--	--	--	2,360	--
SB-1	4/9/2012	4 to 5	--	--	--	--	--	2,570	--	--	17,100	--
	4/9/2012	14 to 15	--	--	--	--	--	301	--	--	4,060	--
SB-2	4/9/2012	24 to 25	--	--	--	--	--	292	--	--	1,400	--
	4/9/2012	4 to 5	--	--	--	--	--	10,160	--	--	20,900	--
	4/9/2012	14 to 15	--	--	--	--	--	141	--	--	16,200	--
SB-3	4/9/2012	24 to 25	--	--	--	--	--	261	--	--	4,650	--
	4/9/2012	4 to 5	--	--	--	--	--	3,930	--	--	16,300	--
	4/9/2012	9 to 10	--	--	--	--	--	706	--	--	13,900	--
SB-4	4/9/2012	19 to 20	--	--	--	--	--	291	--	--	3,040	--
	11/6/2018	0 to 1	<0.00810	<0.00419	<0.00552	<0.00611	<0.00419	<0.243	<7.56	<7.56	72.9 X	13.6
	11/6/2018	4 to 5	<0.00794	<0.00411	<0.00541	<0.00599	<0.00411	<0.238	<7.41	<7.41	1,280	11.7
	11/6/2018	9 to 10	<0.00893	<0.00462	<0.00609	<0.00674	<0.00462	<0.268	<7.47	<7.47	1,500	16.9
	11/6/2018	14 to 15	<0.00873	<0.00452	<0.00595	<0.00658	<0.00452	<0.262	<7.45	<7.45	1,120 J	17.2
	11/6/2018	19 to 20	<0.00837	<0.00433	<0.00570	<0.00631	<0.00433	<0.251	<7.50	<7.50	1,470	15.7
	11/6/2018	24 to 25	<0.00845	0.00561 J	<0.00576	<0.00637	0.00561 J	<0.253	<7.49	<7.49	1,210 J	16
	11/6/2018	0 to 1	<0.00879	<0.00455	<0.00599	<0.00663	<0.00455	<0.264	16.5 J	<7.45	21.2 J	15.5
	11/6/2018	4 to 5	<0.00845	<0.00437	<0.00576	<0.00637	<0.00437	<0.253	<7.49	<7.49	1,070	13.1
	11/6/2018	9 to 10	<0.00886	<0.00459	<0.00604	<0.00669	<0.00459	<0.266	<7.52	<7.52	656	13.2
SB-5	11/6/2018	14 to 15	<0.00825	<0.00427	<0.00562	<0.00622	<0.00427	<0.247	<7.54	<7.54	1,580	12.5
	11/6/2018	19 to 20	<0.00886	<0.00459	<0.00604	<0.00669	<0.00459	<0.266	<7.41	<7.41	1,720	13.1
	11/6/2018	24 to 25	<0.00851	<0.00441	<0.00580	<0.00642	<0.00441	<0.255	<7.47	<7.47	1,760	11.3
	11/6/2018	0 to 1	<0.00837	<0.00433	<0.00570	0.00741 J	0.00741 J	<0.251	<7.50	<7.50	25.5	8.9
	11/6/2018	4 to 5	<0.00902	<0.00467	<0.00615	<0.00681	<0.00467	<0.270	<7.53	<7.53	2,150	8.71
SB-6	11/6/2018	9 to 10	<0.00888	<0.00460	<0.00605	<0.00670	<0.00460	<0.266	<7.44	<7.44	745 XF	12.1
	11/6/2018	14 to 15	<0.00859	<0.00445	<0.00586	<0.00648	<0.00445	<0.258	<7.48	<7.48	2,280	8.71
	11/6/2018	19 to 20	<0.00888	<0.00460	<0.00605	<0.00670	<0.00460	<0.251	<7.44	<7.44	2,290	10.7
	11/6/2018	24 to 25	<0.00883	<0.00457	<0.00602	<0.00666	<0.00457	<0.265	20.1 J	<7.55	2,220	12.9
	11/6/2018	0 to 1	<0.00859	<0.00445	<0.00586	<0.00648	<0.00445	0.565 J	<7.49	<7.49	141	9.62
SB-7	11/6/2018	4 to 5	<0.00879	<0.00455	<0.00599	<0.00663	<0.00455	<0.264	<7.47	<7.47	2,520	9.95
	11/6/2018	9 to 10	<0.00781	<0.00404	<0.00532	<0.00589	<0.00404	<0.234	<7.53	<7.53	2,420	8.98
	11/6/2018	14 to 15	<0.00822	<0.00425	<0.00560	<0.00620	<0.00425	<0.246	<7.53	<7.53	1,930	8.67
	11/6/2018	19 to 20	<0.00803	<0.00416	<0.00547	<0.00606	<0.00416	<0.241	<7.43	<7.43	7,240	10.1
	11/6/2018	24 to 25	<0.00792	0.00525 J	<0.00539	<0.00597	0.00525 J	<0.237	<7.53	<7.53	8,940	11.3
SB-8	11/6/2018	0 to 1	<0.00789	<0.00408	<0.00538	<0.00595	<0.00408	<0.236	<7.53	<7.53	14.7 J	10.1
	11/6/2018	4 to 5	<0.00902	<0.00467	<0.00615	<0.00681	<0.00467	<0.270	<7.56	<7.56	197	6.47
	11/6/2018	9 to 10	<0.00866	<0.00448	0.0153 J	0.213	0.228	9.76	<7.54	<7.54	1,620	5.9
	11/6/2018	14 to 15	<0.00886	<0.00459	<0.00604	<0.00669	<0.00459	4.35	<7.54	<7.54	1,640	6.73
	11/6/2018	19 to 20	<0.00785	<0.00406	<0.00535	0.0503	0.503	1.98 J	<7.52	<7.52	1,630	11
SB-9	11/6/2018	24 to 25	<0.00900	0.00598 J	<0.00614	<0.00679	0.00598 J	1.13 J	<7.47	<7.47	1,570	9.75
	10/16/2019	0 to 1	0.000626	0.00137	0.00101	0.00112	0.0041260	0.0645	12.9 J	10.5 J	19500	4.6
	10/16/2019	4 to 5	0.000623	0.00136	0.00101	0.00112	0.004113	0.0654	7.69	7.69	3030	11.1
	10/16/2019	9 to 10	0.000616	0.00135	0.000998	0.00111	0.004074	0.0639	7.69	7.69	1180	28.6
	10/16/2019	14 to 15	0.00058	0.00127	0.000939	0.00104	0.003829	0.0634	7.55	7.55	2620	29.1
	10/16/2019	19 to 20	0.000627	0.00137	0.00102	0.00113	0.004147	0.0652	7.59	7.59	2750	12.2
SB-10	10/16/2019	24 to 25	0.0005577	0.00126	0.000934	0.00103	0.0037817	0.0631	7.5	7.5	1940	12
	10/16/2019	0 to 1	0.000586	0.00128	0.000948	0.00105	0.003864	0.0639	7.51	7.51	5.99	9.7
	10/16/2019	4 to 5	0.000607	0.00133	0.000983	0.00109	0.00401	0.0652	7.49	7.49	89.2	5.8
	10/16/2019	9 to 10	0.00061	0.00134	0.000988	0.00109	0.004028	0.0642	7.58	7.58	868	7.7
	10/16/2019	14 to 15	0.000608	0.00133	0.000985	0.00109	0.004013	0.0633	7.59	7.59	1010	26.8
	10/16/2019	19 to 20	0.00056	0.00123	0.000906	0.001	0.003696	0.064	7.67	7.67	1300	25.2

Table 1
Historical Soil Analytical Data
CEMC
Pardue Farms 27-12
Eddy County, New Mexico

MW-5	10/15/2019	14 to 15	0.000716	0.00157	0.00116	0.00128	0.004726	0.0635	35.1	35.1	494	5.9
	10/15/2019	19 to 20	0.000626	0.00137	0.00101	0.00112	0.004126	0.0645	34.3	34.3	388	1.8
	10/15/2019	24 to 25	0.000587	0.00128	0.00095	0.00105	0.003867	0.0631	34.7	34.7	617	6.7
	10/15/2019	29 to 30	0.000685	0.0015	0.00111	0.00123	0.004525	0.0641	33.1	33.1	360	13.6
	10/15/2019	34 to 35	0.000652	0.00143	0.00106	0.00117	0.004312	0.064	33	33	588	14.2
10/15/2019	39 to 40	0.0007	0.00153	0.00113	0.00126	0.00462	0.064	34.9	34.9	630	9.1	
MW-6	11/16/2020	0 to 1	<0.000625	<0.00137	<0.001010	<0.001120	<0.000625	<0.5720	8.73	59.6	59.7 J F1	1.8
	11/16/2020	1 to 2	<0.000694	<0.00152	<0.001120	<0.001240	<0.000694	<0.7290	10.5	40.3	44.4 J	14.4
	11/16/2020	2 to 3	<0.000685	<0.00150	<0.001110	<0.001230	<0.000685	<0.6540	<1.81	29.5	64.6 J	5.8
	11/16/2020	3 to 4	<0.0006	<0.00131	<0.000971	<0.001080	<0.000600	<0.7490	7.96 J	36.2	97.2 J	21.1
	11/16/2020	9 to 10	<0.000648	<0.00142	<0.001050	<0.001160	<0.000648	<0.6900	<1.87	24.6	82.8 J	8.8
	11/16/2020	14 to 15	<0.000605	<0.00132	<0.000979	<0.001080	<0.000605	<0.8620	<2.37	<6.94	477	28.4
	11/16/2020	19 to 20	<0.000557	<0.00122	<0.000901	<0.000998	<0.000557	<0.6760	<1.93	<5.65	1,230	11.6
	11/16/2020	24 to 25	<0.000623	<0.00136	<0.001010	<0.001120	<0.000623	<0.6560	24.2	123	920	15
	11/8/2021	0 to 1	0.000704 J	<0.00148	0.000957 J	0.00335 J	0.001661	0.0266 J	3.09	0.66	110	6.4
SB-12	11/8/2021	1 to 2	<0.000799	<0.00222	<0.00126	<0.00151	<0.000799	0.0324 J	< 2.18	<0.371	1,430	26.2
	11/8/2021	2 to 3	<0.000706	<0.00197	<0.00111	<0.00133	<0.000706	<0.0272	<2.02 J6	<0.344	2,100	20.4
	11/8/2021	3 to 4	<0.000663	<0.00185	<0.00105	<0.00125	<0.000663	0.0275 J	<1.95	<0.331	923	17.3
	11/8/2021	4 to 5	<0.000730	<0.00203	<0.00115	<0.00138	<0.000730	0.0423 B J	<2.06	<0.351	1,690	22
	11/8/2021	9 to 10	<0.000728	<0.00203	<0.00115	<0.00137	<0.000728	0.0417 B J	<2.06	<0.350	2,030	21.8
	11/8/2021	13 to 14	<0.000588	<0.00164	<0.000928	<0.00111	<0.000588	<0.0297 B J	4.36 J	0.717 J	1910 J5	11.5
	11/8/2021	0 to 1	<0.000625	<0.00174	<0.000986	<0.00118	<0.000625	0.0338 B J	2.26 J	2.44 J	<10.7	14.4
	11/8/2021	1 to 2	<0.000743	<0.00207	<0.00117	<0.00140	<0.000743	0.0360 B J	2.13 J	<0.355	431	22.8
	11/8/2021	2 to 3	<0.000800	<0.00223	<0.00126	<0.00151	<0.000800	0.0420 B J	<2.18	<0.371	831	26.2
SB-13	11/8/2021	3 to 4	<0.000807	<0.00225	<0.00127	<0.00152	<0.000807	0.0381 B J	<2.20	0.653 B J	3,070	26.7
	11/8/2021	4 to 5	<0.000663	<0.00185	<0.00105	<0.00125	<0.000663	0.0344 B J	<1.95	<0.331	904	17.3
	11/8/2021	9 to 10	<0.000726	<0.00202	<0.00115	<0.00137	<0.000726	<0.0277	<2.05	<0.350	1,490	21.6
	11/8/2021	13 to 14	<0.000664	<0.00185	<0.00105	<0.00125	<0.000664	<0.0263	<1.95	<0.332	1,990	17.4
	11/8/2021	0 to 1	<0.000656	<0.00183	<0.00104	<0.00124	<0.000656	<0.0261	2.06 J	6.08 B	11.8 J	16.8
	11/8/2021	1 to 2	<0.000737	<0.00205	<0.00116	<0.00139	<0.000737	<0.0279	<2.07	0.986 B J	12.3 J	22.3
	11/8/2021	2 to 3	<0.000639	<0.00178	<0.00101	<0.00120	<0.000639	<0.0257	<1.91	<0.324	<10.9	15.5
	11/8/2021	4 to 5	<0.000577	<0.00161	<0.000911	<0.00109	<0.000577	<0.0243	<1.80	<0.306	583	10.6
	11/8/2021	7 to 8	<0.000852	<0.00237	<0.00135	<0.00161	<0.000852	<0.0306	<2.27	<0.387	2,250	29.2
SB-15	11/8/2021	0 to 1	<0.000674	<0.00188	<0.00106	<0.00127	<0.000674	<0.0265	<1.97	0.782 B J	591	18.2
	11/8/2021	1 to 2	<0.000754	<0.00210	<0.00119	<0.00142	<0.000754	<0.0283	<2.10	0.626 B J	1,640	23.4
	11/8/2021	2 to 3	<0.000581	<0.00162	<0.000918	<0.00110	<0.000581	<0.0244	4.35 J	10.7 B	2,520	10.9
	11/8/2021	3 to 4	<0.000588	<0.00164	<0.000928	<0.00111	<0.000588	<0.0245	<1.82	0.766 B J	2,720 V	11.5
	11/8/2021	4 to 5	<0.000773	<0.00215	<0.00122	<0.00146	<0.000773	<0.0288	<2.14	<0.364	372	24.7
	11/8/2021	9 to 10	<0.000686	<0.00191	<0.00108	<0.00129	<0.000686	<0.0268	2.95 J	<0.338	1,940	18.9
	11/8/2021	14 to 15	<0.000687	<0.00191	<0.00108	<0.00129	<0.000687	<0.0268	51.5	5.28 B	1,460	19
	11/9/2021	0 to 1	<0.000661	<0.00184	<0.00104	<0.00125	<0.000661	<0.0262	2.85 J	7.54	32	17.2
	11/9/2021	1 to 2	<0.000767	<0.00214	<0.00121	<0.00145	<0.000767	<0.0287	29.3	43.5	1,000	24.3
SB-16	11/9/2021	2 to 3	<0.000685	<0.00191	<0.00108	<0.00129	<0.000685	<0.0267	10.5	10.8	6,900	18.9
	11/9/2021	3 to 4	<0.000828	<0.00231	<0.00131	<0.00156	<0.000828	<0.0301	3.71	2.98	4,010	27.8
	11/9/2021	4 to 5	<0.000827	<0.00230	<0.00130	<0.00156	<0.000827	<0.0300	<2.23	1.38 J	4,800	27.7
	11/9/2021	9 to 10	<0.000790	<0.00220	<0.00125	<0.00149	<0.000790	<0.0292	<2.17	0.767 J	2,260	25.6
	11/9/2021	0 to 1	<0.000558	<0.00155	<0.000880	<0.00105	<0.000558	0.0944 J V3	4.55	13.7	<10.1	8.9
SB-17	11/9/2021	1 to 2	<0.000633	<0.00176	<0.000998	<0.00119	<0.000633	0.0299 B J	3.57 J	9.07	<10.8	15
	11/9/2021	2 to 3	<0.000519	<0.00144	<0.000819	<0.000978	<0.000519	0.0505 B J	1.82 J	6.44	360	5.3
	11/9/2021	3 to 4	<0.000540	<0.00150	<0.000852	<0.00102	<0.000540	0.0240 B J	<1.74	7.51	1,590	7.2
	11/9/2021	4 to 5	<0.000783	0.0411 J	0.00193 J	0.00805 J	0.0411 J	0.0519 B J	<2.15	1.63 J	1,640	26.5
	11/9/2021	9 to 10	<0.000578	0.00187 J	<0.000912	0.00183 J	0.00187 J	<0.0243	<1.80	0.615 J	740	10.6
SB-18	11/9/2021	0 to 1	<0.000778	<0.00217	<0.00123	<0.00147	<0.000778	<0.0289	<2.14	3.26 J	24.9 J	24.9
	11/9/2021	1 to 2	<0.000721	<0.00201	<0.00114	<0.00136	<0.000721	0.0279 B J	<2.05	3.36 J	284	21.4
	11/9/2021	2 to 3	<0.000516	<0.00144	0.000814	<0.000972	<0.000516	<0.0228	<1.69	1.15 J	1,320	5
	11/9/2021	3 to 4	<0.000539	<0.00150	<0.000850	<0.00102	<0.000539	<0.0234	<1.73	0.929 J	1,780	7.1
	11/9/2021	4 to 5	<0.000752	<0.00209	<0.00119	<0.00142	<0.000752	0.0401 B J	<2.10	3.97 J	208 J3 J5	23.3
SB-19	11/9/2021	0 to 1	<0.000717	<0.00200	<0.00113	<0.00135	<0.000717	0.0288 B J	3.17 J	13.4	22.8 J	21.1
	11/9/2021	1 to 2	<0.000513	<0.00143	<0.000809	<0.000966	<0.000513	<0.0228	<1.69	8.68	15.1 J	4.6
	11/9/2021	2 to 3	<0.000516	<0.00144	<0.000814	<0.000972	<0.000516	<0.0228	<1.69	4.46	95	5
	11/9/2021	3 to 4	<0.000526	<0.00147	<0.000831	<0.000992	<0.000526	<0.0246	<1.71	6	338	5
	11/9/2021	4 to 5	<0.000561	<0.00156	<0.000866	<0.00102	<0.000561	0.0295 B J	<1.77	3.18 J	375	9.2
SB-20	11/9/2021	6 to 7	<0.000566	<0.00158	<0.000894	<0.00107	<0.000566	<0.0266 B J	<1.78	2.00 J	1,800	9.6
	11/9/2021	0 to 1	<0.000490	<0.00137	<0.000774	<0.000924	<0.000490	0.0296 B J	<1.65	8.13	<9.81	2.4
	11/9/2021	1 to 2	<0.000503	<0.00140	<0.000794	<0.000948	<0.000503	<0.0225	<1.67	3.14 J	9.58 J	3.7
	11/9/2021	2 to 3	<0.000603	<0.00168	<0.000952	<0.00114	<0.000603	<0.0249	<1.85	3.45 J	20	12.7
	11/9/2021	3 to 4	<0.000625	<0.00174	<0.000987	<0.00118	<0.000625	0.0291 B J	2.14 J	6.07	374	14.5
SB-21	11/9/2021	4 to 5	<0.000496	<0.00138	<0.000782	<0.000934	<0.000496	<0.0224	5.19	20.5	28	3
	11/9/2021	6 to 7	<0.000618	<0.00172	<0.000975	<0.00116	<0.000618	<0.0252	<1.87	0.902 J	406	13.9
	11/9/2021	0 to 1	<0.000642	<0.00179	<0.00101	<0.00121	<0.000642	<0.0258	3.08 J	12.8	14.0 J	15.8
	11/9/2021	1 to 2	<0.000533									

Table 1
Historical Soil Analytical Data
CEMC
Pardue Farms 27-12
Eddy County, New Mexico

SB-27	3/28/2023	2	0.000745 J	<0.00155	0.00123 J	<0.00105	0.001975	<0.0238	26.2	2.20 B J	370	--
	3/28/2023	4	<0.000520 J3	<0.00145	<0.000821 J3	<0.000981 J3	<0.000520	<0.0229	<1.70	3.83 J	1,940	--
	3/28/2023	9 to 10	<0.000552	<0.00154	<0.000872	<0.00104	<0.000552	<0.0237	<1.76	1.51 B J	2,660	--
	3/28/2023	14 to 15	<0.000572	<0.00159	<0.000903	<0.00108	<0.000572	<0.0241	<1.79	0.914 B J	2,770	--
	3/28/2023	19 to 20	<0.000569	<0.00158	<0.000898	<0.00107	<0.000569	<0.0241	<1.79	0.500 B J	1,920	--
	3/28/2023	23 to 24	<0.000551	<0.00153	<0.000869	<0.00104	<0.000551	<0.0236	<1.75	1.86 B J	1,960	--
	3/28/2023	44 to 45	<0.000758	<0.00211	<0.00120	<0.00143	<0.000758	<0.0284	<2.11	<0.359	396	--
	3/28/2023	49 to 50	<0.000678	<0.00189	<0.00107	<0.00128	<0.000678	<0.0266	<1.97	<0.336	396	--
SB-28	3/28/2023	53 to 54	<0.000662	<0.00184	<0.00105	<0.00125	<0.000662	<0.0262	<1.95	<0.331	299	--
	3/28/2023	0 to 1	<0.000497	<0.00138	<0.000785	<0.000937	<0.000497	<0.0224	1.79 J	11.1	27.6	--
	3/28/2023	2	<0.000493	<0.00137	<0.000778	<0.000929	<0.000493	<0.0223	1.79 J	10.7	97.5	--
	3/28/2023	4	<0.000538	<0.00150	<0.000848	<0.00101	<0.000538	<0.0233	<1.73	5.44	1,900	--
	3/28/2023	9 to 10	<0.000772	<0.00215	<0.00122	<0.00146	<0.000772	<0.0288	<2.13	<0.363	718	--
	3/28/2023	14 to 15	<0.000544	<0.00151	<0.000859	<0.00103	<0.000544	<0.0235	<1.74	1.92 J	2,870	--
	3/28/2023	19 to 20	<0.000563	<0.00157	<0.000889	<0.00106	<0.000563	<0.0239	<1.78	2.15 J	1,520	--
	3/28/2023	23 to 24	<0.000543	<0.00151	<0.000857	<0.00102	<0.000543	<0.0235	<1.74	2.10 J	951	--
MW-7	3/28/2023	0 to 1	<0.000569	<0.00158	<0.000898	<0.00107	<0.000569	0.0258 J	<1.78	0.307 J	<10.6	--
	3/28/2023	2	0.00116 J	0.00701	0.00113 J	0.00507 J	0.01437	<0.0257	<1.90	0.960 J	<11.0	--
	3/28/2023	3 to 4	<0.000645	<0.00180	<0.00102	<0.00122	<0.000645	<0.0258	<1.92	<0.326	76.3	--
	3/28/2023	9 to 10	<0.000499	<0.00139	<0.000787	<0.000940	<0.000499	<0.0224	<1.66	<0.283	75.8	--
	3/28/2023	14 to 15	<0.000619	<0.00172	<0.000977	<0.00117	<0.000619	<0.0252	<1.87	<0.319	22.6 J	--
	3/28/2023	19 to 20	<0.000577	<0.00161	<0.000910	<0.00109	<0.000577	<0.0242	<1.80	<0.306	26.2	--
	3/28/2023	24 to 25	<0.000564	<0.00157	<0.000890	<0.00106	<0.000564	<0.0239	<1.78	<0.302	22.0 J	--
	3/28/2023	29 to 30	<0.000601	<0.00167	<0.000949	<0.00113	<0.000601	<0.0248	<1.84	1.91 J	37.6	--
MW-8	3/28/2023	34 to 35	<0.000700	<0.00195	<0.00111	<0.00132	<0.000700	<0.0271	<2.01	<0.342	265	--
	3/28/2023	39 to 40	<0.000771	<0.00215	<0.00122	<0.00145	<0.000771	<0.0287	<2.13	<0.363	224	--
	3/27/2023	0 to 1	<0.000564	<0.00157	0.00278 J	0.00896	0.01174	0.0348 J	5.92	27.5	76.5	--
	3/27/2023	2	<0.000631	<0.00176	<0.000996	0.00459 J	0.00459	0.0375 J	<1.89	3.49 J	238	--
	3/27/2023	4	<0.000595	<0.00166	0.00261 J	0.00240 J	0.00501	0.0302 J	2.15 J	3.56 B J	1,650	--
	3/27/2023	9 to 10	<0.000698	<0.00194	<0.00110	0.00266 J	0.00266	<0.0270	<2.01	0.928 B J	998	--
	3/27/2023	14 to 15	<0.000533	<0.00149	0.00175 J	0.00286 J	0.00461	0.0288 J	1.86 J	2.72 B J	962	--
	3/27/2023	19 to 20	<0.000795	<0.00221	0.00180 J	0.00340 J	0.0052	0.0466 J	<2.17	1.20 B J	931	--
MW-8	3/27/2023	24 to 25	<0.000661	0.00202 J	0.00160 J	0.00286 J	0.00648	0.0279 J	3.05 J	5.54	983	--
	3/27/2023	29 to 30	<0.000865	0.00287 J	0.00321 J	0.00358 J	0.00966	<0.0309	2.45 J	3.98 B J	960	--
	3/27/2023	34 to 35	<0.00221	<0.00288	<0.00163	0.00334 J	0.00334	0.0348	6.56	9.80	752	--
	3/27/2023	39 to 40	<0.000790	<0.00220	0.00140 J	0.00181 J	0.00321	0.0292 J	2.26 J	2.97 B J	817	--
	3/27/2023	44 to 45	<0.000837	0.00235 J	0.00177 J	0.00270 J	0.00682	<0.0302	6.91	7.07	595	--
	3/27/2023	49 to 50	<0.000792	<0.00221	<0.00125	0.00305 J	0.00305	<0.0292	<2.17	2.26 B J	790	--
	3/27/2023	54 to 55	<0.000789	0.00284 J	<0.00125	0.00423 J	0.00707	<0.0292	5.72	8.72	674	--

Notes

Value	Analytical value is greater than or equal to NMAC closure criteria
%	Percent
mg/Kg	Milligram(s) per kilogram
<	Analyte was not detected above the specified method reporting limit
ft bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
TPH-GRO	Total Petroleum Hydrocarbons as Gasoline Range Organics
TPH-DRO	Total Petroleum Hydrocarbons as Diesel Range Organics
TPH-ORO	Total Petroleum Hydrocarbons as Oil Range Organics
NMAC	New Mexico Administrative Code
MS/MSD	Matrix spike/matrix spike duplicate

Lab Qualifiers:

D	The sample(s) were duplicated due to targets detected over the highest point of the calibration curve, or due to matrix interference
J	The target analyte was positively identified below the quantitation limit and above the detection limit
X	MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix/chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration

Notes:

(a) Title 19, Chapter 15 of the NMAC for Natural Resources and Wildlife, Oil and Gas, and Releases, 19.15.29 NMAC. August





SITE DESCRIPTION AND BACKGROUND

The following site description and background section provides an overview of the site location and regional setting including geology, hydrogeology, nearby drinking water wells, surface water, and climate.

Site Location and Description

The Site is located approximately one mile southeast of Loving, New Mexico along the northeast quarter of the southwest quarter of Section 27, Township 23-South, Range 28-East. The properties surface ownership is privately owned and Chevron Midcontinent, L.P. hold the oil and gas lease.

The Site is located on the western edge of the Permian Basin, a 75,000-square-mile area in Texas and New Mexico that is populated by numerous oil and gas production wells. In New Mexico, the Permian Basin extends to Roosevelt County to the North, Chaves and Eddy County to the west, and to Texas to the south.

Nearby Water Wells and Surface Water

Based on review of satellite imagery, the Pecos River is located approximately 2.5 miles due northeast of the site. The southwestern edge of a salt-lake is located approximately 3.25 miles to the northeast. (GoogleEarth 2018). In November 2018, Arcadis field staff verified that there are no surface-water bodies located within 1,000 feet of the Site.

In January 2019, Arcadis reviewed information obtained from the New Mexico Office of the State Engineer (NMOSE) online database (NMOSE 2019), which indicated there is one water supply well located approximately 310 feet to the southwest from the Pardue Farms 27-12 oil well. The primary use for this water well is for domestic use and livestock watering. The NMOSE online database identified 419 water-supply wells within a 5-mile radius of the site (NMOSE 2019).

Climate

Monthly average temperatures near the Site vary from a minimum of 33.1 degrees Fahrenheit (°F) in February to a maximum of 95.9°F in June (Western Regional Climate Center [WRCC] Carlsbad Cavern City Airport, New Mexico [291475] weather station). Average annual precipitation recorded for the area of the Site from the available WRCC period of record between 1930 and 2016 was approximately 12.84 inches per year (WRCC 2019a).

Due to the arid climate, the Site experiences low precipitation and high evaporation rates. Average annual evaporation from the available WRCC period of record between 1914 and 2005 was approximately 87.68 inches per year (WRCC 2019b).

Regional Geology and Hydrogeology

The Site elevation is approximately 3,070 feet above mean sea level (ft amsl) and is located in the Paleozoic Era Delaware Basin with the Pecos River and the Grame Ridge to the east, the Guadalupe Mountains to the west, and the Capitan Reef limestone bed to the north (Bachman 1980). The Delaware Basin is overlain with



evaporites, primarily gypsum and halite, from the Castile and Salado Formations, followed by the carbonate, evaporite, and clastic sediments of the Rustler Formation, and lastly, by the red beds of the Dewey Lake Formation. The Delaware Basin underwent extensive erosion and dissolution throughout the Mesozoic and Cenozoic Eras and resulted in an ancient karst plain that was subsequently filled in by alluvial deposits known as the Pecos Valley Alluvium (TWBD 2019). The Pecos Valley Alluvium is predominantly composed of surficial deposits of transmissive sands and gravels mixed with low-permeability clays, primarily from the Pecos River (Barrol 2004).

The main source of fresh groundwater in the area comes from the Pecos Valley Alluvium Aquifer which has a thickness of approximately 100 to 200 feet with a saturated thickness of up to 150 feet (Barrol 2004). Average depth to water based on the current wells in the vicinity of the Site is approximately 54 feet below ground surface (bgs) (NMOSE 2019).

Water-supply wells are completed in the Pecos Valley Alluvium Aquifer which consists primarily of Quaternary alluvial and eolian sediments (TWBD 2010) as well as surficial deposits from the Pecos River (Barrol 2004). The aquifer is primarily recharged by the Pecos River as well as "on-farm return flow" water. The regional groundwater flow direction is generally towards the east-southeast (Barrol 2004).

INITIAL RELEASE RESPONSE

A release, initially estimated to be less than 5 bbls of oil and produced water, occurred at the Site in May 2010 due to a pinhole caused by internal corrosion located on the top side of a subsurface flowline. Chevron personnel from the Mid-Continent Business Unit (MCBU) stopped the release and conducted initial response activities. Chevron MCBU personnel subcontracted a third-party company to excavate the visually affected soil. Excavation activities were conducted in June 2010 during which Chevron MCBU personnel noted the release was greater than 5 bbls. Two boreholes, BH-1 and BH-2, (total depths of 26 feet bgs and 21 feet bgs, respectively), were installed and discrete soil samples were collected. After collecting the soil samples, the excavated area was reportedly backfilled with imported soil. Pursuant to New Mexico Oil Conservation Division (NMOCD) requirements (NMOCD 1993), Chevron MCBU submitted a Notification of Release and Correction (Form C-141) to the NMOCD, detailing the location, volume of release, and initial and planned cleanup efforts for the site.

Soil and groundwater assessment activities were conducted in April 2012 by Conestoga-Rovers & Associated (CRA). A total of three soil borings (SB-1, SB-2, and SB-3) and three groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed on April 9-10, 2012.

2018 SOIL INVESTIGATION

In November 2018, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. Soil boring locations were selected based on the results of previous soil sampling activities completed at the Site in April 2012, locations of pipelines and other equipment at the Site, and the extent of the release as documented by Chevron MCBU personnel during the initial response activities.

To evaluate the potential extent of impacts to soil at the Site, Arcadis advanced the five soil borings (SB-1 through SB-5) on November 11, 2018.



Prior to conducting drilling activities, each boring location was cleared for subsurface utilities with an air knife. The air knife could not be advanced more than 2 to 3 inches bgs due to the presence of a thick caliche layer. Each soil boring was then advanced to a total depth of approximately 25 feet bgs using air rotary drilling technology.

Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). Arcadis used Quantab® field screening methods to quantify chloride concentrations in soil prior to sample collection (Boyer 2004). Field personnel recorded Quantab® readings, soil types, and other pertinent geologic data on boring logs. No staining or elevated photo ionizing device (PID) readings were observed. Lithologic data indicated the subsurface material consisted primarily of gravelly sand clays from approximately 0 to 10 feet bgs followed by sandy caliche layers from approximately 10 to 25 feet bgs. Six soil samples were collected from each boring location beginning at a depth of 0-1' foot bgs and continuing at 5- foot intervals from 5 to 25 feet bgs. A total of 30 samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and submitted under appropriate chain of custody protocols to Xenco Laboratories in Lubbock, TX. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8021B
- Total petroleum hydrocarbons (TPH) – diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B
- Moisture content by SM 2540B

Following soil sample collection, the boreholes were filled with soil cuttings from total depth to ground surface. The ground surface was restored to match the surrounding conditions.

Soil Sample Results

The analytical data from the soil samples collected in November 2018 were compared to the closure criteria (CC) outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) concerning natural resources and wildlife, oil and gas, and releases which became effective on August 14, 2018. The analytical results for the 30 soil assessment samples are summarized below:

- Benzene was not detected above the laboratory reporting limit in any of the 30 soil samples
- Toluene was detected in three soil samples collected at 24 to 25 feet bgs with estimated concentrations of 0.00561 milligrams per kilogram (mg/kg) (SB-4), 0.00525 mg/kg (SB-7), and 0.00598 mg/kg (SB-8)
- Ethylbenzene was detected in one soil sample collected from SB-8 at 9 to 10 feet bgs with an estimated concentration of 0.0153 mg/kg
- Total Xylenes were detected in three of the 30 soil samples collected with concentrations ranging from an estimated 0.00741 mg/kg at SB-6 (0 to 1-foot bgs) to 0.213 mg/kg at SB-8 (9 to 10 feet bgs)
- Total BTEX compounds were detected in six of the 30 soil samples collected with concentrations ranging from an estimated 0.00525 mg/kg at SB-7 (24 to 25 feet bgs) to 0.228 mg/kg at SB-8 (9 to 10 feet bgs). Total BTEX concentrations did not exceed the 2018 NMAC CC of 50 mg/kg.
- Chloride was detected in each of the 30 soil samples collected from the Site with concentrations ranging from an estimated 14.7 mg/kg at SB-8 (0 to 1-foot bgs) to 8,940 mg/kg at SB-7 (24 to 25 feet bgs). Chloride concentrations exceeded the 2018 NMAC CC of 600 mg/kg in each of the samples collected from below four feet bgs at each soil boring location



- TPH-GRO was detected in five of the 30 soil samples collected with concentrations ranging from an estimated 0.565 mg/kg at SB-7 (2 to 3 feet bgs) to 9.76 mg/kg at SB-8 (9 to 10 feet bgs)
- TPH-DRO was detected in two of the 30 soil samples collected with estimated concentrations of 16.5 mg/kg at SB-5 (0 to 1-foot bgs) to 20.1 mg/kg at SB-6 (24 to 25 feet bgs)
- TPH-ORO was not detected above the laboratory reporting limit in any of the 30 soil samples.

The 2018 NMAC CC for total TPH compound (summation of ORO, GRO, and DRO) concentrations is 100 mg/kg for a site with groundwater less than 50 feet bgs. Total TPH concentrations did not exceed the CC in any of the 30 soil samples collected during the 2018 soil investigation.

2018 GROUNDWATER ASSESSMENT

Monitoring Well Installation and Groundwater Sampling

Soil and groundwater assessments conducted by CRA in April 2012 suggested potential impacts near groundwater at Pardue 27-12. Arcadis installed temporary groundwater monitoring well MW-4 on November 5, 2018. This temporary monitoring well was drilled southwest from the release area to confirm background concentrations in the aquifer and evaluate the potential impact of groundwater.

The monitoring well location was hand cleared using air knife to a minimum depth of 8 feet bgs and was advanced to a total of 58 feet bgs using air rotary drilling technology. The monitoring well was approved by the NMOSE for construction within the open borehole using nominal 4-inch outside diameter (OD) schedule 40 poly vinyl chloride (PVC) casing. The screened interval extended across the saturated thickness of the aquifer (18 feet to 58 feet bgs) and was constructed of 0.10-inch machine-slotted PVC casing. Depth to groundwater was measured following installation at approximately 20.50 feet bgs.

Soil was continuously logged for lithologic characteristics according to the USCS. After the temporary well installation and development, one groundwater sample and one duplicate were collected from the newly installed well in laboratory-supplied containers and submitted under appropriate chain of custody protocols to Xenco for the analysis of the following:

- BTEX by EPA Method 8021B
- TPH - GRO, DRO, ORO by EPA Method 8015M
- Chloride by EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method 2540C

MW-4 was plugged using 3/8-inch hydrated bentonite chips to approximately 0.5-foot bgs. The ground surface was restored to match the surrounding conditions. Soil cuttings were transported offsite to R360 Environmental Solutions in Hobbs, NM for disposal in accordance with state and federal regulations on December 11, 2018.

Groundwater Sample Results

- Groundwater analytical results were compared the Human Health Standards outlined in Title 20, Chapter 6, Part 2 (20.6.2) of the NMAC concerning environmental protection, water quality, ground and surface



water protection which became effective on December 1, 1995. The analytical results for the groundwater sample collected from MW-4 in November 2018 are summarized below.

- Chloride was detected at a concentration of 3,200 milligrams per liter (mg/L) in the groundwater sample collected from MW-4 which exceeded the NMAC human health standard value of 250 mg/L.
- BTEX and TPH compounds were not detected above the laboratory reporting limit in the groundwater sample which is below the 2018 NMAC human health standards. Total dissolved solids were detected at a concentration of 5,400 mg/L which is above the 2018 NMAC human health standard value of 1,000 mg/L.

2019 SOIL INVESTIGATION

In October 2019, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. Soil boring locations were selected based on the results of previous soil sampling activities completed at the Site in April 2012 and November 2018, locations of pipelines and other equipment at the Site, and the extent of the release as documented by Chevron MCBU personnel during the initial response activities. To evaluate the potential extent of impacts to soil at the Site, Arcadis advanced three shallow soil borings (SB-9 through SB-11) and one temporary monitoring well (MW-5) on October 15 through 16, 2019.

Prior to conducting drilling activities, each boring location was cleared for subsurface utilities with an air knife. Each soil boring was then advanced to a total depth of approximately 25 feet bgs using air rotary drilling technology, and temporary monitoring well MW-5 was advanced to a total depth of 45 feet bgs. Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). No staining or elevated (<3.0 ppm) photo ionizing device (PID) readings were observed. Lithologic data indicated the subsurface material consisted primarily of gravely sand clays from approximately 0 to 10 feet bgs followed by sandy caliche layers from approximately 10 to 25 feet bgs, and clayey silt layers from 26 to 45 feet bgs. Six soil samples were collected from each boring location, beginning at a depth of 0-1' foot bgs and continuing at 5- foot intervals from 5 to 25 feet bgs, and nine soil samples were collected from temporary monitoring well MW-5, beginning at a depth of 0-1' foot bgs and continuing at 5- foot intervals from 5 to 40 feet bgs. A total of 27 samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and were shipped by Fed-Ex priority overnight to Eurofins TestAmerica analytical laboratory under chain-of-custody protocol. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8260B
- Total petroleum hydrocarbons (TPH) – diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B

Following soil sample collection, the boreholes were filled with soil cuttings from total depth to ground surface. The ground surface was restored to match the surrounding conditions. Temporary monitoring well MW-5 was drilled via Air Rotary drilling technology to a total depth of 57.43 ft bgs and was constructed of 2-inch diameter polyvinyl chloride (PVC) with 10 feet of 0.010-inch slotted screen from 37.43 to 47.43 ft bgs. MW-5 was completed with a 2-foot PVC casing above land surface. MW-5 was developed by over pumping the well. Soil cuttings and development water produced during the installation of temporary well MW-5 were drummed and transported to R360 Halfway, a select for use facility, for disposal. Temporary monitoring well MW-5 was plugged in accordance with the approved well application and plugging plan of operations under C-4351 POD-1, presented in Appendix C of the 2019 Site Assessment Report.



Soil Sample Results

The analytical data from the soil samples collected in October 2019 were compared to the closure criteria (CC) outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) concerning natural resources and wildlife, oil and gas, and releases which became effective on August 14, 2018. The analytical results for the 27 soil assessment samples are summarized below:

- BTEX concentrations were reported below the NMAC standard of 50 milligrams per kilogram (mg/Kg) at all sample locations
- TPH concentrations were reported below the NMAC standard of 100 mg/Kg at all sample locations. The 2019 NMAC CC for total TPH compound (summation of ORO, GRO, and DRO) concentrations is 100 mg/kg for a site with groundwater less than 50 feet bgs.
- Chloride concentrations exceeded the NMAC standard of 600 mg/Kg in;
 - o All (six) sample intervals collected at SB-9: 0 – 1 ft bgs: 19,500 mg/Kg, 4 – 5 ft bgs: 3,030 mg/Kg
 - o 9 – 10 ft bgs: 1,180 mg/Kg, 14 – 15 ft bgs: 2,620 mg/Kg, 19 – 20 ft bgs: 2,750 mg/Kg, 24 – 25 ft bgs: 1,940 mg/Kg
 - o Four samples collected from SB-10: 9 – 10 ft bgs: 868 mg/Kg, 14 – 15 ft bgs: 1,010 mg/Kg, 19 – 20 ft bgs: 1,300 mg/Kg, 24 – 25 ft bgs: 1,340 mg/kg
 - o Three samples collected from SB-11: 9 – 10 ft bgs: 1,400 mg/Kg, 19 – 20 ft bgs: 616 mg/Kg, 24 – 25 ft bgs: 1,200 mg/Kg
 - o Two sample intervals collected from MW-5: 24 – 25 ft bgs: 617 mg/Kg, 39 – 40 ft bgs: 630 mg/Kg

2019 GROUNDWATER ASSESSMENT

Temporary Monitoring Well Installation and Groundwater Sampling

Soil and groundwater assessments conducted by CRA in April 2012 and by Arcadis in 2018 suggested potential impacts near groundwater at Pardue 27-12. Arcadis installed temporary groundwater monitoring well MW-5 on October 15, 2019. This temporary monitoring well was drilled southwest from the release area to confirm background concentrations in the aquifer and evaluate the potential impact of groundwater.

Groundwater at the Site was monitored in 2019 from a network of three monitoring wells (MW-1 through MW-3) and one temporary monitoring well (MW-5). Arcadis gauged and sampled monitoring wells MW-1, MW-2 and MW-3 in June 2019, and MW-5 in October 2019. All samples were collected via low flow purge methodology. Samples collected at MW-1, MW-2 and MW-3 were analyzed for chloride by EPA Method 300; the sample from temporary monitoring well MW-5 was analyzed for:

- BTEX by EPA 8260B
- TPH- GRO, DRO, ORO by EPA 8105B
- Chloride by EPA 300
- Total Dissolved Solids by Method 9056A



Groundwater Sample Results

Groundwater analytical results were compared the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards for MW-1 through MW-3 in June 2019. Groundwater analytical results for chloride, BTEX (benzene, toluene, ethylbenzene, and total xylenes), and TDS (total dissolved solids) were compared to the NMWQCC Groundwater standards for MW-5 in October 2019. The analytical results for the groundwater sample collected from MW-1 through MW-3 in June 2019 and MW-5 in October 2019 are summarized below.

- Chloride concentrations exceeded the NMWQCC standard of 250 milligrams per liter (mg/L) in all wells sampled in June 2019:
 - o MW-1: 4,560 mg/L
 - o MW-2: 5,950 mg/L
 - o MW-3: 4,650 mg/L
- Chloride concentrations exceeded the NMWQCC standard of 250 mg/L in MW-5 at a concentration of 2,180 mg/L in October 2019.
- BTEX were reported below the NMWQCC standard of 0.01, 0.75, 0.75 and 0.62 mg/L, respectively, in MW-5 in October 2019.
- TDS concentrations exceeded the NMWQCC standard of 1,000 mg/L at temporary monitoring well MW-5 during October 2019 at a concentration of 5,910 mg/L.

2020 SOIL INVESTIGATION

In November 2020, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. A monitoring well location (MW-6) was selected based on the results of previous soil sampling activities completed at the Site in April 2012, November 2018, and October 2019, locations of pipelines and other equipment at the Site, and the extent of the release as documented by Chevron MCBU personnel during the initial response activities. To evaluate the potential extent of impacts to soil at the Site, Arcadis advanced a single monitoring well (MW-6) on November 16, 2020.

Prior to conducting drilling activities, the boring location was cleared for subsurface utilities with an air knife. The boring was then advanced to a total depth of approximately 60 feet bgs using air rotary drilling technology. Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). Elevated (<3.0 ppm) photo ionizing device (PID) readings were observed in the soil cuttings from 2-25 feet bgs. No staining as observed. Lithologic data indicated the subsurface material consisted primarily of silty and gravelly sands from approximately 0 to 9 feet bgs followed by alternating sand and clay layers from approximately 9 to 60 feet bgs, with the exception of a sandy gravel bed from 50-55 ft bgs. Eight soil samples were collected from the boring, beginning at a depth of 0-1' foot bgs and every 1 foot to 4 ft bgs, and every 5 ft from 9 to 25 feet bgs. Samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and were shipped by Fed-Ex priority overnight to Eurofins TestAmerica analytical laboratory under chain-of-custody protocol. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8260B



- Total petroleum hydrocarbons (TPH) – diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B
- Monitoring well MW-6 was completed at a depth of 58.75 ft bgs and was constructed of 2-inch diameter polyvinyl chloride (PVC) with 35 feet of 0.010 inch slotted screen from 23.75 to 58.75 ft bgs. MW-6 was completed with a flush-mount vault. MW-6 was developed by over pumping the well. Soil cuttings and development water produced during the installation of temporary well MW-6 were drummed and transported to R360 Halfway, a select for use facility, for disposal.

Soil Sample Results

Soil analytical results were compared to the closure criteria outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) standards for chloride, BTEX and (TPH). Soil sample analytical results from the November 2020 soil investigation are summarized below:

- BTEX concentrations were reported below the NMAC standard of 50 milligrams per kilogram (mg/Kg) at all sample locations
- TPH concentrations were reported below the NMAC standard of 100 mg/kg at all sample locations.
- Chloride concentrations exceeded the NMAC standard of 600 milligrams per kilogram (mg/kg) in two sample intervals collected during the advancement of MW-6:
 - o 19 – 20 ft bgs: 1,230 mg/kg
 - o 24 – 25 ft bgs: 920 mg/kg

2020 GROUNDWATER ASSESSMENT

Monitoring Well Installation and Groundwater Sampling

Soil and groundwater assessments conducted by CRA in April 2012 and by Arcadis in 2018, and 2019 suggested potential impacts near groundwater at Pardue 27-12. Arcadis installed groundwater monitoring well MW-6 on November 16, 2019.

Groundwater at the Site was monitored in 2020 from a network of 3 monitoring wells (MW-1 through MW-3) and one newly installed monitoring well (MW-6). Arcadis gauged and sampled monitoring wells MW-1 through MW-3 and MW-6, in November 2020. All samples were collected via low flow purge methodology. Samples were analyzed for the following:

- BTEX by USEPA 8260C
- TPH- GRO by USEPA 8105B
- TPH- DRO, ORO by USEPA 8015D
- Chloride by USEPA 300
- Total Dissolved Solids by Method 2540 C-1997



Groundwater Sample Results

Groundwater analytical results were compared the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards for MW-1 through MW-3, and MW-6 in November 2020. Groundwater analytical results for chloride, BTEX (benzene, toluene, ethylbenzene, and total xylenes), and TDS (total dissolved solids) were compared to the NMWQCC Groundwater standards in November 2020. The analytical results for the groundwater sample collected from MW-1 through MW-3 and MW-6 are summarized below:

- Chloride concentrations exceeded the NMWQCC standard of 250 milligrams per liter (mg/L) in four wells sampled during the November 2020 groundwater investigation. Chloride analytical results are as follows:
 - o MW-1: 9,880 mg/L
 - o MW-2: 6,580 mg/L
 - o MW-3: 6,680 mg/L
 - o MW-6: 10,800 mg/L
- BTEX were reported below the NMWQCC standard of 0.01, 0.75, 0.75 and 0.62 mg/L, respectively in all wells sampled during the November 2020 groundwater investigation.
- TDS concentrations exceeded the NMWQCC standard of 1,000 mg/L in four wells sampled during the November 2020 groundwater investigation. TDS analytical results are as follows:
 - o MW-1: 14,800 mg/L
 - o MW-2: 13,400 mg/L
 - o MW-3: 14,100 mg/L
 - o MW-6: 18,800 mg/L

2021 SOIL INVESTIGATION

In November 2021, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. Soil boring locations were selected based on the results of previous soil sampling activities completed at the Site in November 2020, locations of pipelines and other equipment at the Site, and the extent of the release as documented by Chevron MCBU personnel during the initial response activities. To evaluate the potential extent of impacts to soil at the Site, Arcadis advanced twelve soil borings (SB-12 through SB-23) on November 8 through 9, 2021.

Prior to conducting drilling activities, the boring location was cleared for subsurface utilities with an air knife. The borings were then advanced to a total depth of approximately 4 – 15 feet bgs using air rotary drilling technology. Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). Elevated (<3.0 ppm) photo ionizing device (PID) readings were observed in the soil cuttings from 0-16 feet bgs. No staining as observed. Lithologic data indicated the subsurface material consisted primarily of silty sand from 0 to 2 feet bgs, followed by alternating layers of sandy clay and silty sand from approximately 2 to 16 feet bgs. Four to seven soil samples were collected from the borings, beginning at a depth of 0-1' foot bgs and every 1 foot to 14 ft bgs, with the exception of some sample intervals. Samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and were shipped by Fed-Ex to Pace Analytica analytical laboratory under chain-of-custody protocol. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300



- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by USEPA Method 8260B
- Total petroleum hydrocarbons (TPH) – diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B

Following soil sample collection, the boreholes were filled with soil cuttings from total depth to ground surface. The ground surface was restored to match the surrounding conditions. Soil cuttings were drummed and transported to R360 Halfway, a select for use facility, for disposal.

Soil Sample Results

Soil analytical results were compared to the closure criteria outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) standards for chloride, BTEX and (TPH). Soil sample analytical results from the November 2021 soil investigation are summarized below:

- BTEX concentrations were reported below the NMAC standard of 50 milligrams per kilogram (mg/Kg) at all sample locations
- TPH concentrations were reported below the NMAC standard of 100 mg/kg at all sample locations.
- Chloride concentrations exceeded the NMAC standard of 600 mg/Kg in;
 - o Six samples collected from SB-12: 1 – 2 ft bgs: 1,430 mg/Kg, 2 – 3 ft bgs: 2,100 mg/Kg, 3 – 4 ft bgs: 923 mg/Kg, 4 – 5 ft bgs: 1,690 mg/Kg, 9 – 10 ft bgs: 2,030 mg/Kg, and 13 – 14 ft bgs: 1910 mg/Kg
 - o Five samples collected from SB-13: 2 – 3 ft bgs: 831 mg/Kg, 3 – 4 ft bgs: 3,070 mg/Kg, 4 – 5 ft bgs: 904 mg/Kg, 9 – 10 ft bgs: 1,490 mg/Kg, and 13 – 14 ft bgs: 1,990 mg/Kg
 - o One sample collected from SB-14: 7 – 8 ft bgs: 2,250 mg/Kg
 - o Five samples collected from SB-15: 1 – 2 ft bgs: 1,640 mg/Kg, 2 – 3 ft bgs: 2,520 mg/Kg, 3 – 4 ft bgs: 2,720 mg/Kg, 9 – 10 ft bgs: 1,940 mg/Kg, and 14 – 15 ft bgs: 1,460 mg/Kg
 - o Five samples collected from SB-16: 1 – 2 ft bgs: 1,000 mg/Kg, 2 – 3 ft bgs: 6,900 mg/Kg, 3 – 4 ft bgs: 4,010 mg/Kg, 4 – 5 ft bgs: 4,800 mg/Kg, and 9 – 10 ft bgs: 2,260 mg/Kg
 - o Two samples collected from SB-17: 3 – 4 ft bgs: 1,590 mg/Kg and 4 – 5 ft bgs: 1,640 mg/Kg
 - o Two samples collected from SB-18: 2 – 3 ft bgs: 1,320 mg/Kg and 3 – 4 ft bgs: 1,780 mg/Kg
 - o One sample collected from SB-19: 6 – 7 ft bgs: 1,800 mg/Kg

2021 GROUNDWATER ASSESSMENT

Groundwater Sample Results

Groundwater analytical results were compared the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards for MW-1 through MW-3, and MW-6 in June and December 2021. Groundwater analytical results for chloride, BTEX (benzene, toluene, ethylbenzene, and total xylenes), and TDS (total dissolved solids) were compared to the NMWQCC Groundwater standards in June and December 2021. The analytical results for the groundwater sample collected from MW-1 through MW-3 and MW-6 are summarized below:

- Chloride concentrations exceeded the NNWQCC standards of 250 milligrams per liter (mg/L) in 4 wells sampled during the June 2021 groundwater investigation. Chloride analytical results are as follows:
- o MW-1: 7,210 mg/L



- o MW-2: 5,450 mg/L
- o MW-3: 6,520 mg/L
- o MW-6: 8,230 mg/L

Chloride concentrations exceeded the NMWQCC standard of 250 milligrams per liter (mg/L) in four wells sampled during the December 2021 groundwater investigation. Chloride analytical results are as follows:

- o MW-1: 8,120 mg/L
- o MW-2: 5,990 mg/L
- o MW-3: 6,940 mg/L
- o MW-6: 9,730 mg/L

BTEX were reported below the NMWQCC standard of 0.01, 0.75, 0.75 and 0.62 mg/L, respectively in all wells sampled during the June and December 2021 groundwater investigation.

TDS concentrations exceeded the NMWQCC standard of 1,000 mg/L in four wells sampled during the June 2021 groundwater investigation. TDS analytical results are as follows:

- o MW-1: 15,100 mg/L
- o MW-2: 13,100 mg/L
- o MW-3: 13,700 mg/L
- o MW-6: 16,000 mg/L

TDS concentrations exceeded the NMWQCC standard of 1,000 mg/L in four wells sampled during the December 2021 groundwater investigation. TDS analytical results are as follows:

- o MW-1: 19,300 mg/L
- o MW-2: 15,200 mg/L
- o MW-3: 17,300 mg/L
- o MW-6: 23,700 mg/L



Chevron Environmental Management Company

2023 Site Assessment Report

Pardue Farms 27-12 Well Site
Case No. 2RP-1395

November 2023

2023 Site Assessment Report Pardue Farms 27-12

2023 Site Assessment Report

Pardue Farms 27-12 Well Site
Case No. 2RP-1395

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2023_Pardue 27_12_Site Assessment Report_Final Draft

2023 Site Assessment Report Pardue Farms 27-12

Version Control (optional)

Issue	Revision No.	Date Issued	Page No.	Description	Reviewed By

2023 Site Assessment Report Pardue Farms 27-12

Contents

1	Introduction.....	5
2	2023 Investigation.....	5
	2.1 Soil Analytical Results	7
	2.1.1 Chloride	7
	2.1.2 BTEX	8
	2.1.3 TPH.....	8
3	2023 Groundwater Investigation	8
	3.1 Groundwater Gauging Data	8
	3.2 Groundwater Analytical Results	9
	3.2.1 Chloride	9
	3.2.2 BTEX	10
	3.2.3 TDS.....	10
4	Summary.....	10

Tables

Table 1.	March 2023 Soil Investigation Analytical Summary
Table 2.	Potentiometric Elevation Data – March and July 2023
Table 3.	2023 Groundwater Investigation Analytical Summary
Table 4.	Cumulative Groundwater Investigation Analytical Summary
Table 5.	Historical Soil Analytical Data

Figures

Figure 1.	Site Location Map
Figure 2.	Site Vicinity Map
Figure 3.	Soil Analytical Results Map – March 2023
Figure 4.	Potentiometric Surface Map – March 2023

2023 Site Assessment Report Pardue Farms 27-12

- Figure 5. Potentiometric Surface Map – July 2023**
- Figure 6. Groundwater Analytical Results Map – March 2023**
- Figure 7. Groundwater Analytical Results Map – July 2023**
- Figure 8. Chloride Isoconcentration Map – March 2023**
- Figure 9. Chloride Isoconcentration Map – July 2023**
- Figure 10. Total Dissolved Solids Isoconcentration Map – March 2023**
- Figure 11. Total Dissolved Solids Isoconcentration Map – July 2023**

Appendices

- Appendix A: Site Background Information**
- Appendix B: Field Documentation**
- Appendix C: Soil Boring Logs**
- Appendix D: Laboratory Reports**

2023 Site Assessment Report Pardue Farms 27-12

Acronyms and Abbreviations

bgs	below ground surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylene
BTOC	below top of casing
CEMC	Chevron Environmental Management
COC	constituents of concern
DRO	diesel range organics
ft	feet
GRO	gasoline range organics
IDW	investigative derived waste
kg	kilograms
LNAPL	light non-aqueous phase liquid
MCBU	Mid-Continent Business Unit
mg	milligrams
MW	Monitoring Well
NMAC	New Mexico Administrative Code
NMWQCC	New Mexico Water Quality Control Commission
ORO	oil range organics
PID	photoionization detector
ppm	parts per million
SB	soil boring
TDS	total dissolved solids
TPH	total petroleum hydrocarbon
USCS	Unified Soil classification System
USEPA	United States Environmental Protection Agency

2023 Site Assessment Report Pardue Farms 27-12

1 Introduction

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) has prepared this Site Assessment Report (Report) for Pardue Farms 27-12 (Site) in order for Chevron Mid-Continent Business Unit (MCBU) to document the environmental assessment activities performed at the Site. This Report summarizes the field activities completed, and the laboratory analytical results of samples collected during a soil and groundwater investigation conducted on-site in March and July 2023.

The Site is located in Eddy County approximately one mile southeast of Loving, New Mexico along the northeast quarter of the southwest quarter of Section 27, Township 23 South, Range 28 East. The Site surface is privately owned and Chevron Midcontinent, L.P. holds the oil and gas lease. The average depth to groundwater at the Site is approximately 30 feet below ground surface (bgs).

The Site is located on the western edge of the Permian Basin, a 75,000-square-mile area in Texas and New Mexico that is populated by numerous oil and gas production wells. In New Mexico, the Permian Basin extends to Roosevelt County to the north, Chaves and Eddy County to the west, and to Texas to the south. A Site Location Map and Vicinity Map are presented as **Figure 1 and 2**. Additional Site background information is presented in **Appendix A**. Field documentation is presented in **Appendix B**.

2 2023 Investigation

In March 2023, Arcadis advanced 7 soil borings to a total depth of 24 to 55 feet (ft) bgs using Air Rotary with an Ingersoll-Rand T3W drill rig. Soil samples were collected at each boring via grab sample at the following intervals:

- SB-24
 - o 2 ft bgs
 - o 4 ft bgs
 - o 9 – 10 ft bgs
 - o 14 – 15 ft bgs
 - o 15 – 20 ft bgs
 - o 24 – 25 ft bgs
 - o 29 – 30 ft bgs
- SB-25
 - o 2 ft bgs
 - o 4 ft bgs
 - o 9 – 10 ft bgs
 - o 14 – 15 ft bgs
 - o 19 – 20 ft bgs
 - o 24 – 25 ft bgs
- SB-26
 - o 2 ft bgs
 - o 4 ft bgs
 - o 9 – 10 ft bgs
 - o 14 – 15 ft bgs
 - o 19 – 20 ft bgs
 - o 24 – 25 ft bgs

2023 Site Assessment Report Pardue Farms 27-12

- SB-27
 - o 2 ft bgs
 - o 4 ft bgs
 - o 9 – 10 ft bgs
 - o 14 – 15 ft bgs
 - o 19 – 20 ft bgs
 - o 23 – 24 ft bgs
 - o 44 – 45 ft bgs
 - o 49 – 50 ft bgs
 - o 53 – 54 ft bgs
- SB-28
 - o 2 ft bgs
 - o 4 ft bgs
 - o 9 – 10 ft bgs
 - o 14 – 15 ft bgs
 - o 19 – 20 ft bgs
 - o 23 – 24 ft bgs
- MW-7
 - o 2 ft bgs
 - o 3 – 4 ft bgs
 - o 9 – 10 ft bgs
 - o 14 – 15 ft bgs
 - o 19 – 20 ft bgs
 - o 24 – 25 ft bgs
 - o 29 – 30 ft bgs
 - o 34 – 35 ft bgs
 - o 39 – 40 ft bgs
- MW-8
 - o 2 ft bgs
 - o 4 ft bgs
 - o 9 – 10 ft bgs
 - o 14 – 15 ft bgs
 - o 19 – 20 ft bgs
 - o 24 – 25 ft bgs
 - o 29 – 30 ft bgs
 - o 39 – 40 ft bgs
 - o 44 – 45 ft bgs
 - o 49 – 50 ft bgs
 - o 54 – 55 ft bgs

Soil samples were continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS) and field screening methods were utilized to quantify soil hydrocarbon impacts. No staining was observed, and the highest photoionization detector (PID) readings were 0.5 parts per million (ppm) observed at MW-8 (0-1 ft bgs). All PID readings can be found on the boring logs presented in **Appendix C**.

2023 Site Assessment Report Pardue Farms 27-12

Soil samples were collected via grab sample and placed in clean, laboratory-supplied sample containers, labeled, placed on ice, cooled to approximately 4 degrees Celsius, and transported via overnight courier to Pace analytical laboratory in Mount Juliet, Tennessee, for constituents of concern (COC) analysis. The samples collected from each soil boring were analyzed for:

- Benzene, Toluene, Ethylbenzene and Xylene (BTEX) by United States Environmental Protection Agency (USEPA) 8260B
- Total Petroleum Hydrocarbon (TPH) - Gasoline Range Organics (GRO), Diesel Range Organics (DRO), Oil Range Organics (ORO) by USEPA 8015D, 8015M
- Chloride by USEPA 300.0

Investigative derived waste (IDW), which includes soil cuttings from drilling activities and purged water from the groundwater sampling events were containerized in 16 properly labeled 55-gallon drums and stored onsite until they were transported and disposed of at a CEMC-approved waste disposal facility. Soil borings were plugged to native ground surface with bentonite chips.

2.1 Soil Analytical Results

Soil analytical results were compared to the closure criteria outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) standards for chloride, BTEX, and TPH. A summary of the soil sample analytical results from the March 2023 soil investigation is presented in **Table 1**. Copies of the certified analytical reports and chain-of-custody documentation are presented in **Appendix D**. Soil analytical results are also presented in **Figure 3**.

2.1.1 Chloride

Chloride concentrations exceeded the NMAC standard of 600 milligrams per kilogram (mg/kg) in five of the soil borings (SB-25, SB-26, SB-27, SB-28, and MW-8). SB-24 and MW-7 did not have any exceedances of the NMAC standards for chlorides. The sample intervals for each borehole with exceedances are listed below:

- SB-25
 - o 2 ft bgs: 707 mg/kg
 - o 4 ft bgs: 1,260 mg/kg
 - o 9-10 ft bgs: 1,110 mg/kg
 - o 14-15 ft bgs: 1,290 mg/kg
 - o 19-20 ft bgs: 922 mg/kg
 - o 24-25 ft bgs: 627 mg/kg
- SB-26
 - o 4 ft bgs: 1,320 mg/kg
 - o 9-10 ft bgs: 1,190 mg/kg
 - o 14-15 ft bgs: 2,190 mg/kg
 - o 24-25 ft bgs: 827 mg/kg
- SB-27
 - o 0-1 ft bgs: 850 mg/kg
 - o 4 ft bgs: 1,940 mg/kg
 - o 9-10 ft bgs: 2,660 mg/kg
 - o 14-15 ft bgs: 2,770 mg/kg

2023 Site Assessment Report Pardue Farms 27-12

- o 19-20 ft bgs: 1,920 mg/kg
- o 23-24 ft bgs: 1,960 mg/kg
- SB-28
 - o 4 ft bgs: 1,900 mg/kg
 - o 9-10 ft bgs: 718 mg/kg
 - o 14-15 ft bgs: 2,870 mg/kg
 - o 19-20 ft bgs: 1,510 mg/kg
 - o 23-24 ft bgs: 951 mg/kg
- MW-8
 - o 4 ft bgs: 1,650 mg/kg
 - o 9-10 ft bgs: 998 mg/kg
 - o 19-20 ft bgs: 962 mg/kg
 - o 24-25 ft bgs: 983 mg/kg
 - o 29-30 ft bgs: 960 mg/kg
 - o 34-35 ft bgs: 752 mg/kg
 - o 39-40 ft bgs: 817 mg/kg
 - o 49-50 ft bgs: 790 mg/kg
 - o 54-55 ft bgs: 674 mg/kg

2.1.2 BTEX

BTEX concentrations were reported below the NMAC standard of 50 mg/kg at all sample locations.

2.1.3 TPH

TPH concentrations were reported below the NMAC standard of 100 mg/kg at all sample locations.

3 2023 Groundwater Investigation

Groundwater at the Site was monitored during two events (Spring and Summer) during 2023 from a network of six monitoring wells (MW-1, MW-2, MW-3, MW-6, MW-7, and MW-8). Arcadis gauged and sampled each monitoring well on March 29, 2023, and again on July 6, 2023. All samples were collected via low flow methods using a bladder pump. Samples collected were analyzed for:

- BTEX by USEPA 8021
- TPH- GRO by USEPA 8015
- TPH- DRO, ORO by USEPA 8015M
- Chloride by USEPA 300.0
- Total Dissolved Solids by Method 2540C-2011

3.1 Groundwater Gauging Data

Groundwater and light non-aqueous phase liquid (LNAPL) measurements were collected utilizing a Solinst Oil/Water interface meter during the two 2023 monitoring events and indicated the following:

2023 Site Assessment Report Pardue Farms 27-12

Depth to groundwater ranged from 27.37 feet below top of casing (BTOC) (MW-6) to 39.14 feet BTOC (MW-7) during the March 2023 event and from 27.55 feet BTOC (MW-6) to 39.46 ft BTOC (MW-7) during the July 2023 gauging event. Potentiometric elevation data collected from the 2023 investigation is presented in **Table 2** and on **Figure 4** (March) and **Figure 5** (July).

- LNAPL was not observed in any of the Site monitoring wells during either 2023 event,
- The groundwater elevations during the March 2023 event indicate groundwater flow to the west between in the northern portion of the site and in the southern portion of the site groundwater flows south/southeast. A centralized high point was observed during the July 2023 event around MW-2 and MW-3. Groundwater flowed northwest toward MW-8 and southeast toward MW-7.,
- The calculated gradient was approximately 0.00075 feet/foot (ft/ft) for the March 2023 gauging event and approximately 0.0013 ft/ft for July 2023 gauging event.

3.2 Groundwater Analytical Results

Six monitoring wells were sampled during the March and July 2023 groundwater monitoring events. Groundwater analytical results for chloride, BTEX, TPH, and TDS were compared to the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards for samples collected from MW-1, MW-2, MW-3, MW-6, MW-7, and MW-8. A summary of the groundwater analytical results is presented in **Table 3** and a cumulative summary of groundwater analytical results can be viewed in **Table 4**. Copies of the certified analytical reports and chain-of-custody documentation are presented in **Appendix D**. Groundwater analytical results are also presented in **Figures 6 and 7**. The isoconcentration maps for chloride for the 2023 sampling events are presented in **Figures 8 and 9**. The isoconcentration maps for Total Dissolved Solids (TDS) for the 2023 sampling events are presented in **Figure 10 and 11**. Analytical results from the 2023 groundwater investigations are further discussed below.

3.2.1 Chloride

Chloride concentrations exceeded the NMWQCC standard of 250 milligrams per liter (mg/L) in six wells sampled during both the March and July 2023 groundwater investigation. Chloride analytical results are as follows:

- **March 2023**
 - o MW-1: 7,460 mg/L
 - o MW-2: 5,510 mg/L
 - o MW-3: 5,930 mg/L
 - o MW-6: 9,790 mg/L
 - o MW-7: 5,020 mg/L
 - o MW-8: 5,310 mg/L
- **July 2023**
 - o MW-1: 7,920 mg/L
 - o MW-2: 5,690 mg/L
 - o MW-3: 6,170 mg/L
 - o MW-6: 10,400 mg/L
 - o MW-7: 4,980 mg/L
 - o MW-8: 5,360 mg/L

2023 Site Assessment Report Pardue Farms 27-12

3.2.2 BTEX

Benzene, Toluene, Ethylbenzene, and Total Xylenes were reported below the NMWQCC standard of 0.01, 0.75, 0.75, and 0.62 mg/L, respectively, in all wells sampled during both 2023 groundwater investigation events.

3.2.3 TDS

TDS concentrations exceeded the NMWQCC standard of 1,000 mg/L in all six wells sampled during both the March and July 2023 groundwater investigation. TDS analytical results are as follows:

- **March 2023**
 - o MW-1: 15,600 mg/L
 - o MW-2: 13,800 mg/L
 - o MW-3: 13,900 mg/L
 - o MW-6: 23,400 mg/L
 - o MW-7: 13,900 mg/L
 - o MW-8: 13,600 mg/L
- **July 2023**
 - o MW-1: 19,000 mg/L
 - o MW-2: 14,500 mg/L
 - o MW-3: 15,300 mg/L
 - o MW-6: 25,200 mg
 - o MW-7: 9,800 mg/L
 - o MW-8: 12,300 mg/L

4 Summary

To further delineate the chloride impacts to soil at the Site, seven soil borings were advanced around the perimeter of the known impacted area during March of 2023.

- Soil analytical results exceeded the revised NMAC screening level for chloride of 600 mg/kg at five of the soil borings with the highest result being 2,870 mg/kg from SB-28 (14-15 ft bgs).
- Soil analytical data collected at SB-24 and MW-7 indicated no chloride impact. These two locations, along with SB-20 and SB-21 drilling during 2021, are providing soil delineation along the southern portion of the site. Historical site soil analytical data is found in **Table 5**.

Groundwater gauging and sampling was completed on March 28-29 and July 5-6, 2023, for all six site monitoring wells. Groundwater gauging and analytical results reported from the 2023 groundwater investigations indicated:

- Potentiometric surface conditions indicate groundwater flow to the west/northwest.
- Chloride exceeded the NMWQCC groundwater standard in all Site wells sampled during both 2023 events.
- TDS exceeded the NMWQCC groundwater standard in all Site wells sampled during both 2023 events.
- Chloride concentrations decreased slightly from 2021 levels in monitoring wells MW-1, MW-2, and MW-3. However, monitoring well MW-6 had a slight chloride increase during the July 2023 event compared to 2021 sampling events.

2023 Site Assessment Report Pardue Farms 27-12

- TDS trends are relatively stable since 2021. All sampled wells show a trend in concentrations between the 2021 and 2023 sampling events where lower concentrations are present during the first semiannual event and an increase concentration during the second semiannual sampling event.

Chloride impact to soil and groundwater at the Site has not been fully delineated. Additional soil and groundwater assessment activities are recommended. If you have any questions or comments regarding the information presented in this Report, please contact Russell Grant at 432.217.2064 or at Russell.Grant@arcadis.com.

Tables

Figures

Appendix A

Site Background Information

Appendix B

Field Documentation

Appendix C

Soil Boring Logs

Appendix D

Laboratory Reports

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Table 1
March 2023 Soil Investigation Analytical Summary
2023 Site Assessment Report
Chevron EMC
Pardue Farms 27-12
Eddy County, New Mexico



Boring Location ID	Sample Date	Sample Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH-ORO	Chloride	Moisture
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	%
NMAC Closure Criteria ^(a)			10	--	--	--	50	--	100	--	600	--
SB-24	3/29/2023	0 to 1	<0.000709	<0.00197	<0.00112	<0.00134	<0.000709	<0.0276	<2.03	3.61 B J	24.8 J	--
	3/29/2023	2	<0.000695	<0.00193	<0.00110	<0.00131	<0.000695	0.0292 J	2.21 J	3.02 B J	31.3	--
	3/29/2023	4	<0.000518	<0.00144	<0.000816	<0.000975	<0.000518	<0.0228	2.78 J	7.69	33.2	--
	3/29/2023	9 to 10	<0.000679	<0.00189	<0.00107	<0.00128	<0.000679	<0.0266	<1.98	4.16 B J	94.3	--
	3/29/2023	14 to 15	<0.000495	<0.00138	<0.000781	<0.000932	<0.000495	<0.0223	<1.66 J3	2.28 J	286	--
	3/29/2023	19 to 20	<0.000631	<0.00176	<0.000995	<0.00119	<0.000631	<0.0255	<1.89	1.27 B J	113	--
	3/29/2023	24 to 25	<0.000609	<0.00169	<0.000961	<0.00115	<0.000609	<0.0250	20.5	28.1	22.7 J	--
SB-25	3/29/2023	29 to 30	<0.000482	<0.00134	<0.000761	<0.000909	<0.000482	<0.0221	5.67	12.1	71.9	--
	3/29/2023	0 to 1	<0.000498	<0.00139	<0.000785	0.000959 J	0.000959	<0.0224	<1.66	6.12	202	--
	3/29/2023	2	<0.000538	<0.00150	<0.000849	<0.00101	<0.000538	<0.0234	1.77 J	7.73	707	--
	3/29/2023	4	<0.000522	<0.00145	<0.000824	<0.000984	<0.000522	<0.0230	1.77 J	5.22	1,260	--
	3/29/2023	9 to 10	<0.000609	<0.00170	<0.000962	<0.00115	<0.000609	<0.0250	<1.86	3.63 J	1,110	--
	3/29/2023	14 to 15	<0.000558	<0.00155	<0.000880	<0.00105	<0.000558	<0.0238	1.92 J	3.83 J	1,290	--
	3/29/2023	19 to 20	<0.000599	<0.00167	<0.000946	<0.00113	<0.000599	<0.0248	<1.84	2.44 J	922	--
SB-26	3/29/2023	24 to 25	<0.000635	<0.00177	<0.00100	<0.00120	<0.000635	<0.0256	<1.90	1.52 J	627	--
	3/29/2023	0 to 1	<0.000497	<0.00138	<0.000784	<0.000936	<0.000497	<0.0224	1.70 J	11.2	14.4 J	--
	3/29/2023	2	<0.000755	<0.00210	<0.00119	<0.00142	<0.000755	<0.0284	<2.11	0.828 J	<26.9	--
	3/29/2023	4	<0.000528	<0.00147	<0.000833	<0.000994	<0.000528	<0.0231	<1.71	2.00 J	1,320	--
	3/29/2023	9 to 10	<0.000558	<0.00155	<0.000881	<0.00105	<0.000558	<0.0231	<1.71	1.86 J	1,190	--
	3/29/2023	14 to 15	<0.000560	<0.00156	<0.000884	<0.00106	<0.000560	<0.0239	<1.77	1.76 J	2,190	--
	3/29/2023	19 to 20	<0.000738	<0.00205	<0.00116	<0.00139	<0.000738	<0.0280	<2.08	0.975 B J	112	--
SB-27	3/29/2023	24 to 25	<0.000574	<0.00160	<0.000907	<0.00108	<0.000574	<0.0242	<1.79	1.86 B J	827	--
	3/28/2023	0 to 1	<0.000540	<0.00150	<0.000853	<0.00102	<0.000540	<0.0234	<1.74	7.02	850	--
	3/28/2023	2	0.000745 J	<0.00155	0.00123 J	<0.00105	0.001975	<0.0238	26.2	2.20 B J	370	--
	3/28/2023	4	<0.000520 J3	<0.00145	<0.000821 J3	<0.000981 J3	<0.000520	<0.0229	<1.70	3.83 J	1,940	--
	3/28/2023	9 to 10	<0.000552	<0.00154	<0.000872	<0.00104	<0.000552	<0.0237	<1.76	1.51 B J	2,660	--
	3/28/2023	14 to 15	<0.000572	<0.00159	<0.000903	<0.00108	<0.000572	<0.0241	<1.79	0.914 B J	2,770	--
	3/28/2023	19 to 20	<0.000569	<0.00158	<0.000898	<0.00107	<0.000569	<0.0241	<1.79	0.500 B J	1,920	--
SB-28	3/28/2023	23 to 24	<0.000551	<0.00153	<0.000869	<0.00104	<0.000551	<0.0236	<1.75	1.86 B J	1,960	--
	3/28/2023	44 to 45	<0.000758	<0.00211	<0.00120	<0.00143	<0.000758	<0.0284	<2.11	<0.359	396	--
	3/28/2023	49 to 50	<0.000678	<0.00189	<0.00107	<0.00128	<0.000678	<0.0266	<1.97	<0.336	396	--
	3/28/2023	53 to 54	<0.000662	<0.00184	<0.00105	<0.00125	<0.000662	<0.0262	<1.95	<0.331	299	--
	3/28/2023	0 to 1	<0.000497	<0.00138	<0.000785	<0.000937	<0.000497	<0.0224	1.79 J	11.1	27.6	--
	3/28/2023	2	<0.000493	<0.00137	<0.000778	<0.000929	<0.000493	<0.0223	1.79 J	10.7	97.5	--
	3/28/2023	4	<0.000538	<0.00150	<0.000848	<0.00101	<0.000538	<0.0233	<1.73	5.44	1,900	--
MW-7	3/28/2023	9 to 10	<0.000772	<0.00215	<0.00122	<0.00146	<0.000772	<0.0288	<2.13	<0.363	718	--
	3/28/2023	14 to 15	<0.000544	<0.00151	<0.000859	<0.00103	<0.000544	<0.0235	<1.74	1.92 J	2,870	--
	3/28/2023	19 to 20	<0.000563	<0.00157	<0.000889	<0.00106	<0.000563	<0.0239	<1.78	2.15 J	1,520	--
	3/28/2023	23 to 24	<0.000543	<0.00151	<0.000857	<0.00102	<0.000543	<0.0235	<1.74	2.10 J	951	--
	3/28/2023	0 to 1	<0.000569	<0.00158	<0.000898	<0.00107	<0.000569	0.0258 J	<1.78	0.307 J	<10.6	--
	3/28/2023	2	0.00116 J	0.00701	0.00113 J	0.00507 J	0.01437	<0.0257	<1.90	0.960 J	<11.0	--
	3/28/2023	3 to 4	<0.000645	<0.00180	<0.00102	<0.00122	<0.000645	<0.0258	<1.92	<0.326	76.3	--
MW-7	3/28/2023	9 to 10	<0.000499	<0.00139	<0.000787	<0.000940	<0.000499	<0.0224	<1.66	<0.283	75.8	--
	3/28/2023	14 to 15	<0.000619	<0.00172	<0.000977	<0.00117	<0.000619	<0.0252	<1.87	<0.319	22.6 J	--
	3/28/2023	19 to 20	<0.000577	<0.00161	<0.000910	<0.00109	<0.000577	<0.0242	<1.80	<0.306	26.2	--
	3/28/2023	24 to 25	<0.000564	<0.00157	<0.000890	<0.00106	<0.000564	<0.0239	<1.78	<0.302	22.0 J	--
	3/28/2023	29 to 30	<0.000601	<0.00167	<0.000949	<0.00113	<0.000601	<0.0248	<1.84	1.91 J	37.6	--
	3/28/2023	34 to 35	<0.000700	<0.00195	<0.00111	<0.00132	<0.000700	<0.0271	<2.01	<0.342	265	--
	3/28/2023	39 to 40	<0.000771	<0.00215	<0.00122	<0.00145	<0.000771	<0.0287	<2.13	<0.363	224	--

Table 1
March 2023 Soil Investigation Analytical Summary
2023 Site Assessment Report
Chevron EMC
Pardue Farms 27-12
Eddy County, New Mexico



Boring Location ID	Sample Date	Sample Depth (ft bgs)										
			Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH-ORO	Chloride	Moisture
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	%
NMAC Closure Criteria ^(a)			10	--	--	--	50	--	100	--	600	--
MW-8	3/27/2023	0 to 1	<0.000564	<0.00157	0.00278 J	0.00896	0.01174	0.0348 J	5.92	27.5	76.5	--
	3/27/2023	2	<0.000631	<0.00176	<0.000996	0.00459 J	0.00459	0.0375 J	<1.89	3.49 J	238	--
	3/27/2023	4	<0.000595	<0.00166	0.00261 J	0.00240 J	0.00501	0.0302 J	2.15 J	3.56 B J	1,650	--
	3/27/2023	9 to 10	<0.000698	<0.00194	<0.00110	0.00266 J	0.00266	<0.0270	<2.01	0.928 B J	998	--
	3/27/2023	14 to 15	<0.000533	<0.00149	0.00175 J	0.00286 J	0.00461	0.0288 J	1.86 J	2.72 B J	962	--
	3/27/2023	19 to 20	<0.000795	<0.00221	0.00180 J	0.00340 J	0.0052	0.0466 J	<2.17	1.20 B J	931	--
	3/27/2023	24 to 25	<0.000661	0.00202 J	0.00160 J	0.00286 J	0.00648	0.0279 J	3.05 J	5.54	983	--
	3/27/2023	29 to 30	<0.000865	0.00287 J	0.00321 J	0.00358 J	0.00966	<0.0309	2.45 J	3.98 B J	960	--
	3/27/2023	34 to 35	<0.00221	<0.00288	<0.00163	0.00334 J	0.00334	<0.0348	6.56	9.80	752	--
	3/27/2023	39 to 40	<0.000790	<0.00220	0.00140 J	0.00181 J	0.00321	0.0292 J	2.26 J	2.97 B J	817	--
	3/27/2023	44 to 45	<0.000837	0.00235 J	0.00177 J	0.00270 J	0.00682	<0.0302	6.91	7.07	595	--
	3/27/2023	49 to 50	<0.000792	<0.00221	<0.00125	0.00305 J	0.00305	<0.0292	<2.17	2.26 B J	790	--
	3/27/2023	54 to 55	<0.000789	0.00284 J	<0.00125	0.00423 J	0.00707	<0.0292	5.72	8.72	674	--

Notes:

Value Analytical value is greater than or equal to NMAC closure criteria
 mg/kg Milligram per kilogram
 '<' Analyte was not detected at or above the Reported Detection Limit (RDL)
 ft bgs Feet Below ground surface
 BTEX Benzene, Toluene, Ethylbenzene, and Total Xylenes
 TPH GRO Total Petroleum Hydrocarbons Gasoline Range Organics
 TPH ORO Total Petroleum Hydrocarbons Oil Range Organics
 TPH DRO Total Petroleum Hydrocarbon Diesel Range Organics
 NMAC New Mexico Administration Code

Lab Qualifiers:

B The same analyte is found in the associated blank.
 J The identification of the analyte is acceptable; the reported value is an estimate.
 J3 The associated batch QC was outside the established quality control range for precision

Methods used:

1. Chloride analyzed by United States Environmental Protection Agency Method 300
2. TPH-GRO analyzed by USEPA Method 8015D and TPH-DRO along with TPH-ORO analyzed by USEPA method 8015M
3. BTEX analyzed by USEPA Method 8260B
4. (a) Title 19, Chapter 15 of the NMAC for Natural Resources and Wildlife, Oil and Gas, and Releases, 19.15.29 NMAC. August

Table 2
 Potentiometric Elevation Data- March and July 2023
 2023 Site Assessment Report
 Chevron EMC
 Pardue Farms 27-12
 Eddy County, New Mexico



Well ID TOC Elevation (ft. NAVD, 88)	TOC elev	Date	Depth to Groundwater (ft. below TOC)	Depth to LNAPL (ft. below TOC)	LNAPL Thickness	Groundwater Elevation (ft. NAVD, 88)	Well Depth (ft. below TOC)	Well screen interval (ft. bgs)
MW-1	3070.30	3/28/2023	36.16	ND	--	3034.14	58.15	15 - 55
		7/6/2023	36.42	ND	--	3033.88	58.22	15 - 55
MW-2	3071.87	3/29/2023	37.58	ND	--	3034.29	58.44	15 - 55
		7/6/2023	37.94	ND	--	3033.93	58.48	15 - 55
MW-3	3068.64	3/29/2023	34.34	ND	--	3034.30	59.71	19 - 54
		7/5/2023	34.72	ND	--	3033.92	59.70	19 - 54
MW-6	3061.05	3/28/2023	27.37	ND	--	3033.68	58.66	23.75 - 58.75
		7/5/2023	27.55	ND	--	3033.50	58.69	23.75 - 58.75
MW-7	3073.27	3/29/2023	39.14	ND	--	3034.13	57.48	34 - 54
		7/5/2023	39.46	ND	--	3033.81	57.54	34 - 54
MW-8	3062.96	3/29/2023	28.92	ND	--	3034.04	47.29	24 - 44
		7/5/2023	29.60	ND	--	3033.36	47.31	24 - 44

Notes:

TOC = Top of Casing

NAVD88 = North American Vertical Datum of 1988

ft bgs = feet below ground surface

NA = Not Detected

-- = Not measured

Table 3
2023 Groundwater Investigation Analytical Summary
2023 Site Assessment Report
Chevron EMC
Pardue Farms 27-12
Eddy County, New Mexico



Boring Location ID	Sample Date	Chloride	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH-ORO	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NMAC Standards		250	0.005	0.75	0.75	0.62	--	--	--	--	1,000
MW-1	3/28/2023	7,460	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.104 B	0.281 B	15,600
MW-1	7/6/2023	7,920	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	<0.0118	19,000
MW-2	3/29/2023	5,510	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.0713 B	0.130 B	13,800
MW-2	7/6/2023	5,690	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	<0.0118	14,500
MW-2 [DUP-1]	7/6/2023	5,570	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	<0.0118	13,800
MW-3	3/29/2023	5,930	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.0520 B J	0.0796 B J	13,900
MW-3 [DUP-1]	3/29/2023	5,940	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	0.0372 J	15,600
MW-3	7/5/2023	6,170	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	<0.0118	15,300
MW-6	3/28/2023	9,790	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.135 B	0.145 B	23,400
MW-6	7/5/2023	10,400	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	0.1220	25,200
MW-7	3/29/2023	5,020	<0.000190	0.000843 J	<0.000160	<0.000510	0.000843	<0.0314	0.0869 B J	0.0646 B J	13,900
MW-7	7/5/2023	4,980	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	<0.0118	9,980
MW-8	3/29/2023	5,310	<0.000190	0.00170	<0.000160	<0.000510	0.03600	0.0343 B J	0.389	0.178	13,600
MW-8	7/5/2023	5,360	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	2.12	<0.0118	12,300
EB-W	3/29/2023	<0.379	<0.000190	0.00170	<0.000160	<0.000510	<0.000160	<0.0314	0.0310 J	0.0302 J	<10.0
EB-W	7/6/2023	0.491 B J	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	0.0335 B J	<0.0222	<0.0118	<10.0
FB-W	7/6/2023	NA	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	NA	NA	NA	NA

Notes:

Value Analytical value is greater than or equal to NMAC clsource criteria
mg/L Milligram per Liters
'<' Analyte was not detected at or above the Method Detection Limit (MDL)
NA Not Analyzed
NMAC New Mexico Administration Code
BTEX Benzene, Toluene, Ethylbenzene, and Total Xylenes
TPH GRO Total Petroleum Hydrocarbons Gasoline Range Organics
TPH DRO Total Petroleum Hydrocarbon Diesel Range Organics
TPH ORO Total Petroleum Hydrocarbons Oil Range Organics

Lab Qualifiers:

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B The same analyte is found in the associated blank.
DUP Duplicate result

Methods Used:

1. Chloride analyzed by United States Environmental Protection Agency Method 300.0
2. TPH analyzed by USEPA Method 8015M
3. BTEX analyzed by USEPA Method 8015/8021/8021B
4. Total dissolved solids analyzed by Method 2540 C-2011
5. (a) Title 19, Chapter 15 of the NMAC for Natural Resources and Wildlife, Oil and Gas, and Releases, 19.15.29 NMAC. August

Table 4
Cumulative Groundwater Investigation Analytical Summary
2023 Site Assessment Report
Chevron EMC
Pardue Farms 27-12
Eddy County, New Mexico



Boring Location ID	Sample Date										
		Chloride	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH-ORO	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NMAC Standards		250	0.005	0.75	0.75	0.62	--	--	--	--	1000
MW-1	6/27/2019	4,560	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/19/2020	9,880	<0.000560	<0.000550	<0.00129	<0.00198	<0.000550	<0.0492	<0.0450	<0.150	14,800
	6/30/2021	7,210	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.0437 J	0.0684 J	15,100
	12/10/2021	8,120	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	0.0495 J	19,300
	3/28/2023	7,460	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.104 B	0.281 B	15,600
	7/6/2023	7,920	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	<0.0118	19,000
MW-2	6/27/2019	5,950	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2 [DUP-1]	6/27/2019	5,710	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	11/19/2020	6,580	<0.000560	<0.000550	<0.00129	<0.00198	<0.000550	<0.0492	<0.0450	<0.150	13,400
	6/30/2021	5,450	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.0530 J	0.0430 J	13,100
	12/10/2021	5,990	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	0.0453 J	15,200
	3/29/2023	5,510	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.0713 B	0.130 B	13,800
	7/6/2023	5,690	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	<0.0118	14,500
	7/6/2023	5,570	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	<0.0118	13,800
MW-3	6/27/2019	4,650	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/19/2020	6,680	<0.000560	<0.000550	<0.00129	<0.00198	<0.000550	<0.0492	<0.0450	0.256	14,100
	6/30/2021	6,520	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.0300 J	0.0196 J	13,700
	12/10/2021	6,940	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	0.0688 J	17,300
	3/29/2023	5,930	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.0520 B J	0.0796 B J	13,900
	3/29/2023	5,940	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	0.0372 J	15,600
MW-3	7/5/2023	6,170	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	<0.0118	15,300
MW-5	10/17/2019	2,180	0.000176	0.000198	0.000212	0.000366	0.000952	0.0492 U	0.4520 J	0.212 J	5,910
MW-5 [DUP-2]	10/17/2019	1,290	NA	NA	NA	NA	NA	NA	0.4520 J	NA	5,880
MW-6	11/19/2020	10,800	<0.000560	<0.000550	<0.00129	<0.00198	<0.000550	<0.0492	0.0914 J	0.293	18,800
MW-6 [DUP-1]	11/19/2020	12,400	<0.000560	<0.000550	<0.00129	<0.00198	<0.000550	<0.0492	0.0994 J	0.202 J	16,600
MW-6	6/30/2021	8,230	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.121	0.115	16,000
MW-6 [DUP-1]	6/30/2021	8,260	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.208	0.243	16,800
MW-6	12/10/2021	9,730	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	ss	0.131	0.166	23,700
MW-6 [DUP-1]	12/10/2021	9,570	0.000195 J	0.000708 B J	<0.000160	<0.000510	0.000903	<0.0314	0.164	0.193	21,100 J3
MW-6	3/28/2023	9,790	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	0.135 B	0.145 B	23,400
	7/5/2023	10,400	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	0.1220	25,200
	3/29/2023	5,020	<0.000190	0.000843 J	<0.000160	<0.000510	<0.000160	<0.0314	0.0869 B J	0.0646 B J	13,900
MW-7	7/5/2023	4,980	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	<0.0222	<0.0118	9,980
	3/29/2023	5,310	<0.000190	0.00170	<0.000160	<0.000510	<0.000160	0.0343 B J	0.389	0.178	13,600
MW-8	7/5/2023	5,360	<0.000190	<0.000412	<0.000160	<0.000510	<0.000160	<0.0314	2.12	<0.0118	12,300

Notes:

Value Analytical value is greater than or equal to NMAC cloure criteria
mg/L Milligram per Liters
'<' Analyte was not detected at or above the Method Detection Limit (MDL)
NA Not Analyzed
NMAC New Mexico Administration Code
BTEX Benzene, Toluene, Ethylbenzene, and Total Xylenes
TPH GRO Total Petroleum Hydrocarbons Gasoline Range Organics
TPH DRO Total Petroleum Hydrocarbon Diesel Range Organics
TPH ORO Total Petroleum Hydrocarbons Oil Range Organics

Lab Qualifiers:

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B The same analyte is found in the associated blank.
J3 The associated batch QC was outside the established quality control range for precision

Method Used:

- Chloride analyzed by United States Environmental Protection Agency Method 300.0
- TPH analyzed by USEPA Method 8015M
- BTEX analyzed by USEPA Method 8015/8021/8021B
- Total dissolved solids analyzed by Method 2540 C-2011
- (a) Title 19, Chapter 15 of the NMAC for Natural Resources and Wildlife, Oil and Gas, and Releases, 19.15.29 NMAC. August

Table 5
Historical Soil Analytical Data
2023 Site Assessment Report
Chevron Environmental Management Company
Pardue Farms 27-12
Eddy County, New Mexico

Boring Location ID	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Chloride (mg/kg)	% Moisture
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Closure Criteria ^(a)			10	--	--	--	50	--	100	--	600	--
MW-1	4/10/2012	4 to 5	--	--	--	--	--	--	16	--	1,480	--
	4/10/2012	9 to 10	--	--	--	--	--	--	<13	--	1,760	--
MW-2	4/10/2012	14 to 15	--	--	--	--	--	--	<13	--	1,520	--
	4/10/2012	19 to 20	--	--	--	--	--	--	<13	--	689	--
MW-3	4/9/2012	4 to 5	--	--	--	--	--	--	42	--	14,300	--
	4/9/2012	9 to 10	--	--	--	--	--	--	28	--	13,900	--
MW-4	4/9/2012	14 to 15	--	--	--	--	--	--	<14	--	2,430	--
	11/5/2018	5	<0.0023	<0.00478	<0.00629	<0.00696	<0.00478	<0.237	28.5	9.43 J	237	14.4
MW-4	11/5/2018	#	<0.0100	<0.00519	<0.00684	<0.00757	<0.00519	<0.265	24.0 J	<7.51	557 D	12
	11/5/2018	#	<0.0032	<0.00483	<0.00635	<0.00703	<0.00483	<0.248	21.4 J	<7.56	447	11.2
	11/5/2018	#	<0.0105	<0.00544	<0.00716	<0.00783	<0.00544	<0.266	17.2 J	<7.56	1,220	15.7
	11/5/2018	#	<0.0115	<0.00595	<0.00783	<0.00867	<0.00595	<0.259	<7.41	<7.41	855	24.8
MW-5	10/15/2019	0 to 1	0.000566	0.00124	0.000916	0.00101	0.003732	0.0641	35.8	35.8	27.3	7.8
	10/15/2019	4 to 5	0.000554	0.00121	0.000896	0.000993	0.003653	0.0652	34.1	34.1	5.35	23.5
	10/15/2019	9 to 10	0.000626	0.00137	0.00101	0.00112	0.004126	0.0633	34.6	34.6	10.7	0.7
	10/15/2019	14 to 15	0.000716	0.00157	0.00116	0.00128	0.004726	0.0635	35.1	35.1	494	5.9
	10/15/2019	19 to 20	0.000626	0.00137	0.00101	0.00112	0.004126	0.0645	34.3	34.3	388	1.8
	10/15/2019	24 to 25	0.000587	0.00128	0.00095	0.00105	0.003867	0.0631	34.7	34.7	617	6.7
	10/15/2019	29 to 30	0.000685	0.0015	0.00111	0.00123	0.004525	0.0641	33.1	33.1	360	13.6
	10/15/2019	34 to 35	0.000652	0.00143	0.00106	0.00117	0.004312	0.064	33	33	588	14.2
	10/15/2019	39 to 40	0.0007	0.00153	0.00113	0.00126	0.00462	0.064	34.9	34.9	630	9.1
	6/21/2010	0 to 1	--	--	--	--	--	15,660	--	--	20,000	--
BH-1	6/21/2010	5 to 6	--	--	--	--	--	1,616	--	--	18,400	--
	6/21/2010	10 to 11	--	--	--	--	--	<10	--	--	8,000	--
	6/21/2010	15 to 16	--	--	--	--	--	61	--	--	2,920	--
	6/21/2010	20 to 21	--	--	--	--	--	--	--	--	2,120	--
	6/21/2010	25 to 26	--	--	--	--	--	--	--	--	1,960	--
BH-2	6/21/2010	0 to 1	--	--	--	--	--	14,760	--	--	14,400	--
	6/21/2010	5 to 6	--	--	--	--	--	15	--	--	16,800	--
	6/21/2010	10 to 11	--	--	--	--	--	<10	--	--	4,320	--
	6/21/2010	15 to 16	--	--	--	--	--	<10	--	--	2,000	--
	6/21/2010	20 to 21	--	--	--	--	--	--	--	--	2,360	--
SB-1	4/9/2012	4 to 5	--	--	--	--	--	2,570	--	--	17,100	--
	4/9/2012	14 to 15	--	--	--	--	--	301	--	--	4,060	--
SB-2	4/9/2012	4 to 5	--	--	--	--	--	292	--	--	1,400	--
	4/9/2012	14 to 15	--	--	--	--	--	10,160	--	--	20,900	--
SB-3	4/9/2012	4 to 5	--	--	--	--	--	141	--	--	16,200	--
	4/9/2012	9 to 10	--	--	--	--	--	261	--	--	4,650	--
SB-4	4/9/2012	4 to 5	--	--	--	--	--	3,930	--	--	16,300	--
	4/9/2012	9 to 10	--	--	--	--	--	706	--	--	13,900	--
SB-5	4/9/2012	19 to 20	--	--	--	--	--	291	--	--	3,040	--
SB-6	11/6/2018	0 to 1	<0.00810	<0.00419	<0.00552	<0.00611	<0.00419	<0.243	<7.56	<7.56	72.9 X	13.6
	11/6/2018	4 to 5	<0.00794	<0.00411	<0.00541	<0.00599	<0.00411	<0.238	<7.41	<7.41	1,280	11.7
	11/6/2018	9 to 10	<0.00893	<0.00462	<0.00609	<0.00674	<0.00462	<0.268	<7.47	<7.47	1,500	16.9
	11/6/2018	14 to 15	<0.00873	<0.00452	<0.00595	<0.00658	<0.00452	<0.262	<7.45	<7.45	1,120 J	17.2
	11/6/2018	19 to 20	<0.00837	<0.00433	<0.00570	<0.00631	<0.00433	<0.251	<7.50	<7.50	1,470	15.7
	11/6/2018	24 to 25	<0.00845	0.00561 J	<0.00576	<0.00637	0.00561 J	<0.253	<7.49	<7.49	1,210 J	16
	11/6/2018	0 to 1	<0.00879	<0.00455	<0.00599	<0.00663	<0.00455	<0.264	16.5 J	<7.45	21.2 J	15.5
	11/6/2018	4 to 5	<0.00845	<0.00437	<0.00576	<0.00637	<0.00437	<0.253	<7.49	<7.49	1,070	13.1
	11/6/2018	9 to 10	<0.00886	<0.00459	<0.00604	<0.00669	<0.00459	<0.266	<7.52	<7.52	656	13.2
	11/6/2018	14 to 15	<0.00825	<0.00427	<0.00562	<0.00622	<0.00427	<0.247	<7.54	<7.54	1,580	12.5
SB-7	11/6/2018	19 to 20	<0.00886	<0.00459	<0.00604	<0.00669	<0.00459	<0.266	<7.41	<7.41	1,720	13.1
	11/6/2018	24 to 25	<0.00851	<0.00441	<0.00580	<0.00642	<0.00441	<0.255	<7.47	<7.47	1,760	11.3
	11/6/2018	0 to 1	<0.00837	<0.00433	<0.00570	0.00741 J	0.00741 J	<0.251	<7.50	<7.50	25.5	8.9
	11/6/2018	4 to 5	<0.00902	<0.00467	<0.00615	<0.00681	<0.00467	<0.270	<7.53	<7.53	2,150	8.71
	11/6/2018	9 to 10	<0.00888	<0.00460	<0.00605	<0.00670	<0.00460	<0.266	<7.44	<7.44	745 XF	12.1
	11/6/2018	14 to 15	<0.00859	<0.00445	<0.00586	<0.00648	<0.00445	<0.258	<7.48	<7.48	2,280	8.71
	11/6/2018	19 to 20	<0.00888	<0.00460	<0.00605	<0.00670	<0.00460	<0.251	<7.44	<7.44	2,290	10.7
	11/6/2018	24 to 25	<0.00883	<0.00445	<0.00602	<0.00666	<0.00445	<0.265	20.1 J	<7.55	2,220	12.9
	11/6/2018	0 to 1	<0.00859	<0.00445	<0.00586	<0.00648	<0.00445	<0.264	<7.49	<7.49	9.62	0.62
	11/6/2018	4 to 5	<0.00879	<0.00445	<0.00599	<0.00663	<0.00445	<0.264	<7.47	<7.47	2,530	9.65
	11/6/2018	9 to 10	<0.00781	<0.00404	<0.00532	<0.00589	<0.00404	<0.234	<7.53	<7.53	2,420	8.98
SB-8	11/6/2018	14 to 15	<0.00822	<0.00425	<0.00560	<0.00620	<0.00425	<0.246	<7.53	<7.53	1,930	8.67
	11/6/2018	19 to 20	<0.00803	<0.00416	<0.00547	<0.00606	<0.00416	<0.241	<7.43	<7.43	7,240	10.1
	11/6/2018	24 to 25	<0.00792	0.00525 J	<0.00539	<0.00597	0.00525 J	<0.237	<7.53	<7.53	8,940	11.3
	11/6/2018	0 to 1	<0.00789	<0.00408	<0.00538	<0.00595	<0.00408	<0.236	<7.53	<7.53	14.7 J	10.1
	11/6/2018	4 to 5	<0.00902	<0.00467	<0.00615	<0.00681	<0.00467	<0.270	<7.56	<7.56	197	6.47
	11/6/2018	9 to 10	<0.00886	<0.00448	0.0153 J	0.213	0.228	9.76	<7.54	<7.54	1,630	5.9
	11/6/2018	14 to 15	<0.00886	<0.00459	<0.00604	<0.00669	<0.00459	4.35	<7.54	<7.54	1,640	6.73
	11/6/2018	19 to 20	<0.00785	<0.00408	<0.00535	0.0503	0.0503	1.98 J	<7.52	<7.52	1,630	11
	11/6/2018	24 to 25	<0.00900	0.00598 J	<0.00614	<0.00679	0.00598 J	1.13 J	<7.47	<7.47	1,570	9.75
	10/16/2019	0 to 1	0.000626	0.00137	0.00101	0.00112	0.0041260	0.0645	12.9 J	10.5 J	19500	4.6
SB-9	10/16/2019	4 to 5	0.000623	0.00136	0.00101	0.00112	0.004113	0.0654	7.69	7.69	3030	11.1
	10/16/2019	9 to 10	0.000616	0.00135	0.000998	0.00111	0.004074	0.0639	7.69	7.69	1180	28.6
	10/16/2019	14 to 15	0.00058	0.00127	0.000939	0.00104	0.003829	0.0634	7.55	7.55	2620	29.1
	10/16/2019	19 to 20	0.000627	0.00137	0.00102	0.00113	0.004147	0.0652	7.59	7.59	2750	12.2
	10/16/2019	24 to 25	0.0005577	0.00126	0.000934	0.00103	0.0037817	0.0631	7.5	7.5	1940	12
	10/16/2019	0 to 1	0.000586	0.00128	0.000948	0.00105	0.003864	0.0639	7.51	7.51	5.99	9.7
SB-10	10/16/2019	4 to 5	0.000607	0.00133	0.000983	0.00109	0.00401	0.0652	7.49	7.49	89.2	5.8
	10/16/2019	9 to 10	0.00061	0.00134	0.000988	0.00109	0.004028	0.0642	7.58	7.58	868	7.7
	10/16/2019	14 to 15	0.000608	0.00133	0.000985	0.00109	0.004013	0.0633	7.59	7.59	1010	26.8
	10/16/2019	19 to 20	0.00058	0.00123	0.000908	0.001	0.003696	0.064	7.67	7.67	1300	25.2
	10/16/2019	24 to 25	0.000621	0.00136	0.00101	0.00111	0.004101	0.0646	7.61	7.61	1340	12.9
	10/16/2019	0 to 1	0.000609	0.00133	0.000986	0.00109	0.004015	0.0647	7.6	7.6	22.1	14.6
SB-11	10/16/2019	4 to 5	0.000662	0.00145	0.00107	0.00119	0.004372	0.0651	7.65	7.65	442	23

Table 5
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2023 Site Assessment Report
Chevron Environmental Management Company
Pardue Farms 27-12
Eddy County, New Mexico

Boring Location ID	Sample Date	Sample Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH-GRO (mg/Kg)	TPH-DRO (mg/Kg)	TPH-ORO (mg/Kg)	Chloride (mg/Kg)	% Moisture
NMAC Closure Criteria ^(a)			10	--	--	--	50	--	100	--	600	--
MW-6	11/16/2020	0 to 1	<0.000625	<0.00137	<0.001010	<0.001120	<0.000625	<0.5720	8.73	59.6	59.7 J F 1	1.8
	11/16/2020	1 to 2	<0.000694	<0.00152	<0.001120	<0.001240	<0.000694	<0.7290	10.5	40.3	44.4 J	14.4
	11/16/2020	2 to 3	<0.000685	<0.00150	<0.001110	<0.001230	<0.000685	<0.6540	<1.81	29.5	64.6 J	5.8
	11/16/2020	3 to 4	<0.0006	<0.00131	<0.000971	<0.001080	<0.000600	<0.7490	7.96 J	36.2	97.2 J	21.1
	11/16/2020	9 to 10	<0.000648	<0.00142	<0.001050	<0.001160	<0.000648	<0.6900	<1.87	24.6	82.8 J	8.8
	11/16/2020	14 to 15	<0.000605	<0.00132	<0.000979	<0.001080	<0.000605	<0.8620	<2.37	<6.94	477	28.4
	11/16/2020	19 to 20	<0.000557	<0.00122	<0.000901	<0.000998	<0.000557	<0.6760	<1.93	<5.65	1,230	11.6
	11/16/2020	24 to 25	<0.000623	<0.00136	<0.001010	<0.001120	<0.000623	<0.6560	24.2	123	920	15
	11/8/2021	0 to 1	0.000704 J	<0.00148	0.000957 J	0.00335 J	0.001661	0.0266 J	3.09	0.66	110	6.4
	11/8/2021	1 to 2	<0.000799	<0.00222	<0.00126	<0.00151	<0.000799	0.0324 J	<2.18	<0.371	1,430	26.2
SB-12	11/8/2021	2 to 3	<0.000706	<0.00197	<0.00111	<0.00133	<0.000706	<0.0272	<2.02 J6	<0.344	2,100	20.4
	11/8/2021	3 to 4	<0.000663	<0.00185	<0.00105	<0.00125	<0.000663	0.0275 J	<1.95	<0.331	923	17.3
	11/8/2021	4 to 5	<0.000730	<0.00203	<0.00115	<0.00138	<0.000730	0.0423 B J	<2.06	<0.351	1,690	22
	11/8/2021	9 to 10	<0.000728	<0.00203	<0.00115	<0.00137	<0.000728	0.0417B J	<2.06	<0.350	2,030	21.8
	11/8/2021	13 to 14	<0.000588	<0.00164	<0.000928	<0.00111	<0.000588	<0.0297 B J	4.36 J	0.717 J	1910 J5	11.5
SB-13	11/8/2021	0 to 1	<0.000625	<0.00174	<0.000986	<0.00118	<0.000625	0.0338 B J	2.26 J	2.44 J	<19.10	14.4
	11/8/2021	1 to 2	<0.000743	<0.00207	<0.00117	<0.00140	<0.000743	0.0360 B J	2.13 J	<0.355	431	22.8
	11/8/2021	2 to 3	<0.000800	<0.00223	<0.00126	<0.00151	<0.000800	0.0420 B J	<2.18	<0.371	831	26.2
	11/8/2021	3 to 4	<0.000807	<0.00225	<0.00127	<0.00152	<0.000807	0.0381 B J	<2.20	0.653 B J	3,070	26.7
	11/8/2021	4 to 5	<0.000663	<0.00185	<0.00105	<0.00125	<0.000663	0.0344 B J	<1.95	<0.331	904	17.3
SB-14	11/8/2021	9 to 10	<0.000726	<0.00202	<0.00115	<0.00137	<0.000726	<0.0277	<2.05	<0.350	1,490	21.6
	11/8/2021	13 to 14	<0.000664	<0.00185	<0.00105	<0.00125	<0.000664	<0.0263	<1.95	<0.332	1,990	17.4
	11/8/2021	0 to 1	<0.000656	<0.00183	<0.00104	<0.00124	<0.000656	<0.0261	2.06 J	6.08 B	11.8 J	16.8
	11/8/2021	1 to 2	<0.000737	<0.00205	<0.00116	<0.00139	<0.000737	<0.0279	<2.07	0.986 B J	12.3 J	22.3
	11/8/2021	2 to 3	<0.000639	<0.00178	<0.00101	<0.00120	<0.000639	<0.0257	<1.91	<0.324	<10.9	15.5
SB-15	11/8/2021	4 to 5	<0.000577	<0.00161	<0.00091	<0.00109	<0.000577	<0.0243	<1.80	<0.306	583	10.6
	11/8/2021	7 to 8	<0.000852	<0.00237	<0.00135	<0.00161	<0.000852	<0.0361	<2.27	<0.387	280	29.2
	11/8/2021	0 to 1	<0.000674	<0.00188	<0.00106	<0.00127	<0.000674	<0.0265	<1.97	0.782 B J	591	18.2
	11/8/2021	1 to 2	<0.000754	<0.00210	<0.00119	<0.00142	<0.000754	<0.0283	<2.10	0.626 B J	1,640	23.4
	11/8/2021	2 to 3	<0.000581	<0.00162	<0.000918	<0.00110	<0.000581	<0.0244	4.35 J	10.7 B	2,520	10.9
SB-16	11/8/2021	3 to 4	<0.000588	<0.00164	<0.000928	<0.00111	<0.000588	<0.0245	<1.82	0.766 B J	2,720 V	11.5
	11/8/2021	4 to 5	<0.000773	<0.00215	<0.00122	<0.00146	<0.000773	<0.0288	<2.14	<0.364	372	24.7
	11/8/2021	9 to 10	<0.000686	<0.00191	<0.00108	<0.00129	<0.000686	<0.0268	2.95 J	<0.338	1,940	18.9
	11/8/2021	14 to 15	<0.000687	<0.00191	<0.00108	<0.00129	<0.000687	<0.0268	51.5	5.28 B	1,460	19
	11/9/2021	0 to 1	<0.000661	<0.00184	<0.00104	<0.00125	<0.000661	<0.0262	2.85 J	7.54	32	17.2
SB-16	11/9/2021	1 to 2	<0.000767	<0.00214	<0.00121	0.00145	<0.000767	<0.0287	29.3	43.5	1,000	24.3
	11/9/2021	2 to 3	<0.000685	<0.00191	<0.00108	<0.00129	<0.000685	<0.0267	10.5	10.8	6,900	18.9
	11/9/2021	3 to 4	<0.000628	<0.00131	<0.00084	<0.00106	<0.000628	<0.0301	3.71	2.98	4,010	27.8
	11/9/2021	4 to 5	<0.000827	<0.00230	<0.00130	<0.00156	<0.000827	<0.0300	<2.23	1.38 J	4,800	27.7
	11/9/2021	9 to 10	<0.000790	<0.00220	<0.00125	<0.00149	<0.000790	<0.0292	<2.17	0.767 J	2,260	25.6
SB-17	11/9/2021	0 to 1	<0.000558	<0.00155	<0.000880	<0.00105	<0.000558	0.0944 J V3	4.55	13.7	<10.1	8.9
	11/9/2021	1 to 2	<0.000633	<0.00176	<0.000998	<0.00119	<0.000633	0.0299 B J	3.57 J	9.07	<10.8	15
	11/9/2021	2 to 3	<0.000519	<0.00144	<0.000819	<0.000978	<0.000519	0.0505 B J	1.82 J	6.44	360	5.3
	11/9/2021	3 to 4	<0.000540	<0.00150	<0.000852	<0.00102	<0.000540	0.0240 B J	<1.74	7.51	1,590	7.2
	11/9/2021	4 to 5	<0.000783	0.0411 J	0.00193 J	0.00805 J	0.0411 J	0.0519 B J	<2.15	1.63 J	1,640	25.3
SB-18	11/9/2021	9 to 10	<0.000578	0.00187 J	<0.000912	0.00183 J	0.00187 J	<0.0243	<1.80	0.615 J	740	10.6
	11/9/2021	0 to 1	<0.000778	<0.00217	<0.00123	<0.00147	<0.000778	<0.0289	<2.14	3.26 J	24.9 J	24.9
	11/9/2021	1 to 2	<0.000721	<0.00201	<0.00114	<0.00136	<0.000721	0.0278 B J	<2.05	3.36 J	284	21.4
	11/9/2021	2 to 3	<0.000516	<0.00144	0.000814	<0.000972	<0.000516	<0.0228	<1.69	1.15 J	1,320	5
	11/9/2021	3 to 4	<0.000539	<0.00150	<0.000850	<0.00102	<0.000539	<0.0234	<1.73	0.929 J	1,780	7.1
SB-19	11/9/2021	4 to 5	<0.000752	<0.00209	<0.00119	<0.00142	<0.000752	0.0401 B J	<2.10	3.97 J	208 J3 J5	23.3
	11/9/2021	0 to 1	<0.000717	<0.00200	<0.00113	<0.00135	<0.000717	0.0288 B J	3.17 J	13.4	22.8 J	21.1
	11/9/2021	1 to 2	<0.000513	<0.00143	<0.000809	<0.00103	<0.000513	<0.0218	<1.68	8.68	15.1 J	4.6
	11/9/2021	2 to 3	<0.000516	<0.00144	<0.000814	<0.000972	<0.000516	<0.0228	<1.69	4.46	95	4.6
	11/9/2021	3 to 4	<0.000526	<0.00147	<0.000831	<0.000992	<0.000526	<0.0246	<1.71	7.57	338	6
SB-20	11/9/2021	4 to 5	<0.000561	<0.00156	<0.000886	<0.00106	<0.000561	0.0295 B J	<1.77	3.18 J	375	9.2
	11/9/2021	6 to 7	<0.000566	<0.00158	<0.000894	<0.00107	<0.000566	<0.0266 B J	<1.78	2.00 J	1,800	9.6
	11/9/2021	0 to 1	<0.000490	<0.00137	<0.000774	<0.000924	<0.000490	0.0296 B J	<1.65	8.13	<9.81	2.4
	11/9/2021	1 to 2	<0.000503	<0.00140	<0.000794	<0.000948	<0.000503	<0.0225	<1.67	3.14 J	9.58 J	3.7
	11/9/2021	2 to 3	<0.000603	<0.00168	<0.000952	<0.00114	<0.000603	<0.0249	<1.85	3.45 J	20	12.7
SB-20	11/9/2021	3 to 4	<0.000625	<0.00174	<0.000987	<0.00118	<0.000625	0.0291 B J	2.14 J	6.07	374	14.5
	11/9/2021	4 to 5	<0.000496	<0.00138	<0.000782	<0.000934	<0.000496	<0.0224	5.19	20.5	28	3
	11/9/2021	6 to 7	<0.000618	<0.00172	<0.000975	<0.00116	<0.000618	<0.0252	<1.87	0.902 J	406	13.9
	11/9/2021	0 to 1	<0.000642	<0.00179	<0.00101	<0.00121	<0.000642	<0.0258	3.08 J	12.8	14.0 J	15.8
	11/9/2021	1 to 2	<0.000533	<0.00148	<0.000841	<0.00100	<0.000533	<0.0232	<1.72	3.62 B J	13	6.6
SB-21	11/9/2021	2 to 3	<0.000491	<0.00137	<0.000775	<0.000925	<0.000491	<0.0223	<1.65	3.53 B J	106	2.5
	11/9/2021	3 to 4	<0.000496	<0.00138	<0.000782	<0.000934	<0.000496	<0.0224	<1.66	3.73 B J	132	3
	11/9/2021	6 to 7	<0.000614	<0.00171	<0.000970	<0.00116	<0.000614	<0.0251	<1.86	2.01 B J	425	13.6
	11/9/2021	0 to 1	<0.000626	<0.00174	<0.000989	<0.00110						

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Eddy County, New Mexico



Boring Location ID	Sample Date	Samp. Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH-GRO (mg/Kg)	TPH-DRO (mg/Kg)	TPH-ORO (mg/Kg)	Chloride (mg/Kg)	% Moisture	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			NMAC Closure Criteria ^(a)			10	--	--	50	--	100	--	600
SB-28	3/28/2023	9 to 10	<0.000772	<0.00215	<0.00122	<0.00146	<0.000772	<0.0288	<2.13	<0.363	718	--	
	3/28/2023	14 to 15	<0.000544	<0.00151	<0.000859	<0.00103	<0.000544	<0.0235	<1.74	1.92 J	2,870	--	
	3/28/2023	19 to 20	<0.000563	<0.00157	<0.000889	<0.00106	<0.000563	<0.0239	<1.78	2.15 J	1,520	--	
	3/28/2023	23 to 24	<0.000543	<0.00151	<0.000857	<0.00102	<0.000543	<0.0235	<1.74	2.10 J	951	--	

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Boring Location ID	Sample Date	Sample Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH-ORO	Chloride	% Moisture
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMAC Closure Criteria ^(a)			10	--	--	--	50	--	100	--	600	--
MW-7	3/28/2023	0 to 1	<0.000569	<0.00158	<0.000898	<0.00107	<0.000569	0.0258 J	<1.78	0.307 J	<10.6	--
	3/28/2023	2	0.00116 J	0.00701	0.00113 J	0.00507 J	0.01437	<0.0257	<1.90	0.960 J	<11.0	--
	3/28/2023	3 to 4	<0.000645	<0.00180	<0.00102	<0.00122	<0.000645	<0.0258	<1.92	<0.326	76.3	--
	3/28/2023	9 to 10	<0.000499	<0.00139	<0.000787	<0.000940	<0.000499	<0.0224	<1.66	<0.283	75.8	--
	3/28/2023	14 to 15	<0.000619	<0.00172	<0.000977	<0.00117	<0.000619	<0.0252	<1.87	<0.319	22.6 J	--
	3/28/2023	19 to 20	<0.000577	<0.00161	<0.000910	<0.00109	<0.000577	<0.0242	<1.80	<0.306	26.2	--
	3/28/2023	24 to 25	<0.000564	<0.00157	<0.000890	<0.00106	<0.000564	<0.0239	<1.78	<0.302	22.0 J	--
	3/28/2023	29 to 30	<0.000601	<0.00167	<0.000949	<0.00113	<0.000601	<0.0248	<1.84	1.91 J	37.6	--
	3/28/2023	34 to 35	<0.000700	<0.00195	<0.00111	<0.00132	<0.000700	<0.0271	<2.01	<0.342	265	--
	3/28/2023	39 to 40	<0.000771	<0.00215	<0.00122	<0.00145	<0.000771	<0.0287	<2.13	<0.363	224	--
MW-8	3/27/2023	0 to 1	<0.000564	<0.00157	0.00278 J	0.00896	0.01174	0.0348 J	5.92	27.5	76.5	--
	3/27/2023	2	<0.000631	<0.00176	<0.000996	0.00459 J	0.00459	0.0375 J	<1.89	3.49 J	238	--
	3/27/2023	4	<0.000595	<0.00166	0.00261 J	0.00240 J	0.00501	0.0302 J	2.15 J	3.56 B J	1,650	--
	3/27/2023	9 to 10	<0.000698	<0.00194	<0.00110	0.00266 J	0.00266	<0.0270	<2.01	0.928 B J	998	--
	3/27/2023	14 to 15	<0.000533	<0.00149	0.00175 J	0.00286 J	0.00461	0.0288 J	1.86 J	2.72 B J	962	--
	3/27/2023	19 to 20	<0.000795	<0.00221	0.00180 J	0.00340 J	0.0052	0.0466 J	<2.17	1.20 B J	931	--
	3/27/2023	24 to 25	<0.000661	0.00202 J	0.00160 J	0.00286 J	0.00648	0.0279 J	3.05 J	5.54	983	--
	3/27/2023	29 to 30	<0.000865	0.00287 J	0.00321 J	0.00358 J	0.00966	<0.0309	2.45 J	3.98 B J	960	--
	3/27/2023	34 to 35	<0.00221	<0.00288	<0.00163	0.00334 J	0.00334	<0.0348	6.56	9.80	752	--
	3/27/2023	39 to 40	<0.000790	<0.00220	0.00140 J	0.00181 J	0.00321	0.0292 J	2.26 J	2.97 B J	817	--
	3/27/2023	44 to 45	<0.000837	0.00235 J	0.00177 J	0.00270 J	0.00682	<0.0302	6.91	7.07	595	--
	3/27/2023	49 to 50	<0.000792	<0.00221	<0.00125	0.00305 J	0.00305	<0.0292	<2.17	2.26 B J	790	--
	3/27/2023	54 to 55	<0.000789	0.00284 J	<0.00125	0.00423 J	0.00707	<0.0292	5.72	8.72	674	--

Notes

Value	Analytical value is greater than or equal to NMAC closure criteria
%	Percent
mg/kg	Milligram(s) per kilogram
<	Analyte was not detected above the specified method reporting limit
ft bgs	Below ground surface
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
TPH-GRO	Total Petroleum Hydrocarbons as Gasoline Range Organics
TPH-DRO	Total Petroleum Hydrocarbons as Diesel Range Organics
TPH-ORO	Total Petroleum Hydrocarbons as Oil Range Organics
NMAC	New Mexico Administrative Code
MS/MSD	Matrix spike/matrix spike duplicate

Lab Qualifiers:

B The same analyte is found in the associated blank.

D The sample(s) were duplicated due to targets detected over the highest point of the calibration curve, or due to matrix interference

J The target analyte was positively identified below the quantitation limit and above the detection limit

J3 The associated batch QC was outside the established quality control range for precision

X MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix/chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration

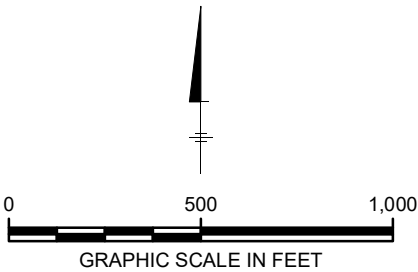
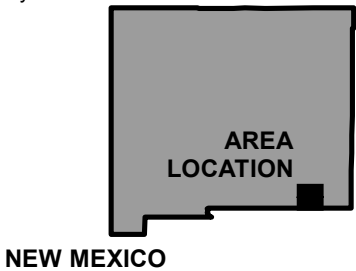
Notes:

(a) Title 19, Chapter 15 of the NMAC for Natural Resources and Wildlife, Oil and Gas, and Releases, 19.15.29 NMAC, August

Document Path: T:_ENV\Chevron_PardueFarm\GIS\ArcMap_MXD\2023\March and July 2023\Fig1 - Site Location Map.mxd



Service Layer Credits: Source: Esri, Maxar, Earthstar
Geographics, and the GIS User Community



CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
PARDUE FARMS 27-12: HES TRANSFER SITE
EDDY COUNTY, NEW MEXICO
PARDUE FARMS 27-12 ANNUAL SITE ASSESSMENT REPORT

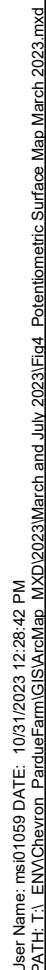
SITE LOCATION MAP



FIGURE
1



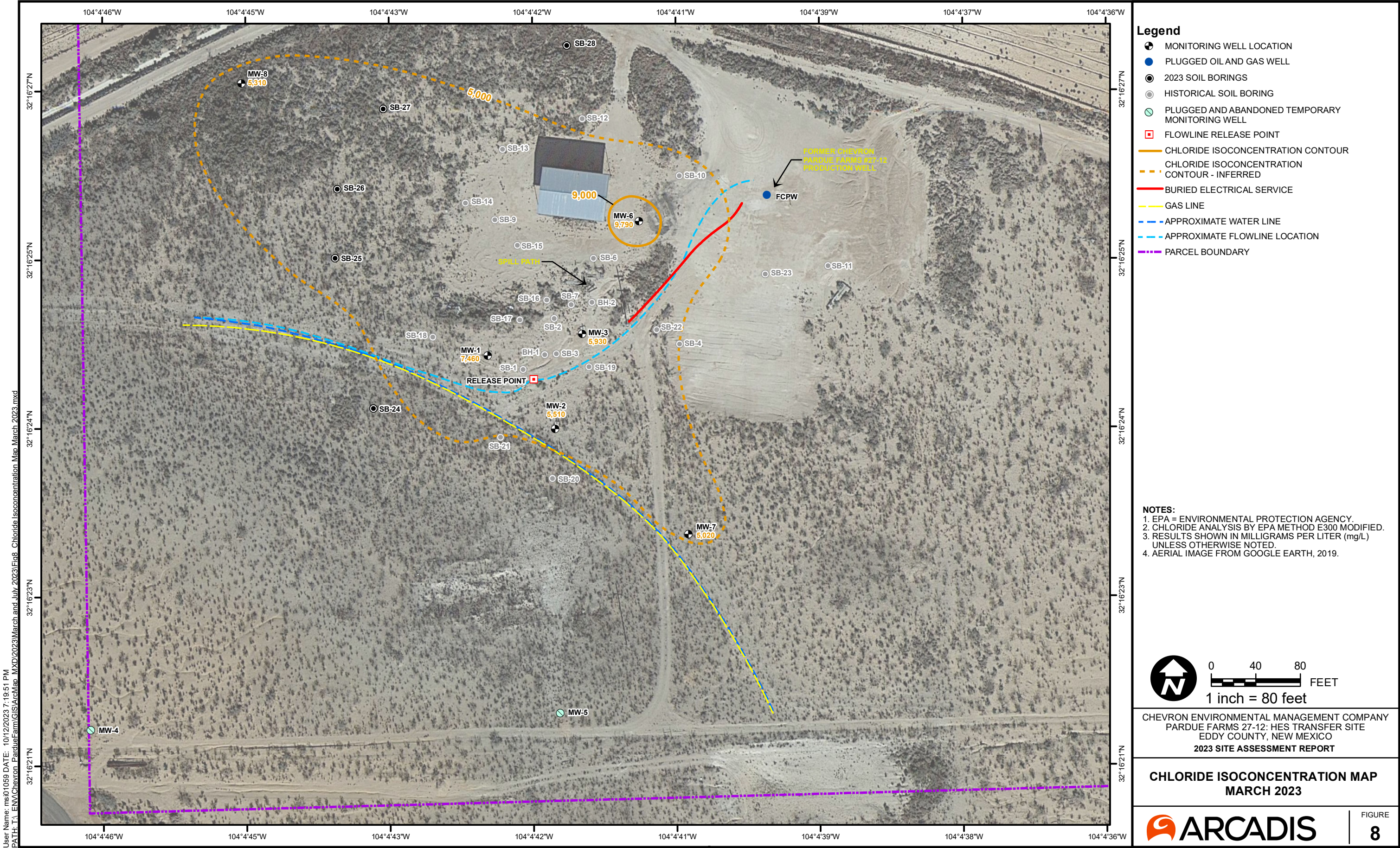






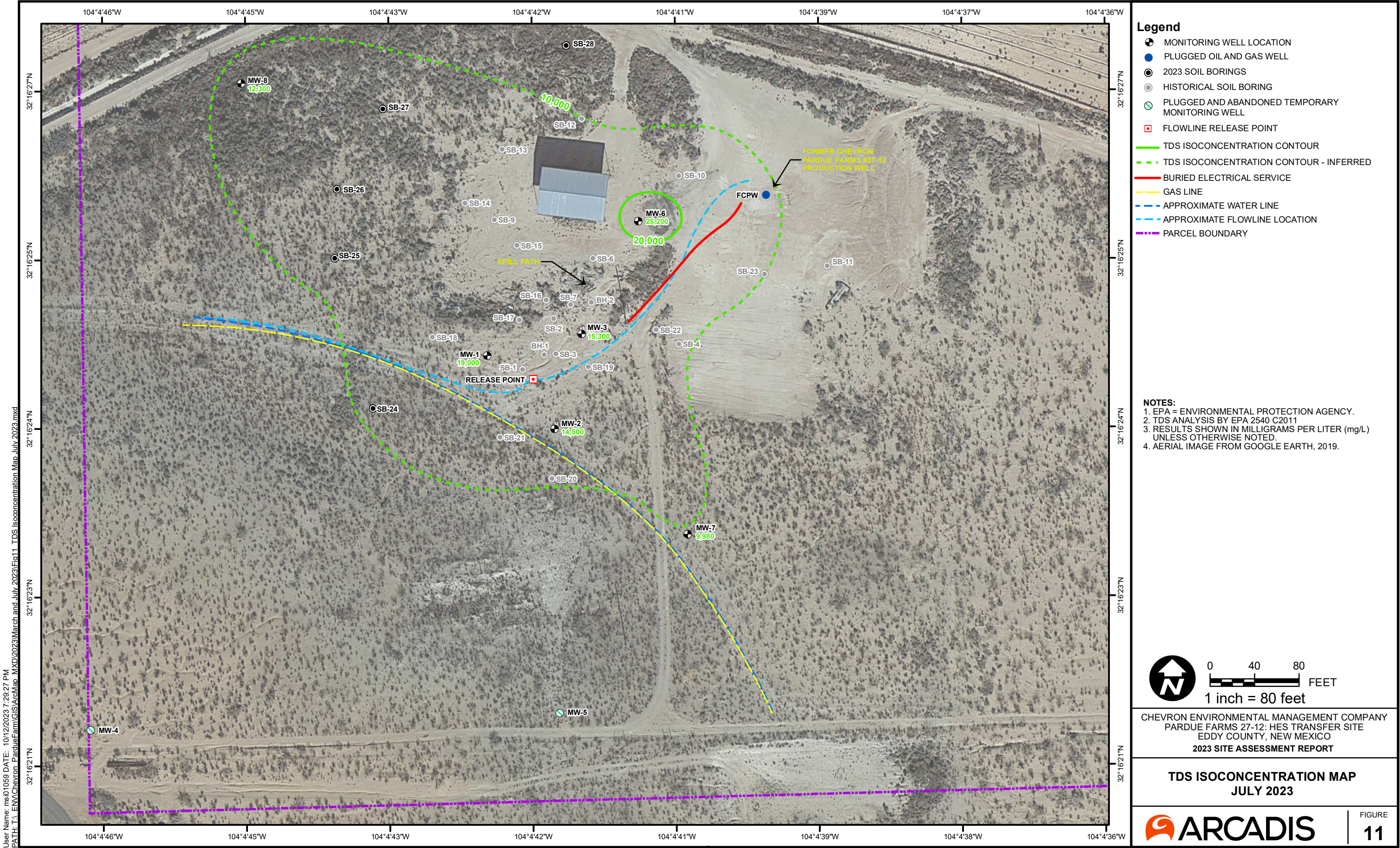














SITE DESCRIPTION AND BACKGROUND

The following site description and background section provides an overview of the site location and regional setting including geology, hydrogeology, nearby drinking water wells, surface water, and climate.

Site Location and Description

The Site is located approximately one mile southeast of Loving, New Mexico along the northeast quarter of the southwest quarter of Section 27, Township 23-South, Range 28-East. The properties surface ownership is privately owned and Chevron Midcontinent, L.P. hold the oil and gas lease.

The Site is located on the western edge of the Permian Basin, a 75,000-square-mile area in Texas and New Mexico that is populated by numerous oil and gas production wells. In New Mexico, the Permian Basin extends to Roosevelt County to the North, Chaves and Eddy County to the west, and to Texas to the south.

Nearby Water Wells and Surface Water

Based on review of satellite imagery, the Pecos River is located approximately 2.5 miles due northeast of the site. The southwestern edge of a salt-lake is located approximately 3.25 miles to the northeast. (GoogleEarth 2018). In November 2018, Arcadis field staff verified that there are no surface-water bodies located within 1,000 feet of the Site.

In January 2019, Arcadis reviewed information obtained from the New Mexico Office of the State Engineer (NMOSE) online database (NMOSE 2019), which indicated there is one water supply well located approximately 310 feet to the southwest from the Pardue Farms 27-12 oil well. The primary use for this water well is for domestic use and livestock watering. The NMOSE online database identified 419 water-supply wells within a 5-mile radius of the site (NMOSE 2019).

Climate

Monthly average temperatures near the Site vary from a minimum of 33.1 degrees Fahrenheit (°F) in February to a maximum of 95.9°F in June (Western Regional Climate Center [WRCC] Carlsbad Cavern City Airport, New Mexico [291475] weather station). Average annual precipitation recorded for the area of the Site from the available WRCC period of record between 1930 and 2016 was approximately 12.84 inches per year (WRCC 2019a).

Due to the arid climate, the Site experiences low precipitation and high evaporation rates. Average annual evaporation from the available WRCC period of record between 1914 and 2005 was approximately 87.68 inches per year (WRCC 2019b).

Regional Geology and Hydrogeology

The Site elevation is approximately 3,070 feet above mean sea level (ft amsl) and is located in the Paleozoic Era Delaware Basin with the Pecos River and the Grame Ridge to the east, the Guadalupe Mountains to the west, and the Capitan Reef limestone bed to the north (Bachman 1980). The Delaware Basin is overlain with



evaporites, primarily gypsum and halite, from the Castile and Salado Formations, followed by the carbonate, evaporite, and clastic sediments of the Rustler Formation, and lastly, by the red beds of the Dewey Lake Formation. The Delaware Basin underwent extensive erosion and dissolution throughout the Mesozoic and Cenozoic Eras and resulted in an ancient karst plain that was subsequently filled in by alluvial deposits known as the Pecos Valley Alluvium (TWBD 2019). The Pecos Valley Alluvium is predominantly composed of surficial deposits of transmissive sands and gravels mixed with low-permeability clays, primarily from the Pecos River (Barrol 2004).

The main source of fresh groundwater in the area comes from the Pecos Valley Alluvium Aquifer which has a thickness of approximately 100 to 200 feet with a saturated thickness of up to 150 feet (Barrol 2004). Average depth to water based on the current wells in the vicinity of the Site is approximately 54 feet below ground surface (bgs) (NMOSE 2019).

Water-supply wells are completed in the Pecos Valley Alluvium Aquifer which consists primarily of Quaternary alluvial and eolian sediments (TWBD 2010) as well as surficial deposits from the Pecos River (Barrol 2004). The aquifer is primarily recharged by the Pecos River as well as "on-farm return flow" water. The regional groundwater flow direction is generally towards the east-southeast (Barrol 2004).

INITIAL RELEASE RESPONSE

A release, initially estimated to be less than 5 bbls of oil and produced water, occurred at the Site in May 2010 due to a pinhole caused by internal corrosion located on the top side of a subsurface flowline. Chevron personnel from the Mid-Continent Business Unit (MCBU) stopped the release and conducted initial response activities. Chevron MCBU personnel subcontracted a third-party company to excavate the visually affected soil. Excavation activities were conducted in June 2010 during which Chevron MCBU personnel noted the release was greater than 5 bbls. Two boreholes, BH-1 and BH-2, (total depths of 26 feet bgs and 21 feet bgs, respectively), were installed and discrete soil samples were collected. After collecting the soil samples, the excavated area was reportedly backfilled with imported soil. Pursuant to New Mexico Oil Conservation Division (NMOCD) requirements (NMOCD 1993), Chevron MCBU submitted a Notification of Release and Correction (Form C-141) to the NMOCD, detailing the location, volume of release, and initial and planned cleanup efforts for the site.

Soil and groundwater assessment activities were conducted in April 2012 by Conestoga-Rovers & Associated (CRA). A total of three soil borings (SB-1, SB-2, and SB-3) and three groundwater monitoring wells (MW-1, MW-2, and MW-3) were installed on April 9-10, 2012.

2018 SOIL INVESTIGATION

In November 2018, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. Soil boring locations were selected based on the results of previous soil sampling activities completed at the Site in April 2012, locations of pipelines and other equipment at the Site, and the extent of the release as documented by Chevron MCBU personnel during the initial response activities.

To evaluate the potential extent of impacts to soil at the Site, Arcadis advanced the five soil borings (SB-1 through SB-5) on November 11, 2018.



Prior to conducting drilling activities, each boring location was cleared for subsurface utilities with an air knife. The air knife could not be advanced more than 2 to 3 inches bgs due to the presence of a thick caliche layer. Each soil boring was then advanced to a total depth of approximately 25 feet bgs using air rotary drilling technology.

Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). Arcadis used Quantab® field screening methods to quantify chloride concentrations in soil prior to sample collection (Boyer 2004). Field personnel recorded Quantab® readings, soil types, and other pertinent geologic data on boring logs. No staining or elevated photo ionizing device (PID) readings were observed. Lithologic data indicated the subsurface material consisted primarily of gravely sand clays from approximately 0 to 10 feet bgs followed by sandy caliche layers from approximately 10 to 25 feet bgs. Six soil samples were collected from each boring location beginning at a depth of 0-1' foot bgs and continuing at 5- foot intervals from 5 to 25 feet bgs. A total of 30 samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and submitted under appropriate chain of custody protocols to Xenco Laboratories in Lubbock, TX. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8021B
- Total petroleum hydrocarbons (TPH) – diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B
- Moisture content by SM 2540B

Following soil sample collection, the boreholes were filled with soil cuttings from total depth to ground surface. The ground surface was restored to match the surrounding conditions.

Soil Sample Results

The analytical data from the soil samples collected in November 2018 were compared to the closure criteria (CC) outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) concerning natural resources and wildlife, oil and gas, and releases which became effective on August 14, 2018. The analytical results for the 30 soil assessment samples are summarized below:

- Benzene was not detected above the laboratory reporting limit in any of the 30 soil samples
- Toluene was detected in three soil samples collected at 24 to 25 feet bgs with estimated concentrations of 0.00561 milligrams per kilogram (mg/kg) (SB-4), 0.00525 mg/kg (SB-7), and 0.00598 mg/kg (SB-8)
- Ethylbenzene was detected in one soil sample collected from SB-8 at 9 to 10 feet bgs with an estimated concentration of 0.0153 mg/kg
- Total Xylenes were detected in three of the 30 soil samples collected with concentrations ranging from an estimated 0.00741 mg/kg at SB-6 (0 to 1-foot bgs) to 0.213 mg/kg at SB-8 (9 to 10 feet bgs)
- Total BTEX compounds were detected in six of the 30 soil samples collected with concentrations ranging from an estimated 0.00525 mg/kg at SB-7 (24 to 25 feet bgs) to 0.228 mg/kg at SB-8 (9 to 10 feet bgs). Total BTEX concentrations did not exceed the 2018 NMAC CC of 50 mg/kg.
- Chloride was detected in each of the 30 soil samples collected from the Site with concentrations ranging from an estimated 14.7 mg/kg at SB-8 (0 to 1-foot bgs) to 8,940 mg/kg at SB-7 (24 to 25 feet bgs). Chloride concentrations exceeded the 2018 NMAC CC of 600 mg/kg in each of the samples collected from below four feet bgs at each soil boring location



- TPH-GRO was detected in five of the 30 soil samples collected with concentrations ranging from an estimated 0.565 mg/kg at SB-7 (2 to 3 feet bgs) to 9.76 mg/kg at SB-8 (9 to 10 feet bgs)
- TPH-DRO was detected in two of the 30 soil samples collected with estimated concentrations of 16.5 mg/kg at SB-5 (0 to 1-foot bgs) to 20.1 mg/kg at SB-6 (24 to 25 feet bgs)
- TPH-ORO was not detected above the laboratory reporting limit in any of the 30 soil samples.

The 2018 NMAC CC for total TPH compound (summation of ORO, GRO, and DRO) concentrations is 100 mg/kg for a site with groundwater less than 50 feet bgs. Total TPH concentrations did not exceed the CC in any of the 30 soil samples collected during the 2018 soil investigation.

2018 GROUNDWATER ASSESSMENT

Monitoring Well Installation and Groundwater Sampling

Soil and groundwater assessments conducted by CRA in April 2012 suggested potential impacts near groundwater at Pardue 27-12. Arcadis installed temporary groundwater monitoring well MW-4 on November 5, 2018. This temporary monitoring well was drilled southwest from the release area to confirm background concentrations in the aquifer and evaluate the potential impact of groundwater.

The monitoring well location was hand cleared using air knife to a minimum depth of 8 feet bgs and was advanced to a total of 58 feet bgs using air rotary drilling technology. The monitoring well was approved by the NMOSE for construction within the open borehole using nominal 4-inch outside diameter (OD) schedule 40 poly vinyl chloride (PVC) casing. The screened interval extended across the saturated thickness of the aquifer (18 feet to 58 feet bgs) and was constructed of 0.10-inch machine-slotted PVC casing. Depth to groundwater was measured following installation at approximately 20.50 feet bgs.

Soil was continuously logged for lithologic characteristics according to the USCS. After the temporary well installation and development, one groundwater sample and one duplicate were collected from the newly installed well in laboratory-supplied containers and submitted under appropriate chain of custody protocols to Xenco for the analysis of the following:

- BTEX by EPA Method 8021B
- TPH - GRO, DRO, ORO by EPA Method 8015M
- Chloride by EPA Method 300.0
- Total Dissolved Solids (TDS) by Standard Method 2540C

MW-4 was plugged using 3/8-inch hydrated bentonite chips to approximately 0.5-foot bgs. The ground surface was restored to match the surrounding conditions. Soil cuttings were transported offsite to R360 Environmental Solutions in Hobbs, NM for disposal in accordance with state and federal regulations on December 11, 2018.

Groundwater Sample Results

- Groundwater analytical results were compared the Human Health Standards outlined in Title 20, Chapter 6, Part 2 (20.6.2) of the NMAC concerning environmental protection, water quality, ground and surface



water protection which became effective on December 1, 1995. The analytical results for the groundwater sample collected from MW-4 in November 2018 are summarized below.

- Chloride was detected at a concentration of 3,200 milligrams per liter (mg/L) in the groundwater sample collected from MW-4 which exceeded the NMAC human health standard value of 250 mg/L.
- BTEX and TPH compounds were not detected above the laboratory reporting limit in the groundwater sample which is below the 2018 NMAC human health standards. Total dissolved solids were detected at a concentration of 5,400 mg/L which is above the 2018 NMAC human health standard value of 1,000 mg/L.

2019 SOIL INVESTIGATION

In October 2019, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. Soil boring locations were selected based on the results of previous soil sampling activities completed at the Site in April 2012 and November 2018, locations of pipelines and other equipment at the Site, and the extent of the release as documented by Chevron MCBU personnel during the initial response activities. To evaluate the potential extent of impacts to soil at the Site, Arcadis advanced three shallow soil borings (SB-9 through SB-11) and one temporary monitoring well (MW-5) on October 15 through 16, 2019.

Prior to conducting drilling activities, each boring location was cleared for subsurface utilities with an air knife. Each soil boring was then advanced to a total depth of approximately 25 feet bgs using air rotary drilling technology, and temporary monitoring well MW-5 was advanced to a total depth of 45 feet bgs. Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). No staining or elevated (<3.0 ppm) photo ionizing device (PID) readings were observed. Lithologic data indicated the subsurface material consisted primarily of gravely sand clays from approximately 0 to 10 feet bgs followed by sandy caliche layers from approximately 10 to 25 feet bgs, and clayey silt layers from 26 to 45 feet bgs. Six soil samples were collected from each boring location, beginning at a depth of 0-1' foot bgs and continuing at 5- foot intervals from 5 to 25 feet bgs, and nine soil samples were collected from temporary monitoring well MW-5, beginning at a depth of 0-1' foot bgs and continuing at 5- foot intervals from 5 to 40 feet bgs. A total of 27 samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and were shipped by Fed-Ex priority overnight to Eurofins TestAmerica analytical laboratory under chain-of-custody protocol. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8260B
- Total petroleum hydrocarbons (TPH) – diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B

Following soil sample collection, the boreholes were filled with soil cuttings from total depth to ground surface. The ground surface was restored to match the surrounding conditions. Temporary monitoring well MW-5 was drilled via Air Rotary drilling technology to a total depth of 57.43 ft bgs and was constructed of 2-inch diameter polyvinyl chloride (PVC) with 10 feet of 0.010-inch slotted screen from 37.43 to 47.43 ft bgs. MW-5 was completed with a 2-foot PVC casing above land surface. MW-5 was developed by over pumping the well. Soil cuttings and development water produced during the installation of temporary well MW-5 were drummed and transported to R360 Halfway, a select for use facility, for disposal. Temporary monitoring well MW-5 was plugged in accordance with the approved well application and plugging plan of operations under C-4351 POD-1, presented in Appendix C of the 2019 Site Assessment Report.



Soil Sample Results

The analytical data from the soil samples collected in October 2019 were compared to the closure criteria (CC) outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) concerning natural resources and wildlife, oil and gas, and releases which became effective on August 14, 2018. The analytical results for the 27 soil assessment samples are summarized below:

- BTEX concentrations were reported below the NMAC standard of 50 milligrams per kilogram (mg/Kg) at all sample locations
- TPH concentrations were reported below the NMAC standard of 100 mg/Kg at all sample locations. The 2019 NMAC CC for total TPH compound (summation of ORO, GRO, and DRO) concentrations is 100 mg/kg for a site with groundwater less than 50 feet bgs.
- Chloride concentrations exceeded the NMAC standard of 600 mg/Kg in;
 - o All (six) sample intervals collected at SB-9: 0 – 1 ft bgs: 19,500 mg/Kg, 4 – 5 ft bgs: 3,030 mg/Kg
 - o 9 – 10 ft bgs: 1,180 mg/Kg, 14 – 15 ft bgs: 2,620 mg/Kg, 19 – 20 ft bgs: 2,750 mg/Kg, 24 – 25 ft bgs: 1,940 mg/Kg
 - o Four samples collected from SB-10: 9 – 10 ft bgs: 868 mg/Kg, 14 – 15 ft bgs: 1,010 mg/Kg, 19 – 20 ft bgs: 1,300 mg/Kg, 24 – 25 ft bgs: 1,340 mg/kg
 - o Three samples collected from SB-11: 9 – 10 ft bgs: 1,400 mg/Kg, 19 – 20 ft bgs: 616 mg/Kg, 24 – 25 ft bgs: 1,200 mg/Kg
 - o Two sample intervals collected from MW-5: 24 – 25 ft bgs: 617 mg/Kg, 39 – 40 ft bgs: 630 mg/Kg

2019 GROUNDWATER ASSESSMENT

Temporary Monitoring Well Installation and Groundwater Sampling

Soil and groundwater assessments conducted by CRA in April 2012 and by Arcadis in 2018 suggested potential impacts near groundwater at Pardue 27-12. Arcadis installed temporary groundwater monitoring well MW-5 on October 15, 2019. This temporary monitoring well was drilled southwest from the release area to confirm background concentrations in the aquifer and evaluate the potential impact of groundwater.

Groundwater at the Site was monitored in 2019 from a network of three monitoring wells (MW-1 through MW-3) and one temporary monitoring well (MW-5). Arcadis gauged and sampled monitoring wells MW-1, MW-2 and MW-3 in June 2019, and MW-5 in October 2019. All samples were collected via low flow purge methodology. Samples collected at MW-1, MW-2 and MW-3 were analyzed for chloride by EPA Method 300; the sample from temporary monitoring well MW-5 was analyzed for:

- BTEX by EPA 8260B
- TPH- GRO, DRO, ORO by EPA 8105B
- Chloride by EPA 300
- Total Dissolved Solids by Method 9056A



Groundwater Sample Results

Groundwater analytical results were compared the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards for MW-1 through MW-3 in June 2019. Groundwater analytical results for chloride, BTEX (benzene, toluene, ethylbenzene, and total xylenes), and TDS (total dissolved solids) were compared to the NMWQCC Groundwater standards for MW-5 in October 2019. The analytical results for the groundwater sample collected from MW-1 through MW-3 in June 2019 and MW-5 in October 2019 are summarized below.

- Chloride concentrations exceeded the NMWQCC standard of 250 milligrams per liter (mg/L) in all wells sampled in June 2019:
 - o MW-1: 4,560 mg/L
 - o MW-2: 5,950 mg/L
 - o MW-3: 4.650 mg/L
- Chloride concentrations exceeded the NMWQCC standard of 250 mg/L in MW-5 at a concentration of 2,180 mg/L in October 2019.
- BTEX were reported below the NMWQCC standard of 0.01, 0.75, 0.75 and 0.62 mg/L, respectively, in MW-5 in October 2019.
- TDS concentrations exceeded the NMWQCC standard of 1,000 mg/L at temporary monitoring well MW-5 during October 2019 at a concentration of 5,910 mg/L.

2020 SOIL INVESTIGATION

In November 2020, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. A monitoring well location (MW-6) was selected based on the results of previous soil sampling activities completed at the Site in April 2012, November 2018, and October 2019, locations of pipelines and other equipment at the Site, and the extent of the release as documented by Chevron MCBU personnel during the initial response activities. To evaluate the potential extent of impacts to soil at the Site, Arcadis advanced a single monitoring well (MW-6) on November 16, 2020.

Prior to conducting drilling activities, the boring location was cleared for subsurface utilities with an air knife. The boring was then advanced to a total depth of approximately 60 feet bgs using air rotary drilling technology. Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). Elevated (<3.0 ppm) photo ionizing device (PID) readings were observed in the soil cuttings from 2-25 feet bgs. No staining as observed. Lithologic data indicated the subsurface material consisted primarily of silty and gravelly sands from approximately 0 to 9 feet bgs followed by alternating sand and clay layers from approximately 9 to 60 feet bgs, with the exception of a sandy gravel bed from 50-55 ft bgs. Eight soil samples were collected from the boring, beginning at a depth of 0-1' foot bgs and every 1 foot to 4 ft bgs, and every 5 ft from 9 to 25 feet bgs. Samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and were shipped by Fed-Ex priority overnight to Eurofins TestAmerica analytical laboratory under chain-of-custody protocol. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8260B



- Total petroleum hydrocarbons (TPH) – diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B
- Monitoring well MW-6 was completed at a depth of 58.75 ft bgs and was constructed of 2-inch diameter polyvinyl chloride (PVC) with 35 feet of 0.010 inch slotted screen from 23.75 to 58.75 ft bgs. MW-6 was completed with a flush-mount vault. MW-6 was developed by over pumping the well. Soil cuttings and development water produced during the installation of temporary well MW-6 were drummed and transported to R360 Halfway, a select for use facility, for disposal.

Soil Sample Results

Soil analytical results were compared to the closure criteria outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) standards for chloride, BTEX and (TPH). Soil sample analytical results from the November 2020 soil investigation are summarized below:

- BTEX concentrations were reported below the NMAC standard of 50 milligrams per kilogram (mg/Kg) at all sample locations
- TPH concentrations were reported below the NMAC standard of 100 mg/kg at all sample locations.
- Chloride concentrations exceeded the NMAC standard of 600 milligrams per kilogram (mg/kg) in two sample intervals collected during the advancement of MW-6:
 - o 19 – 20 ft bgs: 1,230 mg/kg
 - o 24 – 25 ft bgs: 920 mg/kg

2020 GROUNDWATER ASSESSMENT

Monitoring Well Installation and Groundwater Sampling

Soil and groundwater assessments conducted by CRA in April 2012 and by Arcadis in 2018, and 2019 suggested potential impacts near groundwater at Pardue 27-12. Arcadis installed groundwater monitoring well MW-6 on November 16, 2019.

Groundwater at the Site was monitored in 2020 from a network of 3 monitoring wells (MW-1 through MW-3) and one newly installed monitoring well (MW-6). Arcadis gauged and sampled monitoring wells MW-1 through MW-3 and MW-6, in November 2020. All samples were collected via low flow purge methodology. Samples were analyzed for the following:

- BTEX by USEPA 8260C
- TPH- GRO by USEPA 8105B
- TPH- DRO, ORO by USEPA 8015D
- Chloride by USEPA 300
- Total Dissolved Solids by Method 2540 C-1997



Groundwater Sample Results

Groundwater analytical results were compared the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards for MW-1 through MW-3, and MW-6 in November 2020. Groundwater analytical results for chloride, BTEX (benzene, toluene, ethylbenzene, and total xylenes), and TDS (total dissolved solids) were compared to the NMWQCC Groundwater standards in November 2020. The analytical results for the groundwater sample collected from MW-1 through MW-3 and MW-6 are summarized below:

- Chloride concentrations exceeded the NMWQCC standard of 250 milligrams per liter (mg/L) in four wells sampled during the November 2020 groundwater investigation. Chloride analytical results are as follows:
 - o MW-1: 9,880 mg/L
 - o MW-2: 6,580 mg/L
 - o MW-3: 6,680 mg/L
 - o MW-6: 10,800 mg/L
- BTEX were reported below the NMWQCC standard of 0.01, 0.75, 0.75 and 0.62 mg/L, respectively in all wells sampled during the November 2020 groundwater investigation.
- TDS concentrations exceeded the NMWQCC standard of 1,000 mg/L in four wells sampled during the November 2020 groundwater investigation. TDS analytical results are as follows:
 - o MW-1: 14,800 mg/L
 - o MW-2: 13,400 mg/L
 - o MW-3: 14,100 mg/L
 - o MW-6: 18,800 mg/L

2021 SOIL INVESTIGATION

In November 2021, Arcadis conducted site assessment activities to characterize the lateral and vertical extents of potential soil impacts at the Site. Soil boring locations were selected based on the results of previous soil sampling activities completed at the Site in November 2020, locations of pipelines and other equipment at the Site, and the extent of the release as documented by Chevron MCBU personnel during the initial response activities. To evaluate the potential extent of impacts to soil at the Site, Arcadis advanced twelve soil borings (SB-12 through SB-23) on November 8 through 9, 2021.

Prior to conducting drilling activities, the boring location was cleared for subsurface utilities with an air knife. The borings were then advanced to a total depth of approximately 4 – 15 feet bgs using air rotary drilling technology. Soil was continuously logged for stratigraphic characteristics according to the Unified Soil Classification System (USCS). Elevated (<3.0 ppm) photo ionizing device (PID) readings were observed in the soil cuttings from 0-16 feet bgs. No staining as observed. Lithologic data indicated the subsurface material consisted primarily of silty sand from 0 to 2 feet bgs, followed by alternating layers of sandy clay and silty sand from approximately 2 to 16 feet bgs. Four to seven soil samples were collected from the borings, beginning at a depth of 0-1' foot bgs and every 1 foot to 14 ft bgs, with the exception of some sample intervals. Samples were collected in clean, laboratory-supplied glass jars, labeled, placed in an ice-chilled cooler, and were shipped by Fed-Ex to Pace Analytica analytical laboratory under chain-of-custody protocol. Soil samples collected from each boring were analyzed for the following:

- Chloride by USEPA Method 300



- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by USEPA Method 8260B
- Total petroleum hydrocarbons (TPH) – diesel range organics (DRO), oil range organics (ORO), and gasoline range organics (GRO) by Method SW8015B

Following soil sample collection, the boreholes were filled with soil cuttings from total depth to ground surface. The ground surface was restored to match the surrounding conditions. Soil cuttings were drummed and transported to R360 Halfway, a select for use facility, for disposal.

Soil Sample Results

Soil analytical results were compared to the closure criteria outlined in Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC) standards for chloride, BTEX and (TPH). Soil sample analytical results from the November 2021 soil investigation are summarized below:

- BTEX concentrations were reported below the NMAC standard of 50 milligrams per kilogram (mg/Kg) at all sample locations
- TPH concentrations were reported below the NMAC standard of 100 mg/kg at all sample locations.
- Chloride concentrations exceeded the NMAC standard of 600 mg/Kg in;
 - o Six samples collected from SB-12: 1 – 2 ft bgs: 1,430 mg/Kg, 2 – 3 ft bgs: 2,100 mg/Kg, 3 – 4 ft bgs: 923 mg/Kg, 4 – 5 ft bgs: 1,690 mg/Kg, 9 – 10 ft bgs: 2,030 mg/Kg, and 13 – 14 ft bgs: 1910 mg/Kg
 - o Five samples collected from SB-13: 2 – 3 ft bgs: 831 mg/Kg, 3 – 4 ft bgs: 3,070 mg/Kg, 4 – 5 ft bgs: 904 mg/Kg, 9 – 10 ft bgs: 1,490 mg/Kg, and 13 – 14 ft bgs: 1,990 mg/Kg
 - o One sample collected from SB-14: 7 – 8 ft bgs: 2,250 mg/Kg
 - o Five samples collected from SB-15: 1 – 2 ft bgs: 1,640 mg/Kg, 2 – 3 ft bgs: 2,520 mg/Kg, 3 – 4 ft bgs: 2,720 mg/Kg, 9 – 10 ft bgs: 1,940 mg/Kg, and 14 – 15 ft bgs: 1,460 mg/Kg
 - o Five samples collected from SB-16: 1 – 2 ft bgs: 1,000 mg/Kg, 2 – 3 ft bgs: 6,900 mg/Kg, 3 – 4 ft bgs: 4,010 mg/Kg, 4 – 5 ft bgs: 4,800 mg/Kg, and 9 – 10 ft bgs: 2,260 mg/Kg
 - o Two samples collected from SB-17: 3 – 4 ft bgs: 1,590 mg/Kg and 4 – 5 ft bgs: 1,640 mg/Kg
 - o Two samples collected from SB-18: 2 – 3 ft bgs: 1,320 mg/Kg and 3 – 4 ft bgs: 1,780 mg/Kg
 - o One sample collected from SB-19: 6 – 7 ft bgs: 1,800 mg/Kg

2021 GROUNDWATER ASSESSMENT

Groundwater Sample Results

Groundwater analytical results were compared the New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards for MW-1 through MW-3, and MW-6 in June and December 2021. Groundwater analytical results for chloride, BTEX (benzene, toluene, ethylbenzene, and total xylenes), and TDS (total dissolved solids) were compared to the NMWQCC Groundwater standards in June and December 2021. The analytical results for the groundwater sample collected from MW-1 through MW-3 and MW-6 are summarized below:

- Chloride concentrations exceeded the NNWQCC standards of 250 milligrams per liter (mg/L) in 4 wells sampled during the June 2021 groundwater investigation. Chloride analytical results are as follows:
- o MW-1: 7,210 mg/L



- o MW-2: 5,450 mg/L
- o MW-3: 6,520 mg/L
- o MW-6: 8,230 mg/L

Chloride concentrations exceeded the NMWQCC standard of 250 milligrams per liter (mg/L) in four wells sampled during the December 2021 groundwater investigation. Chloride analytical results are as follows:

- o MW-1: 8,120 mg/L
- o MW-2: 5,990 mg/L
- o MW-3: 6,940 mg/L
- o MW-6: 9,730 mg/L

BTEX were reported below the NMWQCC standard of 0.01, 0.75, 0.75 and 0.62 mg/L, respectively in all wells sampled during the June and December 2021 groundwater investigation.

TDS concentrations exceeded the NMWQCC standard of 1,000 mg/L in four wells sampled during the June 2021 groundwater investigation. TDS analytical results are as follows:

- o MW-1: 15,100 mg/L
- o MW-2: 13,100 mg/L
- o MW-3: 13,700 mg/L
- o MW-6: 16,000 mg/L

TDS concentrations exceeded the NMWQCC standard of 1,000 mg/L in four wells sampled during the December 2021 groundwater investigation. TDS analytical results are as follows:

- o MW-1: 19,300 mg/L
- o MW-2: 15,200 mg/L
- o MW-3: 17,300 mg/L
- o MW-6: 23,700 mg/L



Groundwater Gauging Log

Project Number		30155845						
Client:		Chevron						
Site ID:		UEM242						
Site Location:		Eddy County, New Mexico						
Measuring Point:		Top of Casing						
Date(s):		03/28/2023, 03/29/2023						
Sampler(s):		Daniel McGee						
Gauging Equipment:		Interface Probe						
Well ID	Date	Gauging Time	Static Water Level (ft bmp)	Depth to Product (ft)	Total Depth (ft bmp)	PID Reading (ppm)	LNAPL Removed (gal)	Comments
MW-1	3/28/2023	15:46	36.16	ND	58.15	--	--	--
MW-2	3/29/2023	12:40	37.58	ND	58.44	--	--	--
MW-3	3/29/2023	13:40	34.34	ND	59.71	--	--	--
MW-6	3/28/2023	14:32	27.37	ND	58.66	--	--	--
MW-7	3/29/2023	11:25	39.14	ND	57.48	--	--	--
MW-8	3/29/2023	10:25	28.92	ND	47.29	--	--	--

ft-bmp = feet below measuring point

ND = Not Detected

PID = Photoionization Detector Reading

ppm = parts per million

-- = Not Recorded

Project Number	30093248	Well ID	MW-1	Date	3/28/2023				
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by	Daniel McGee		
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	-- to --	Casing Diameter (in.)	4	Well Casing Material			
Static Water Level (ft-bmp)	36.16	Total Depth (ft-bmp)	58.15	Water Column(ft)	21.99	Gallons in Well	14.29		
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Collection Type	Grab				
Sample Time	15:46	Well Volumes Purged	0.00	Sample ID	MW-1-W-230328	Purge Equipment	Bladder		
Purge Start		Gallons Purged	0.05	Duplicate ID	--	Sample Equipment	Bladder		
Purge End	15:46	Total Purge Time(h:m)	0:30						

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
15:16	200	36.17	4.05	22.62	0.00	7.13	20.0	136.3	Clear
15:21	200	36.2	7.2	22.53	0.00	6.84	20.1	149.7	Clear
15:26	200	36.21	7.16	22.58	0.00	6.74	20.0	154.3	Clear
15:31	200	32.22	7.16	22.59	0.00	6.71	20.0	158.5	Clear
15:36	200	36.21	7.13	22.61	0.00	6.67	20.2	162.4	Clear
15:41	200	36.2	7.1	22.67	0.00	6.63	20.3	165.6	Clear
15:46	200	36.19	7.08	22.7	0.00	6.64	20.3	167.9	Clear

Comments: None

Well Casing Volume Conversion

Sample Information

Sample ID: MW-1-W-230328 Sample Time: 15:46 Sample Depth (ft-bmp) 0
(e.g. pump intake):ft-bmp = feet below measuring point
in. = inchesmS/cm = milliSiemens per centimeter
NTU = Nephe

mV = millivolts

Project Number	30093248	Well ID	MW-2	Date	3/29/2023		
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by	Daniel McGee
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	-- to --	Casing Diameter (in.)	4	Well Casing Material	
Static Water Level (ft-bmp)	37.58	Total Depth (ft-bmp)	58.44	Water Column(ft)	20.86	Gallons in Well	13.56
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Collection Type	Grab		
Sample Time	12:40	Well Volumes Purged	0.00	Sample ID	MW-2-W-230329	Purge Equipment	Bladder
Purge Start	12:05	Gallons Purged	0.05	Duplicate ID	--	Sample Equipment	Bladder
Purge End	12:40	Total Purge Time(h:m)	0:35				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
12:10	200	37.57	7.16	17.33	0	5.68	20.9	137.5	Clear
12:15	200	37.58	6.65	17.7	0	4.7	20.8	145.3	Clear
12:20	200	37.58	6.6	17.74	0	4.57	20.9	148.0	Clear
12:25	200	37.58	6.58	17.84	0	4.52	20.8	149.6	Clear
12:30	200	37.58	6.58	17.84	0	4.47	20.8	151.7	Clear
12:35	200	37.59	6.57	17.85	0	4.44	20.9	153.4	Clear
12:40	200	37.59	6.57	17.88	0	4.41	20.9	153.9	Clear

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID:	MW-2-W-230329	Sample Time:	12:40	Sample Depth (ft-bmp)	0
Analytes and Methods:	See Chain-of-Custody.			(e.g. pump intake):	
				Depth to Water at time of Sampling	0

Project Number	30093248	Well ID	MW-3	Date	3/29/2023		
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by	Daniel McGee
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	-- to --	Casing Diameter (in.)	4	Well Casing Material	
Static Water Level (ft-bmp)	34.34	Total Depth (ft-bmp)	59.71	Water Column(ft)	25.37	Gallons in Well	16.49
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Collection Type	Grab		
Sample Time	13:40	Well Volumes Purged	0.00	Sample ID	MW-1-W-230329	Purge Equipment	Bladder
Purge Start	13:09	Gallons Purged	0.05	Duplicate ID	DUP-1-W-230329	Sample Equipment	Bladder
Purge End	13:40	Total Purge Time(h:m)	0:31				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
13:10	200	34.36	7.11	19.4	0.00	7.14	20.9	130.7	Clear
13:15	201	34.36	6.98	19.4	0.00	6.76	20.7	150.2	Clear
13:20	202	34.36	6.74	19.41	0.00	6.71	20.7	158.2	Clear
13:25	203	34.36	6.72	19.42	0.00	6.67	20.7	165.1	Clear
13:30	204	34.35	6.72	19.42	0.00	6.63	20.7	171.4	Clear
13:35	205	34.35	6.72	19.42	0.00	6.63	20.8	175.0	Clear
13:40	200	34.35	6.71	19.43	0.00	6.62	20.9	179.9	Clear

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID:	MW-1-W-230329	Sample Time:	13:40	Sample Depth (ft-bmp) (e.g. pump intake):	0
Analytes and Methods:	See Chain-of-Custody.	Depth to Water at Time of Sampling:			0

Project Number	30093248	Well ID	MW-6	Date	3/28/2023				
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by	Daniel McGee		
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	23 to 58	Casing Diameter (in.)	2	Well Casing Material			
Static Water Level (ft-bmp)	27.37	Total Depth (ft-bmp)	58.66	Water Column(ft)	31.29	Gallons in Well	5.08		
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Collection Type	Grab				
Sample Time	14:32	Well Volumes Purged	0.01	Sample ID	MW-6-W-230328	Purge Equipment	Bladder		
Purge Start		Gallons Purged	0.05	Duplicate ID	--	Sample Equipment	Bladder		
Purge End	14:32	Total Purge Time(h:m)							

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
14:02	200	27.5	7.15	23.9	0.00	5.06	20.0	142.1	Clear
14:07	200	27.73	7.13	25.43	0.00	4.49	20.0	111.3	Clear
14:12	200	27.63	7.1	26.01	0.00	4.33	20.0	108.7	Clear
14:17	200	28.23	7.09	26.36	0.00	4.29	20.1	102	Clear
14:22	200	28.56	7.07	26.54	0.00	4.23	20.0	118.6	Clear
14:27	200	28.78	7.05	26.7	0.00	4.20	20.1	125.9	Clear
14:32	200	28.93	7.05	26.78	0.00	4.17	20	130.6	Clear

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID:	MW-6-W-230328	Sample Time:	14:32	Sample Depth (ft-bmp) (e.g. pump intake):	0
Analytes and Methods:	See Chain-of-Custody.			Depth to Water at Time of Sampling	0

Chevron Groundwater Sampling Form

Project Number	30093248	Well ID	MW-7	Date	3/29/2023		
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by	Daniel McGee
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	34 to 54	Casing Diameter (in.)	2	Well Casing Material	
Static Water Level (ft-bmp)	39.14	Total Depth (ft-bmp)	57.48	Water Column(ft)	18.34	Gallons in Well	2.99
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Collection Type	Grab		
Sample Time	11:25	Well Volumes Purged	0.01	Sample ID	MW-7-W-230328	Purge Equipment	Bladder
Purge Start	10:50	Gallons Purged	0.05	Duplicate ID	--	Sample Equipment	Bladder
Purge End	11:25	Total Purge Time(h:m)	0:35				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
10:55		39.23	6.87	16.5	0.00	16.49	21.4	186.4	
11:00		39.31	6.83	16.54	0.00	7.58	21.6	197.4	
11:05		39.4	6.84	16.54	0.00	7.56	21.5	205.5	
11:10		39.51	6.84	16.54	0.00	7.52	21.6	208.9	
11:15		39.51	6.84	16.52	0.00	7.42	21.8	209.4	
11:20		39.6	6.86	16.51	0.00	7.43	21.8	210.3	
11:25		39.62	6.86	16.54	0.00	7.41	21.7	210.0	

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID:	MW-6-W-230328	Sample Time:	11:25	Sample Depth (ft-bmp) (e.g. pump intake):	0
Analytes and Methods:	See Chain-of-Custody.	Depth to Water at Time of Sampling	0		

Chevron Groundwater Sampling Form



Project Number	30093248	Well ID	MW-8	Date	3/29/2023		
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by	Daniel McGee
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	24 to 44	Casing Diameter (in.)	2	Well Casing Material	
Static Water Level (ft-bmp)	28.92	Total Depth (ft-bmp)	47.29	Water Column(ft)	18.37	Gallons in Well	2.99
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Collection Type	Grab		
Sample Time	10:25	Well Volumes Purged	0.01	Sample ID	MW-7-W-230328	Purge Equipment	Bladder
Purge Start		Gallons Purged	0.05	Duplicate ID	--	Sample Equipment	Bladder
Purge End	10:25	Total Purge Time(h:m)	0:35				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Redox (mV)	Color
9:55		29.08	6.00	14.92	0.00	6.85	18.2	287.0	
10:00		29.11	6.40	16.77	0.00	6.46	18.8	277.5	
10:05		29.14	6.51	17.145	0.00	6.37	19.0	272	
10:10		29.16	6.54	17.25	0.00	6.35	19.1	270.7	
10:15		29.18	6.57	17.31	0.00	6.31	18.8	268.6	
10:20		29.19	6.57	17.36	0.00	6.32	19.0	267.0	
10:25		29.2	6.57	17.41	0.00	6.51	19.1	266.8	

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID:	MW-6-W-230328	Sample Time:	10:25	Sample Depth (ft-bmp) (e.g. pump intake):	0
Analytes and Methods:	See Chain-of-Custody.			Depth to Water at Time of Sampling	0



Groundwater Gauging Log

Project Number		30155845						
Client:		Chevron						
Site ID:		UEM242						
Site Location:		Eddy County, New Mexico						
Measuring Point:		Top of Casing						
Date(s):		07/05/2023, 07/06/2023						
Sampler(s):		Daniel McGee						
Gauging Equipment:		Interface Probe						
Well ID	Date	Gauging Time	Static Water Level (ft bmp)	Depth to Product (ft)	Total Depth (ft bmp)	PID Reading (ppm)	LNAPL Removed (gal)	Comments
MW-1	07/06/2023	10:20	36.42	ND	58.22	--	--	--
MW-2	07/06/2023	10:25	37.94	ND	58.48	--	--	--
MW-3	07/05/2023	10:30	34.72	ND	59.70	--	--	--
MW-6	07/05/2023	10:15	27.55	ND	58.69	--	--	--
MW-7	07/05/2023	10:10	39.46	ND	57.54	--	--	--
MW-8	07/05/2023	10:00	29.6	ND	47.31	--	--	--

ft-bmp = feet below measuring point

ND = Not Detected

PID = Photoionization Detector Reading

ppm = parts per million

-- = Not Recorded

Project Number	30155845	Well ID	MW-1	Date	7/6/2023	
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by Daniel McGee
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	-- to --	Casing Diameter (in.)	4	Well Casing Material --
Static Water Level (ft-bmp)	36.42	Total Depth (ft-bmp)	58.22	Water Column(ft)	21.8	Gallons in Well 14.17
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab	
Sample Time	12:49	Well Volumes Purged	0.04	Sample ID	MW-1-W-20230705	Evacuation Equipment Bladder
Purge Start	11:09	Gallons Purged	0.50	Duplicate ID	--	
Purge End	14:10	Total Purge	3:1			

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
12:09	200	36.52	7.00	23.3	24.9	7.16	24.60	177.5	Clear	--
12:14	200	36.53	6.77	21.2	27.7	6.41	22.60	189.7	Clear	--
12:19	200	36.51	6.74	21.0	47.5	6.17	22.30	191.9	Clear	--
12:24	200	36.52	6.76	21.1	56.9	6.08	22.40	192.8	Clear	--
12:29	200	36.53	6.76	21.0	78.9	6.13	22.20	193.9	Clear	--
12:34	200	36.53	6.76	21.1	101	6.05	22.50	194.7	Clear	--
12:39	200	36.53	6.76	21.8	109	5.84	23.90	194.4	Clear	--
12:44	200	36.53	6.76	21.9	101	5.93	23.90	194.8	Clear	--
12:49	200	36.53	6.77	21.9	100	6.11	24.10	194.8	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-1-W-20230705 Sample Time: 12:49 Sample Depth (ft-bmp): 0
 Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point

in. = inches

mS/cm = milliSiemens per centimeter

NTU = Nephe

mV = millivolts

Project Number	30155845	Well ID	MW-2	Date	7/6/2023		
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by	Daniel McGee
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	-- to --	Casing Diameter (in.)	4	Well Casing Material	--
Static Water Level (ft-bmp)	37.94	Total Depth (ft-bmp)	58.48	Water Column(ft)	20.54	Gallons in Well	13.35
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab		
Sample Time	11:48	Well Volumes Purged	0.04	Sample ID	MW-2-W-20230706	Evacuation Equipment	Bladder
Purge Start	11:09	Gallons Purged	0.50	Duplicate ID	DUP-01-W-20230706		
Purge End	14:10	Total Purge	3:1				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
10:53	200	38.00	6.39	17.1	11.3	6.19	23.50	206.1	Clear	--
10:58	200	38.00	6.50	15.8	17.7	3.68	21.90	202.4	Clear	--
11:03	200	38.00	6.54	15.8	24.9	3.49	21.90	201	Clear	--
11:08	200	38.00	6.57	15.8	31.7	3.40	21.70	199.6	Clear	--
11:13	200	38.00	6.58	15.8	47.3	3.34	21.80	198.3	Clear	--
11:18	200	38.00	6.59	15.8	53.1	3.34	21.80	197.7	Clear	--
11:23	200	38.00	6.60	15.8	64.5	3.31	21.80	197.4	Clear	--
11:28	200	38.00	6.60	15.8	77.0	3.28	21.90	196.9	Clear	--
11:33	200	38.00	6.60	16.0	88.6	3.25	22.30	196.3	Clear	--
11:38	200	38.00	6.60	16.0	103	3.23	22.40	196.1	Clear	--
11:43	200	38.00	6.61	16.0	104	3.22	22.40	195.5	Clear	--
11:48	200	38.00	6.61	16.0	105	3.21	22.30	195.1	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-2-W-20230706 Sample Time: 11:48 Sample Depth (ft-bmp): 0
Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point

in. = inches

mS/cm = milliSiemens per centimeter

NTU = Nephe

mV = millivolts

Project Number	30155845	Well ID	MW-3	Date	7/5/2023		
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by	Daniel McGee
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	-- to --	Casing Diameter (in.)	4	Well Casing Material	--
Static Water Level (ft-bmp)	27.55	Total Depth (ft-bmp)	58.69	Water Column(ft)	31.14	Gallons in Well	20.24
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab		
Sample Time	16:26	Well Volumes Purged	0.02	Sample ID	MW-3-W-20230705	Evacuation Equipment	Bladder
Purge Start	11:09	Gallons Purged	0.50	Duplicate ID	--		
Purge End	14:10	Total Purge	3:1				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
15:31	200	34.75	6.92	17.5	47.3	7.12	23.80	49.8	Clear	--
15:36	200	34.70	6.79	16.3	63.4	6.65	22.70	85.8	Clear	--
15:41	200	34.76	6.79	16.2	74.8	6.56	22.20	96.8	Clear	--
15:46	200	34.75	6.78	16.3	95.6	6.53	22.30	105.3	Clear	--
15:51	200	34.74	6.78	16.2	115	6.53	22.30	111.2	Clear	--
15:56	200	34.75	6.78	16.1	140	6.55	22.10	116.3	Clear	--
16:01	200	34.75	6.78	16.2	170	6.57	22.10	120.8	Clear	--
16:06	200	34.75	6.77	16.2	118	6.56	22.30	125.3	Clear	--
16:11	200	34.75	6.77	16.2	39.3	6.60	22.10	128.8	Clear	--
16:16	200	34.75	6.77	16.3	42.4	6.65	22.30	131	Clear	--
16:21	200	34.75	6.77	16.3	43.3	6.77	22.20	134.3	Clear	--
16:26	200	34.75	6.77	16.3	43.5	6.77	22.30	137.1	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-3-W-20230705 Sample Time: 16:26 Sample Depth (ft-bmp): 0
Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point

in. = inches

mS/cm = milliSiemens per centimeter

NTU = Nephe

mV = millivolts

Project Number	30155845	Well ID	MW-6	Date	7/5/2023		
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by	Daniel McGee
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	23 to 58	Casing Diameter (in.)	2	Well Casing Material	--
Static Water Level (ft-bmp)	27.55	Total Depth (ft-bmp)	58.69	Water Column(ft)	31.14	Gallons in Well	5.06
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab		
Sample Time	14:40	Well Volumes Purged	0.10	Sample ID	MW-6-W-20230705	Evacuation Equipment	Bladder
Purge Start	11:09	Gallons Purged	0.50	Duplicate ID	--		
Purge End	14:10	Total Purge	3:1				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
13:55	200	27.72	6.45	24.7	39.1	2.28	23.80	52.1	Clear	--
14:00	200	27.92	6.48	23.9	43.1	1.32	23.30	77.2	Clear	--
14:05	200	28.50	6.48	23.7	58.3	1.11	22.70	87.3	Clear	--
14:10	200	28.95	6.48	23.6	69.8	1.01	22.70	95.8	Clear	--
14:15	200	29.27	6.49	23.9	84.0	0.98	23.00	100	Clear	--
14:20	200	29.88	6.49	23.8	107	0.98	22.80	105.7	Clear	--
14:25	200	30.13	6.49	23.8	108	0.98	22.90	107.8	Clear	--
14:30	200	30.44	6.50	23.8	85.8	1.19	22.60	110	Clear	--
14:35	200	30.83	6.50	23.8	84.8	1.30	22.60	111.7	Clear	--
14:40	200	31.18	6.50	23.8	83.8	1.30	22.80	111.4	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-6-W-20230705 Sample Time: 14:40 Sample Depth (ft-bmp): 0
Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point

in. = inches

mS/cm = milliSiemens per centimeter

NTU = Nephe

mV = millivolts

Project Number	30155845	Well ID	MW-7	Date	7/5/2023		
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by	Daniel McGee
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	34 to 54	Casing Diameter (in.)	2	Well Casing Material	--
Static Water Level (ft-bmp)	39.46	Total Depth (ft-bmp)	57.54	Water Column(ft)	18.08	Gallons in Well	2.94
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab		
Sample Time	13:17	Well Volumes Purged	0.17	Sample ID	MW-7-W-20230705	Evacuation Equipment	Bladder
Purge Start	11:09	Gallons Purged	0.50	Duplicate ID --			
Purge End	14:08	Total Purge	2:59				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
12:42	200	39.55	6.95	14.7	69.9	6.54	28.70	66.4	Clear	--
12:47	200	39.71	6.24	14.7	34.5	5.90	25.50	108.7	Clear	--
12:52	200	39.81	6.77	14.5	45.8	6.02	25.10	118	Clear	--
12:57	200	39.91	6.77	14.3	22.9	5.98	22.43	125	Clear	--
13:02	200	39.96	6.77	14.3	37.0	6.00	24.80	129.3	Clear	--
13:07	200	40.02	6.77	14.3	31.9	6.03	25.00	133	Clear	--
13:12	200	40.07	6.78	14.2	32.3	6.11	24.80	137.3	Clear	--
13:17	200	40.10	6.78	14.2	31.7	5.96	25.20	139.5	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-7-W-20230705 Sample Time: 13:17 Sample Depth (ft-bmp): 0
Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point

in. = inches

mS/cm = milliSiemens per centimeter

NTU = Nephe

mV = millivolts

Project Number	30155845	Well ID	MW-8	Date	7/5/2023		
Site Location	Eddy County, New Mexico	Site ID	UEM242	Weather(°F)	Clear	Sampled by	Daniel McGee
Measuring Point Description	Top of Casing	Screen Depth Interval (ft-bmp)	24 to 44	Casing Diameter (in.)	2	Well Casing Material	--
Static Water Level (ft-bmp)	29.6	Total Depth (ft-bmp)	47.31	Water Column(ft)	17.71	Gallons in Well	2.88
Water Quality Meter Make/Model	YSI Pro Plus	Purge Method	Low-Flow	Sample Method	Grab		
Sample Time	11:55	Well Volumes Purged	0.17	Sample ID	MW-8-W-20230705	Evacuation Equipment	Bladder
Purge Start	11:09	Gallons Purged	0.50	Duplicate ID --			
Purge End	14:07	Total Purge	2:58				

Time	Rate (ml/min)	Depth to Water (ft)	pH (standard)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen	Temperature (°C)	Redox (mV)	Appearance	
									Color	Odor
10:15	200	29.72	6.47	16.9	5.0	4.38	26.80	175.8	Clear	--
10:20	200	29.76	6.49	16.6	349	2.09	25.80	170.4	Clear	--
10:25	200	29.78	6.50	16.6	253	1.27	26.10	166.2	Clear	--
10:30	200	29.78	6.51	16.7	235	1.05	26.40	161.8	Clear	--
10:35	200	29.79	6.52	16.9	179	0.98	27.00	156.8	Clear	--
10:40	200	29.78	6.52	16.9	188	0.93	26.90	152.7	Clear	--
10:45	200	29.78	6.58	16.9	106	0.89	27.00	149.4	Clear	--
10:50	200	29.80	6.53	17.0	106	0.88	27.10	147.7	Clear	--
10:55	200	29.78	6.53	17.1	106	0.87	27.20	145.3	Clear	--

Comments: None

Well Casing Volume Conversion

Well diameter (in.) = 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
 gallons per foot 1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Sample Information

Sample ID: MW-8-W-20230705 Sample Time: 11:55 Sample Depth (ft-bmp): 0
 Analytes and Methods: See Chain-of-Custody.

ft-bmp = feet below measuring point

in. = inches

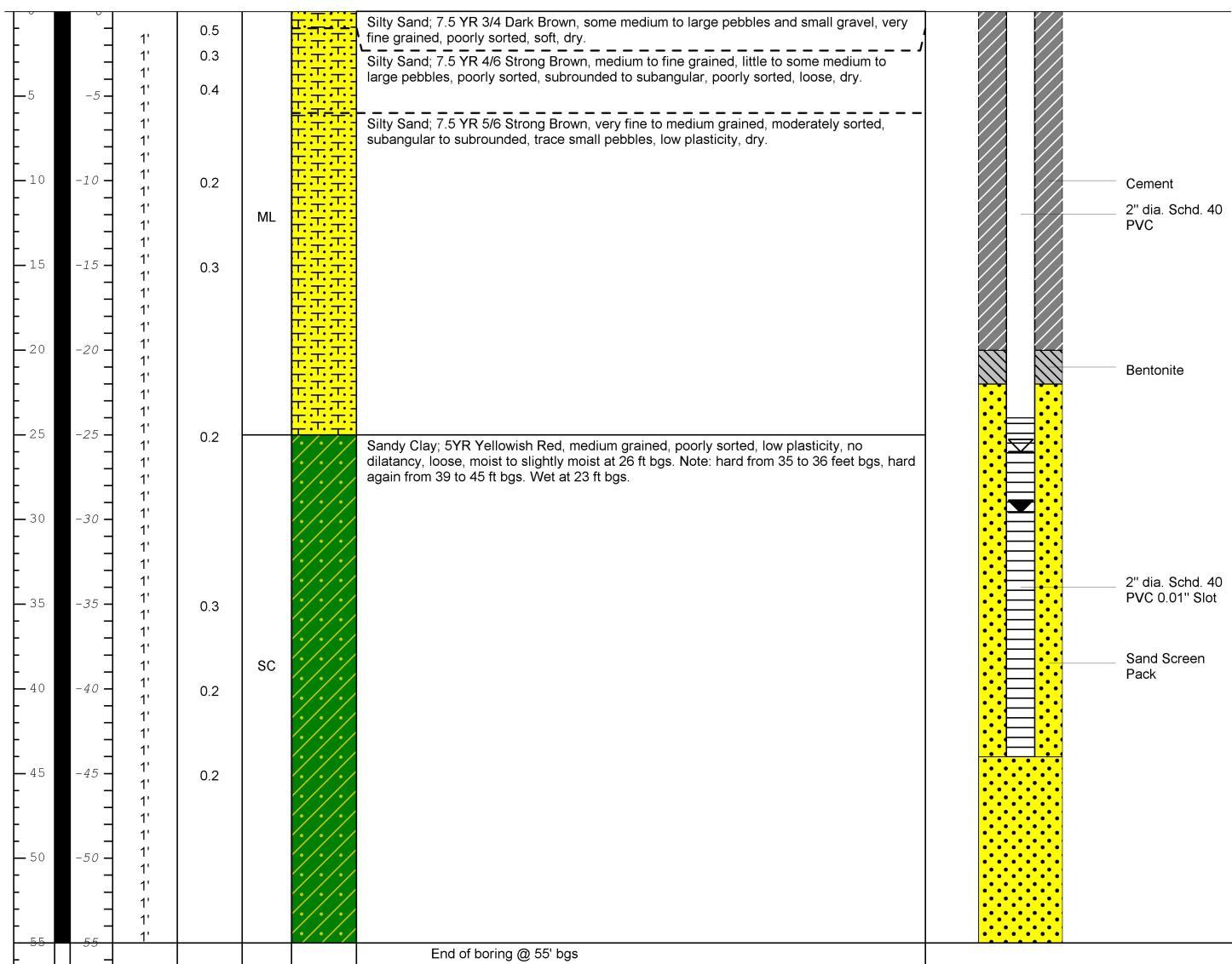
mS/cm = milliSiemens per centimeter

NTU = Nephe

mV = millivolts

Date Start/Finish: 3/27/2023 Drilling Company: White Drilling Company Driller's Name: Bo Akins Drilling Method: Air Rotary Sampling Method: Shovel Rig Type: Air Rotary	Latitude: 32.27411353 Longitude: 104.07931245 Casing Elevation: 3062.96' (NGVD '88) Borehole Depth: 55' Surface Elevation: 3060.11' (NGVD '88) Descriptions By: Sarah Nolen	Well/Boring ID: MW-8 Client: Chevron Environmental Management Company Location: Pardue Farms, Loving, New Mexico
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DEPTH	Recovery (feet)	PLD (ppm)	USCS Code	Geologic Column	Stratigraphic Description	Well Boring/Construction
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 Infrastructure · Water · Environment · Buildings	Remarks: 1. Below Ground Surface (bgs); 2. Drilled Depth: 55' bgs. Plug-Back Depth: 44' bgs ☐ Water Level During Drilling ☐ Water Level Measured 7/5/2023
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Date Start/Finish: 03/29/2023 Drilling Company: White Drilling Company Driller's Name: Bo Akins Drilling Method: Air Rotary Sampling Method: Shovel Rig Type: Air Rotary	Latitude: 32°16'24.18" N Longitude: 104°4'43.69" W Casing Elevation: Not Surveyed Borehole Depth: 30' Surface Elevation: Not Surveyed Descriptions By: Sarah Nolen	Well/Boring ID: SB-24 Client: Chevron Environmental Management Company Location: Pardue Farms, Loving, New Mexico
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DEPTH	Recovery (feet)	PID (ppm)	USCS Code	Geologic Column	Stratigraphic Description
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0	1'	0	SM	Silty Sand; 5 YR 5/3 Reddish Brown, very fine to medium grained, subangular to subrounded, poorly sorted, trace to little small size subangular pebbles, stiff, loose, dry.
0.3	1'	0.3		
1	1'	0.1		Sandy Gravel; 5 YR 6/3 Light Brown, small to large subangular to subrounded pebbles, coarse to fine gravel, poorly sorted, loose, hard, dry.
5	1'			
-5	1'			
10	1'	0.0		
-10	1'			
15	1'	0.0	GW	Conglomerate; 5 YR 7/1 Light Gray, poorly sorted, small to medium pebbles with some granules within a sandy calciche matrix, hard, well cemented, dry.
-15	1'			
20	1'	0.1		Sandy Gravel; 5 YR 6/2 Pinkish Gray, small to large, subrounded to subangular pebbles, fine gravel, poorly sorted, fine to coarse grained poorly sorted subangular sand, loose, dry.
-20	1'			
25	1'	0.1		
-25	1'			
30	1'	0.1		
-30				End of boring @ 30' bgs

 Infrastructure · Water · Environment · Buildings	Remarks: 1. Below Ground Surface (bgs)
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Date Start/Finish: 3/29/2023 Drilling Company: White Drilling Company, Inc. Driller's Name: Bo Akins Drilling Method: Air Rotary Sampling Method: Shovel Rig Type: Air Rotary	Latitude: 32°16'25.47" N Longitude: 104°4'44.01" W Casing Elevation: Not Surveyed Borehole Depth: 25' Surface Elevation: Not Surveyed Descriptions By: Sarah Nolen	Well/Boring ID: SB-25 Client: Chevron Environmental Management Company Location: Pardue Farms, Loving, New Mexico
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DEPTH	Recovery (feet)	PLD (ppm)	USCS Code	Geologic Column	Stratigraphic Description
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0		0.0			Silty Sand; 5 YR 6/4 Light Reddish Brown, very fine to fine grained, trace medium gravel, poor to moderately sorted, subangular to subrounded, stiff to medium stiff, loose, trace to little gravel, medium to large pebble size (is mostly likely surface gravel), dry.
1'		0.1			Silty Sand; 5 YR 6/4 Ligt Reddish Brown, very fine grained, slight trace medium grains, moderately to well sorted, subangular to subrounded, stiff, loose, dry.
1'		0.1		ML	
1'					
1'					
1'					Sand; 5 YR 6/4 reddish Brown, very fine to fine grained, well sorted with small gypsum crystals, subangular to subrounded, stiff, loose, dry.
1'					
1'					
1'		0.0		SP	
1'					
1'					
1'		0.1			
1'					
1'					Sand; 5/4 Reddish Brown, fine to medium grained, poorly to moderately sorted, with small gypsum crystal fragments, subangular, trace to little small pebbles/granules, loose, stiff, slightly moist.
1'					
1'		0.0			
1'					
1'					
1'					
1'		0.0			
25'					End of boring @ 25' bgs

 Infrastructure · Water · Environment · Buildings	Remarks: 1. Below Ground Surface (bgs)
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Date Start/Finish: 3/29/2023 Drilling Company: White Drilling Company, Inc. Driller's Name: Bo Akins Drilling Method: Air Rotary Sampling Method: Shovel Rig Type: Air Rotary	Latitude: 32°16'26.11" N Longitude: 104°4'44.14" W Casing Elevation: Not Surveyed Borehole Depth: 25' Surface Elevation: Not Surveyed Descriptions By: Sarah Nolen	Well/Boring ID: SB-26 Client: Chevron Environmental Management Company Location: Pardue Farms, Loving, New Mexico
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DEPTH	Recovery (feet)	PID (ppm)	USCS Code	Geologic Column	Stratigraphic Description
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0	1'	0.0	ML		Silty Sand; 5 YR 6/3 Light Reddish Brown, very fine to fine grained, subangular to subrounded with some subrounded small sized pebbles, poorly sorted, stiff, loose, dry.
1	1'	0.0			
2	1'	0.0			
3	1'	0.1			
4	1'	0.1			
5	1'	0.1	SW		Sand; 5YR 5/3 Reddish Brown, fine to coarse grained, subangular to subrounded, poorly sorted, some small gypsum fragments, trace small subangular pebbles, loose to stiff, dry. Note: hardness increases to medium stiff to very stiff at 10 ft bgs.
6	1'	0.1			
7	1'	0.1			
8	1'	0.1			
9	1'	0.1			
10	1'	0.1			
11	1'	0.1			
12	1'	0.1			
13	1'	0.1			
14	1'	0.1			
15	1'	0.1	GW		Gravely Sand; 5 YR 5/4 reddish Brown, fine to medium grained, subangular to subrounded, slightly consolidated, noncemented, medium rounded to subrounded pebbles, little gypsum fragments, medium stiff to stiff, slightly moist.
16	1'	0.0			
17	1'	0.0			
18	1'	0.0			
19	1'	0.0			
20	1'	0.0			End of boring @ 25' bgs
21	1'	0.0			
22	1'	0.0			
23	1'	0.0			
24	1'	0.0			
25	1'	0.0			

	Remarks: 1. Below Ground Surface (bgs)
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Date Start/Finish: 3/28/2023 Drilling Company: White Drilling Company, Inc. Driller's Name: Bo Akins Drilling Method: Air Rotary Sampling Method: Shovel Rig Type: Air Rotary	Latitude: 32°16'27.32" N Longitude: 104°4'.41.66" W Casing Elevation: Not Surveyed Borehole Depth: 24' Surface Elevation: Not Surveyed Descriptions By: Sarah Nolen	Well/Boring ID: SB-28 Client: Chevron Environmental Management Company Location: Pardue Farms, Loving, New Mexico
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DEPTH	Recovery (feet)	PID (ppm)	USCS Code	Geologic Column	Stratigraphic Description
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		0.1			Silty Sand; 7.5 YR 6/4 Light Brown, very fine to fine grained, moderately sorted, subrounded to subangular, trace to little small pebbles, loose, dry.
	1'	0.2			
	1'				
	1'	0.1	ML		
-5	1'				
	1'				
	1'				Silty Sandstone; 5 YR 5/4 Reddish Brown, fine to medium grained with some medium sized pebbles (gypsum), poorly sorted, loose.
	1'	0.1			
-10	1'				
	1'				Sand; 5 YR 5/4 Reddish Brown, trace very small gypsum pebbles and fragments, dry, trace clay nodules at 24 ft bgs.
	1'				
	1'				
	1'				
-15	1'	0.3	SW		
	1'				
	1'				
	1'				
	1'	0.3			
-20	1'				
	1'				
	1'				
	1'	0.2			
					End of boring @ 24' bgs

 Infrastructure · Water · Environment · Buildings	Remarks: 1. Below Ground Surface (bgs)
---	---



ANALYTICAL REPORT

April 10, 2023

Arcadis - Chevron - NM

Sample Delivery Group: L1600441
Samples Received: 03/31/2023
Project Number: 30155845.00003
Description: Pardue Farms 27-12
Site: PARDUE FARMS 27-12
Report To: Russell Grant
401 East Main Street
Suite 400
El Paso, TX 79901

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Entire Report Reviewed By:

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 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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	1 Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	2 Tc
Cn: Case Narrative	8	
Sr: Sample Results	9	3 Ss
SB-25-S-0-1-230329 L1600441-01	9	
SB-25-S-2-230329 L1600441-02	10	4 Cn
SB-25-S-4-230329 L1600441-03	11	5 Sr
SB-25-S-9-10-230329 L1600441-04	12	
SB-25-S-14-15-230329 L1600441-05	13	6 Qc
SB-25-S-19-20-230329 L1600441-06	14	
SB-25-S-24-25-230329 L1600441-07	15	7 Gl
SB-26-S-0-1-230329 L1600441-08	16	8 Al
SB-26-S-2-230329 L1600441-09	17	
SB-26-S-4-230329 L1600441-10	18	9 Sc
SB-26-S-9-10-230329 L1600441-11	19	
SB-26-S-14-15-230329 L1600441-12	20	
SB-26-S-19-20-230329 L1600441-13	21	
SB-26-S-24-25-230329 L1600441-14	22	
SB-24-S-0-1-230329 L1600441-15	23	
SB-24-S-2-230329 L1600441-16	24	
SB-24-S-4-230329 L1600441-17	25	
SB-24-S-9-10-230329 L1600441-18	26	
SB-24-S-14-15-230329 L1600441-19	27	
SB-24-S-19-20-230329 L1600441-20	28	
SB-24-S-24-25-230329 L1600441-21	29	
SB-24-S-29-30-230329 L1600441-22	30	
Qc: Quality Control Summary	31	
Total Solids by Method 2540 G-2011	31	
Wet Chemistry by Method 300.0	34	
Volatile Organic Compounds (GC) by Method 8015D/GRO	36	
Volatile Organic Compounds (GC/MS) by Method 8260B	38	
Semi-Volatile Organic Compounds (GC) by Method 8015M	40	
Gl: Glossary of Terms	42	
Al: Accreditations & Locations	43	
Sc: Sample Chain of Custody	44	

SB-25-S-0-1-230329 L1600441-01 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:27
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034636	1	04/04/23 06:42	04/04/23 06:49	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1.03	04/04/23 22:30	04/05/23 00:27	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 20:46	04/06/23 15:21	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 00:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 22:09	JAS	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

SB-25-S-2-230329 L1600441-02 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:30
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034636	1	04/04/23 06:42	04/04/23 06:49	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1.01	04/04/23 22:30	04/05/23 01:04	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 20:46	04/06/23 15:41	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 00:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 21:37	JAS	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

SB-25-S-4-230329 L1600441-03 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:31
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034638	1	04/04/23 06:12	04/04/23 06:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1	04/04/23 22:30	04/05/23 01:14	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 20:46	04/06/23 16:02	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 00:55	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 21:24	JAS	Mt. Juliet, TN

9Sc

SB-25-S-9-10-230329 L1600441-04 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:32
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034638	1	04/04/23 06:12	04/04/23 06:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1	04/04/23 22:30	04/05/23 01:23	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 20:46	04/06/23 16:22	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 01:17	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 18:40	JAS	Mt. Juliet, TN

SB-25-S-14-15-230329 L1600441-05 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:33
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034638	1	04/04/23 06:12	04/04/23 06:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1	04/04/23 22:30	04/05/23 01:33	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 20:46	04/06/23 16:42	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 01:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 21:50	JAS	Mt. Juliet, TN

SB-25-S-19-20-230329 L1600441-06 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:34
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034638	1	04/04/23 06:12	04/04/23 06:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1.01	04/04/23 22:30	04/05/23 02:02	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 20:46	04/06/23 17:02	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 02:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 18:59	JAS	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

SB-25-S-24-25-230329 L1600441-07 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:35
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034638	1	04/04/23 06:12	04/04/23 06:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1.04	04/04/23 22:30	04/05/23 02:11	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 20:46	04/06/23 17:23	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 02:21	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 19:12	JAS	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

SB-26-S-0-1-230329 L1600441-08 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:46
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034638	1	04/04/23 06:12	04/04/23 06:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1	04/04/23 22:30	04/05/23 02:21	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 20:46	04/06/23 17:43	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 02:43	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 22:22	JAS	Mt. Juliet, TN

9Sc

SB-26-S-2-230329 L1600441-09 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:47
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034638	1	04/04/23 06:12	04/04/23 06:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1.03	04/04/23 22:30	04/05/23 02:30	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 20:46	04/06/23 18:03	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 03:04	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 19:25	JAS	Mt. Juliet, TN

SB-26-S-4-230329 L1600441-10 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:48
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034638	1	04/04/23 06:12	04/04/23 06:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1	04/04/23 22:30	04/05/23 02:40	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/06/23 21:34	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 03:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 20:58	JAS	Mt. Juliet, TN

SB-26-S-9-10-230329 L1600441-11 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:49
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034638	1	04/04/23 06:12	04/04/23 06:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1.01	04/04/23 22:30	04/05/23 02:50	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/06/23 21:54	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 03:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 21:11	JAS	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

SB-26-S-14-15-230329 L1600441-12 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:50
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034638	1	04/04/23 06:12	04/04/23 06:18	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	5	04/04/23 22:30	04/05/23 03:09	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/06/23 23:13	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 04:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 19:38	JAS	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

SB-26-S-19-20-230329 L1600441-13 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:51
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034639	1	04/04/23 08:43	04/04/23 08:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1	04/04/23 22:30	04/05/23 03:18	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/06/23 23:34	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 04:29	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036134	1	04/06/23 06:19	04/06/23 11:46	JAS	Mt. Juliet, TN

9Sc

SB-26-S-24-25-230329 L1600441-14 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 07:52
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034639	1	04/04/23 08:43	04/04/23 08:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1.03	04/04/23 22:30	04/05/23 03:28	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/06/23 23:54	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 04:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036134	1	04/06/23 06:19	04/06/23 11:58	JAS	Mt. Juliet, TN

SB-24-S-0-1-230329 L1600441-15 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 08:35
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034639	1	04/04/23 08:43	04/04/23 08:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1	04/04/23 22:30	04/05/23 03:56	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1.01	04/04/23 20:46	04/07/23 00:15	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 05:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036134	1	04/06/23 06:19	04/06/23 13:00	JAS	Mt. Juliet, TN

SB-24-S-2-230329 L1600441-16 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 08:36
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034639	1	04/04/23 08:43	04/04/23 08:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1.02	04/04/23 22:30	04/05/23 04:06	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/07/23 00:35	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 05:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036134	1	04/06/23 06:19	04/06/23 12:10	JAS	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

SB-24-S-4-230329 L1600441-17 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 08:37
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034639	1	04/04/23 08:43	04/04/23 08:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1.02	04/04/23 22:30	04/05/23 04:16	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/07/23 00:56	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1.01	04/04/23 20:46	04/05/23 05:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036134	1	04/06/23 06:19	04/06/23 13:00	JAS	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

SB-24-S-9-10-230329 L1600441-18 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 08:38
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034639	1	04/04/23 08:43	04/04/23 08:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1	04/04/23 22:30	04/05/23 04:25	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/07/23 01:16	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 06:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036134	1	04/06/23 06:19	04/06/23 12:10	JAS	Mt. Juliet, TN

9Sc

SB-24-S-14-15-230329 L1600441-19 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 08:39
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034639	1	04/04/23 08:43	04/04/23 08:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1	04/04/23 22:30	04/05/23 04:35	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/07/23 01:37	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 06:37	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 19:51	JAS	Mt. Juliet, TN

SB-24-S-19-20-230329 L1600441-20 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 08:40
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034639	1	04/04/23 08:43	04/04/23 08:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035812	1.05	04/04/23 22:30	04/05/23 04:44	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/07/23 01:57	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035824	1	04/04/23 20:46	04/05/23 06:58	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036134	1	04/06/23 06:19	04/06/23 12:23	JAS	Mt. Juliet, TN

SB-24-S-24-25-230329 L1600441-21 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 08:41
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034639	1	04/04/23 08:43	04/04/23 08:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2036612	1.02	04/06/23 01:30	04/06/23 09:10	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/07/23 02:17	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 20:46	04/05/23 16:24	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036134	1	04/06/23 06:19	04/06/23 12:48	JAS	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

SB-24-S-29-30-230329 L1600441-22 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 08:43
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034639	1	04/04/23 08:43	04/04/23 08:54	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2036612	1.01	04/06/23 01:30	04/06/23 09:26	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037365	1	04/04/23 20:46	04/07/23 02:38	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 20:46	04/05/23 16:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036134	1	04/06/23 06:19	04/06/23 12:48	JAS	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

9Sc

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

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 03/29/23 07:27

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	04/04/2023 06:49	WG2034636

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	202		9.79	21.3	1.03	04/05/2023 00:27	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	04/06/2023 15:21	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		04/06/2023 15:21	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000498	0.00107	1	04/05/2023 00:12	WG2035824
Toluene	U		0.00139	0.00533	1	04/05/2023 00:12	WG2035824
Ethylbenzene	U		0.000785	0.00266	1	04/05/2023 00:12	WG2035824
Total Xylenes	0.000959	J	0.000938	0.00693	1	04/05/2023 00:12	WG2035824
(S) Toluene-d8	93.1			75.0-131		04/05/2023 00:12	WG2035824
(S) 4-Bromofluorobenzene	108			67.0-138		04/05/2023 00:12	WG2035824
(S) 1,2-Dichloroethane-d4	96.4			70.0-130		04/05/2023 00:12	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.13	1	04/06/2023 22:09	WG2036128
C28-C36 Motor Oil Range	6.12		0.283	4.13	1	04/06/2023 22:09	WG2036128
(S) o-Terphenyl	70.2			18.0-148		04/06/2023 22:09	WG2036128

Collected date/time: 03/29/23 07:30

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.9		1	04/04/2023 06:49	WG2034636

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	707		10.0	21.7	1.01	04/05/2023 01:04	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	04/06/2023 15:41	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		04/06/2023 15:41	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000538	0.00115	1	04/05/2023 00:33	WG2035824
Toluene	U		0.00150	0.00576	1	04/05/2023 00:33	WG2035824
Ethylbenzene	U		0.000849	0.00288	1	04/05/2023 00:33	WG2035824
Total Xylenes	U		0.00101	0.00749	1	04/05/2023 00:33	WG2035824
(S) Toluene-d8	91.6			75.0-131		04/05/2023 00:33	WG2035824
(S) 4-Bromofluorobenzene	108			67.0-138		04/05/2023 00:33	WG2035824
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		04/05/2023 00:33	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.77	J	1.73	4.31	1	04/06/2023 21:37	WG2036128
C28-C36 Motor Oil Range	7.73		0.295	4.31	1	04/06/2023 21:37	WG2036128
(S) o-Terphenyl	77.8			18.0-148		04/06/2023 21:37	WG2036128

Collected date/time: 03/29/23 07:31

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	04/04/2023 06:18	WG2034638

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1260		9.74	21.2	1	04/05/2023 01:14	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	04/06/2023 16:02	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	96.1			77.0-120		04/06/2023 16:02	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000522	0.00112	1	04/05/2023 00:55	WG2035824
Toluene	U		0.00145	0.00559	1	04/05/2023 00:55	WG2035824
Ethylbenzene	U		0.000824	0.00279	1	04/05/2023 00:55	WG2035824
Total Xylenes	U		0.000984	0.00726	1	04/05/2023 00:55	WG2035824
(S) Toluene-d8	95.1			75.0-131		04/05/2023 00:55	WG2035824
(S) 4-Bromofluorobenzene	111			67.0-138		04/05/2023 00:55	WG2035824
(S) 1,2-Dichloroethane-d4	92.3			70.0-130		04/05/2023 00:55	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.77	J	1.70	4.24	1	04/06/2023 21:24	WG2036128
C28-C36 Motor Oil Range	5.22		0.290	4.24	1	04/06/2023 21:24	WG2036128
(S) o-Terphenyl	85.4			18.0-148		04/06/2023 21:24	WG2036128

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/29/23 07:32

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.8		1	04/04/2023 06:18	WG2034638

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1110		10.6	23.0	1	04/05/2023 01:23	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0250	0.115	1	04/06/2023 16:22	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	97.2			77.0-120		04/06/2023 16:22	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000609	0.00130	1	04/05/2023 01:17	WG2035824
Toluene	U		0.00170	0.00652	1	04/05/2023 01:17	WG2035824
Ethylbenzene	U		0.000962	0.00326	1	04/05/2023 01:17	WG2035824
Total Xylenes	U		0.00115	0.00848	1	04/05/2023 01:17	WG2035824
(S) Toluene-d8	96.5			75.0-131		04/05/2023 01:17	WG2035824
(S) 4-Bromofluorobenzene	111			67.0-138		04/05/2023 01:17	WG2035824
(S) 1,2-Dichloroethane-d4	91.3			70.0-130		04/05/2023 01:17	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.86	4.61	1	04/06/2023 18:40	WG2036128
C28-C36 Motor Oil Range	3.63	J	0.316	4.61	1	04/06/2023 18:40	WG2036128
(S) o-Terphenyl	75.2			18.0-148		04/06/2023 18:40	WG2036128

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.2		1	04/04/2023 06:18	WG2034638

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1290		10.1	21.9	1	04/05/2023 01:33	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0238	0.110	1	04/06/2023 16:42	WG2037033
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.9			77.0-120		04/06/2023 16:42	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000558	0.00119	1	04/05/2023 01:38	WG2035824
Toluene	U		0.00155	0.00597	1	04/05/2023 01:38	WG2035824
Ethylbenzene	U		0.000880	0.00299	1	04/05/2023 01:38	WG2035824
Total Xylenes	U		0.00105	0.00776	1	04/05/2023 01:38	WG2035824
(S) Toluene-d8	94.5			75.0-131		04/05/2023 01:38	WG2035824
(S) 4-Bromofluorobenzene	110			67.0-138		04/05/2023 01:38	WG2035824
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		04/05/2023 01:38	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.92	J	1.77	4.39	1	04/06/2023 21:50	WG2036128
C28-C36 Motor Oil Range	3.83	J	0.301	4.39	1	04/06/2023 21:50	WG2036128
(S) o-Terphenyl	62.5			18.0-148		04/06/2023 21:50	WG2036128

Collected date/time: 03/29/23 07:34

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.6		1	04/04/2023 06:18	WG2034638

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	922		10.6	23.1	1.01	04/05/2023 02:02	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0248	0.114	1	04/06/2023 17:02	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		04/06/2023 17:02	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000599	0.00128	1	04/05/2023 02:00	WG2035824
Toluene	U		0.00167	0.00642	1	04/05/2023 02:00	WG2035824
Ethylbenzene	U		0.000946	0.00321	1	04/05/2023 02:00	WG2035824
Total Xylenes	U		0.00113	0.00834	1	04/05/2023 02:00	WG2035824
(S) Toluene-d8	91.4			75.0-131		04/05/2023 02:00	WG2035824
(S) 4-Bromofluorobenzene	110			67.0-138		04/05/2023 02:00	WG2035824
(S) 1,2-Dichloroethane-d4	94.3			70.0-130		04/05/2023 02:00	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.84	4.57	1	04/06/2023 18:59	WG2036128
C28-C36 Motor Oil Range	2.44	J	0.313	4.57	1	04/06/2023 18:59	WG2036128
(S) o-Terphenyl	70.7			18.0-148		04/06/2023 18:59	WG2036128

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Collected date/time: 03/29/23 07:35

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.8		1	04/04/2023 06:18	WG2034638

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	627		11.3	24.5	1.04	04/05/2023 02:11	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0256	0.118	1	04/06/2023 17:23	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		04/06/2023 17:23	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000635	0.00136	1	04/05/2023 02:21	WG2035824
Toluene	U		0.00177	0.00680	1	04/05/2023 02:21	WG2035824
Ethylbenzene	U		0.00100	0.00340	1	04/05/2023 02:21	WG2035824
Total Xylenes	U		0.00120	0.00884	1	04/05/2023 02:21	WG2035824
(S) Toluene-d8	91.7			75.0-131		04/05/2023 02:21	WG2035824
(S) 4-Bromofluorobenzene	110			67.0-138		04/05/2023 02:21	WG2035824
(S) 1,2-Dichloroethane-d4	92.1			70.0-130		04/05/2023 02:21	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.90	4.72	1	04/06/2023 19:12	WG2036128
C28-C36 Motor Oil Range	1.52	J	0.323	4.72	1	04/06/2023 19:12	WG2036128
(S) o-Terphenyl	71.2			18.0-148		04/06/2023 19:12	WG2036128

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	04/04/2023 06:18	WG2034638

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	14.4	J	9.49	20.6	1	04/05/2023 02:21	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	04/06/2023 17:43	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		04/06/2023 17:43	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000497	0.00106	1	04/05/2023 02:43	WG2035824
Toluene	U		0.00138	0.00532	1	04/05/2023 02:43	WG2035824
Ethylbenzene	U		0.000784	0.00266	1	04/05/2023 02:43	WG2035824
Total Xylenes	U		0.000936	0.00691	1	04/05/2023 02:43	WG2035824
(S) Toluene-d8	93.5			75.0-131		04/05/2023 02:43	WG2035824
(S) 4-Bromofluorobenzene	109			67.0-138		04/05/2023 02:43	WG2035824
(S) 1,2-Dichloroethane-d4	92.4			70.0-130		04/05/2023 02:43	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.70	J	1.66	4.13	1	04/06/2023 22:22	WG2036128
C28-C36 Motor Oil Range	11.2		0.283	4.13	1	04/06/2023 22:22	WG2036128
(S) o-Terphenyl	94.2			18.0-148		04/06/2023 22:22	WG2036128

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	76.5		1	04/04/2023 06:18	WG2034638

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		12.4	26.9	1.03	04/05/2023 02:30	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0284	0.131	1	04/06/2023 18:03	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		04/06/2023 18:03	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000755	0.00162	1	04/05/2023 03:04	WG2035824
Toluene	U		0.00210	0.00809	1	04/05/2023 03:04	WG2035824
Ethylbenzene	U		0.00119	0.00404	1	04/05/2023 03:04	WG2035824
Total Xylenes	U		0.00142	0.0105	1	04/05/2023 03:04	WG2035824
(S) Toluene-d8	94.8			75.0-131		04/05/2023 03:04	WG2035824
(S) 4-Bromofluorobenzene	110			67.0-138		04/05/2023 03:04	WG2035824
(S) 1,2-Dichloroethane-d4	96.2			70.0-130		04/05/2023 03:04	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.11	5.23	1	04/06/2023 19:25	WG2036128
C28-C36 Motor Oil Range	0.828	J	0.358	5.23	1	04/06/2023 19:25	WG2036128
(S) o-Terphenyl	73.8			18.0-148		04/06/2023 19:25	WG2036128

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Collected date/time: 03/29/23 07:48

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.9		1	04/04/2023 06:18	WG2034638

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1320		9.80	21.3	1	04/05/2023 02:40	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0231	0.106	1	04/06/2023 21:34	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120		04/06/2023 21:34	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000528	0.00113	1	04/05/2023 03:25	WG2035824
Toluene	U		0.00147	0.00565	1	04/05/2023 03:25	WG2035824
Ethylbenzene	U		0.000833	0.00282	1	04/05/2023 03:25	WG2035824
Total Xylenes	U		0.000994	0.00734	1	04/05/2023 03:25	WG2035824
(S) Toluene-d8	93.8			75.0-131		04/05/2023 03:25	WG2035824
(S) 4-Bromofluorobenzene	109			67.0-138		04/05/2023 03:25	WG2035824
(S) 1,2-Dichloroethane-d4	90.3			70.0-130		04/05/2023 03:25	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.71	4.26	1	04/06/2023 20:58	WG2036128
C28-C36 Motor Oil Range	2.00	J	0.292	4.26	1	04/06/2023 20:58	WG2036128
(S) o-Terphenyl	63.1			18.0-148		04/06/2023 20:58	WG2036128

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/29/23 07:49

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.9		1	04/04/2023 06:18	WG2034638

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1190		9.89	21.5	1.01	04/05/2023 02:50	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0231	0.107	1	04/06/2023 21:54	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	94.9			77.0-120		04/06/2023 21:54	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000558	0.00120	1	04/05/2023 03:46	WG2035824
Toluene	U		0.00155	0.00598	1	04/05/2023 03:46	WG2035824
Ethylbenzene	U		0.000881	0.00299	1	04/05/2023 03:46	WG2035824
Total Xylenes	U		0.00105	0.00777	1	04/05/2023 03:46	WG2035824
(S) Toluene-d8	92.6			75.0-131		04/05/2023 03:46	WG2035824
(S) 4-Bromofluorobenzene	110			67.0-138		04/05/2023 03:46	WG2035824
(S) 1,2-Dichloroethane-d4	88.9			70.0-130		04/05/2023 03:46	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.71	4.26	1	04/06/2023 21:11	WG2036128
C28-C36 Motor Oil Range	1.86	J	0.292	4.26	1	04/06/2023 21:11	WG2036128
(S) o-Terphenyl	100			18.0-148		04/06/2023 21:11	WG2036128

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.9		1	04/04/2023 06:18	WG2034638

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	mg/kg		mg/kg	mg/kg			
Chloride	2190		50.6	110	5	04/05/2023 03:09	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	U		0.0239	0.110	1	04/06/2023 23:13	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		04/06/2023 23:13	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	mg/kg		mg/kg	mg/kg			
Benzene	U		0.000560	0.00120	1	04/05/2023 04:08	WG2035824
Toluene	U		0.00156	0.00600	1	04/05/2023 04:08	WG2035824
Ethylbenzene	U		0.000884	0.00300	1	04/05/2023 04:08	WG2035824
Total Xylenes	U		0.00106	0.00780	1	04/05/2023 04:08	WG2035824
(S) Toluene-d8	96.3			75.0-131		04/05/2023 04:08	WG2035824
(S) 4-Bromofluorobenzene	108			67.0-138		04/05/2023 04:08	WG2035824
(S) 1,2-Dichloroethane-d4	91.7			70.0-130		04/05/2023 04:08	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.77	4.40	1	04/06/2023 19:38	WG2036128
C28-C36 Motor Oil Range	1.76	J	0.301	4.40	1	04/06/2023 19:38	WG2036128
(S) o-Terphenyl	90.6			18.0-148		04/06/2023 19:38	WG2036128

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Collected date/time: 03/29/23 07:51

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.6		1	04/04/2023 08:54	WG2034639

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	112		11.9	25.8	1	04/05/2023 03:18	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0280	0.129	1	04/06/2023 23:34	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		04/06/2023 23:34	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000738	0.00158	1	04/05/2023 04:29	WG2035824
Toluene	U		0.00205	0.00790	1	04/05/2023 04:29	WG2035824
Ethylbenzene	U		0.00116	0.00395	1	04/05/2023 04:29	WG2035824
Total Xylenes	U		0.00139	0.0103	1	04/05/2023 04:29	WG2035824
(S) Toluene-d8	94.8			75.0-131		04/05/2023 04:29	WG2035824
(S) 4-Bromofluorobenzene	107			67.0-138		04/05/2023 04:29	WG2035824
(S) 1,2-Dichloroethane-d4	94.6			70.0-130		04/05/2023 04:29	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.08	5.16	1	04/06/2023 11:46	WG2036134
C28-C36 Motor Oil Range	0.975	B J	0.353	5.16	1	04/06/2023 11:46	WG2036134
(S) o-Terphenyl	29.6			18.0-148		04/06/2023 11:46	WG2036134

Collected date/time: 03/29/23 07:52

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.7		1	04/04/2023 08:54	WG2034639

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	827		10.6	23.0	1.03	04/05/2023 03:28	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0242	0.111	1	04/06/2023 23:54	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	97.6			77.0-120		04/06/2023 23:54	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000574	0.00123	1	04/05/2023 04:50	WG2035824
Toluene	U		0.00160	0.00615	1	04/05/2023 04:50	WG2035824
Ethylbenzene	U		0.000907	0.00308	1	04/05/2023 04:50	WG2035824
Total Xylenes	U		0.00108	0.00800	1	04/05/2023 04:50	WG2035824
(S) Toluene-d8	93.8			75.0-131		04/05/2023 04:50	WG2035824
(S) 4-Bromofluorobenzene	106			67.0-138		04/05/2023 04:50	WG2035824
(S) 1,2-Dichloroethane-d4	91.7			70.0-130		04/05/2023 04:50	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.79	4.46	1	04/06/2023 11:58	WG2036134
C28-C36 Motor Oil Range	1.86	B J	0.305	4.46	1	04/06/2023 11:58	WG2036134
(S) o-Terphenyl	62.7			18.0-148		04/06/2023 11:58	WG2036134

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Collected date/time: 03/29/23 08:35

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.5		1	04/04/2023 08:54	WG2034639

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	24.8	J	11.6	25.2	1	04/05/2023 03:56	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0276	0.127	1.01	04/07/2023 00:15	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	97.0			77.0-120		04/07/2023 00:15	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000709	0.00152	1	04/05/2023 05:12	WG2035824
Toluene	U		0.00197	0.00759	1	04/05/2023 05:12	WG2035824
Ethylbenzene	U		0.00112	0.00380	1	04/05/2023 05:12	WG2035824
Total Xylenes	U		0.00134	0.00987	1	04/05/2023 05:12	WG2035824
(S) Toluene-d8	94.8			75.0-131		04/05/2023 05:12	WG2035824
(S) 4-Bromofluorobenzene	107			67.0-138		04/05/2023 05:12	WG2035824
(S) 1,2-Dichloroethane-d4	96.0			70.0-130		04/05/2023 05:12	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.03	5.03	1	04/06/2023 13:00	WG2036134
C28-C36 Motor Oil Range	3.61	B J	0.345	5.03	1	04/06/2023 13:00	WG2036134
(S) o-Terphenyl	60.4			18.0-148		04/06/2023 13:00	WG2036134

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/29/23 08:36

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.4		1	04/04/2023 08:54	WG2034639

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	31.3		11.7	25.4	1.02	04/05/2023 04:06	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0292	J	0.0270	0.124	1	04/07/2023 00:35	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		04/07/2023 00:35	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000695	0.00149	1	04/05/2023 05:33	WG2035824
Toluene	U		0.00193	0.00744	1	04/05/2023 05:33	WG2035824
Ethylbenzene	U		0.00110	0.00372	1	04/05/2023 05:33	WG2035824
Total Xylenes	U		0.00131	0.00967	1	04/05/2023 05:33	WG2035824
(S) Toluene-d8	94.5			75.0-131		04/05/2023 05:33	WG2035824
(S) 4-Bromofluorobenzene	112			67.0-138		04/05/2023 05:33	WG2035824
(S) 1,2-Dichloroethane-d4	95.9			70.0-130		04/05/2023 05:33	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.21	J	2.00	4.97	1	04/06/2023 12:10	WG2036134
C28-C36 Motor Oil Range	3.02	B J	0.341	4.97	1	04/06/2023 12:10	WG2036134
(S) o-Terphenyl	59.5			18.0-148		04/06/2023 12:10	WG2036134

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Collected date/time: 03/29/23 08:37

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	04/04/2023 08:54	WG2034639

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	33.2		9.84	21.4	1.02	04/05/2023 04:16	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0228	0.105	1	04/07/2023 00:56	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		04/07/2023 00:56	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000518	0.00111	1.01	04/05/2023 05:54	WG2035824
Toluene	U		0.00144	0.00554	1.01	04/05/2023 05:54	WG2035824
Ethylbenzene	U		0.000816	0.00278	1.01	04/05/2023 05:54	WG2035824
Total Xylenes	U		0.000975	0.00720	1.01	04/05/2023 05:54	WG2035824
(S) Toluene-d8	95.4			75.0-131		04/05/2023 05:54	WG2035824
(S) 4-Bromofluorobenzene	111			67.0-138		04/05/2023 05:54	WG2035824
(S) 1,2-Dichloroethane-d4	94.8			70.0-130		04/05/2023 05:54	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.78	<u>J</u>	1.69	4.19	1	04/06/2023 13:00	WG2036134
C28-C36 Motor Oil Range	7.69		0.287	4.19	1	04/06/2023 13:00	WG2036134
(S) o-Terphenyl	65.6			18.0-148		04/06/2023 13:00	WG2036134

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/29/23 08:38

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.5		1	04/04/2023 08:54	WG2034639

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	94.3		11.3	24.5	1	04/05/2023 04:25	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0266	0.123	1	04/07/2023 01:16	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		04/07/2023 01:16	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000679	0.00146	1	04/05/2023 06:15	WG2035824
Toluene	U		0.00189	0.00728	1	04/05/2023 06:15	WG2035824
Ethylbenzene	U		0.00107	0.00364	1	04/05/2023 06:15	WG2035824
Total Xylenes	U		0.00128	0.00946	1	04/05/2023 06:15	WG2035824
(S) Toluene-d8	93.2			75.0-131		04/05/2023 06:15	WG2035824
(S) 4-Bromofluorobenzene	108			67.0-138		04/05/2023 06:15	WG2035824
(S) 1,2-Dichloroethane-d4	90.5			70.0-130		04/05/2023 06:15	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.98	4.91	1	04/06/2023 12:10	WG2036134
C28-C36 Motor Oil Range	4.16	B J	0.336	4.91	1	04/06/2023 12:10	WG2036134
(S) o-Terphenyl	57.8			18.0-148		04/06/2023 12:10	WG2036134

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/29/23 08:39

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.1		1	04/04/2023 08:54	WG2034639

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	286		9.47	20.6	1	04/05/2023 04:35	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	04/07/2023 01:37	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	95.6			77.0-120		04/07/2023 01:37	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000495	0.00106	1	04/05/2023 06:37	WG2035824
Toluene	U		0.00138	0.00530	1	04/05/2023 06:37	WG2035824
Ethylbenzene	U		0.000781	0.00265	1	04/05/2023 06:37	WG2035824
Total Xylenes	U		0.000932	0.00688	1	04/05/2023 06:37	WG2035824
(S) Toluene-d8	93.7			75.0-131		04/05/2023 06:37	WG2035824
(S) 4-Bromofluorobenzene	109			67.0-138		04/05/2023 06:37	WG2035824
(S) 1,2-Dichloroethane-d4	91.7			70.0-130		04/05/2023 06:37	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U	J3	1.66	4.12	1	04/06/2023 19:51	WG2036128
C28-C36 Motor Oil Range	2.28	J	0.282	4.12	1	04/06/2023 19:51	WG2036128
(S) o-Terphenyl	72.4			18.0-148		04/06/2023 19:51	WG2036128

Collected date/time: 03/29/23 08:40

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.1		1	04/04/2023 08:54	WG2034639

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	113		11.3	24.7	1.05	04/05/2023 04:44	WG2035812

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0255	0.117	1	04/07/2023 01:57	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		04/07/2023 01:57	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000631	0.00135	1	04/05/2023 06:58	WG2035824
Toluene	U		0.00176	0.00675	1	04/05/2023 06:58	WG2035824
Ethylbenzene	U		0.000995	0.00338	1	04/05/2023 06:58	WG2035824
Total Xylenes	U		0.00119	0.00878	1	04/05/2023 06:58	WG2035824
(S) Toluene-d8	93.0			75.0-131		04/05/2023 06:58	WG2035824
(S) 4-Bromofluorobenzene	110			67.0-138		04/05/2023 06:58	WG2035824
(S) 1,2-Dichloroethane-d4	91.0			70.0-130		04/05/2023 06:58	WG2035824

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.89	4.70	1	04/06/2023 12:23	WG2036134
C28-C36 Motor Oil Range	1.27	B J	0.322	4.70	1	04/06/2023 12:23	WG2036134
(S) o-Terphenyl	58.6			18.0-148		04/06/2023 12:23	WG2036134

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/29/23 08:41

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.8		1	04/04/2023 08:54	WG2034639

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	22.7	J	10.8	23.5	1.02	04/06/2023 09:10	WG2036612

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0250	0.115	1	04/07/2023 02:17	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	95.6			77.0-120		04/07/2023 02:17	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000609	0.00130	1	04/05/2023 16:24	WG2036251
Toluene	U		0.00169	0.00652	1	04/05/2023 16:24	WG2036251
Ethylbenzene	U		0.000961	0.00326	1	04/05/2023 16:24	WG2036251
Total Xylenes	U		0.00115	0.00847	1	04/05/2023 16:24	WG2036251
(S) Toluene-d8	96.3			75.0-131		04/05/2023 16:24	WG2036251
(S) 4-Bromofluorobenzene	90.9			67.0-138		04/05/2023 16:24	WG2036251
(S) 1,2-Dichloroethane-d4	110			70.0-130		04/05/2023 16:24	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	20.5		1.85	4.61	1	04/06/2023 12:48	WG2036134
C28-C36 Motor Oil Range	28.1		0.316	4.61	1	04/06/2023 12:48	WG2036134
(S) o-Terphenyl	61.3			18.0-148		04/06/2023 12:48	WG2036134

Collected date/time: 03/29/23 08:43

L1600441

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.4		1	04/04/2023 08:54	WG2034639

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	71.9		9.44	20.5	1.01	04/06/2023 09:26	WG2036612

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	04/07/2023 02:38	WG2037365
(S) a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		04/07/2023 02:38	WG2037365

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000482	0.00103	1	04/05/2023 16:42	WG2036251
Toluene	U		0.00134	0.00517	1	04/05/2023 16:42	WG2036251
Ethylbenzene	U		0.000761	0.00258	1	04/05/2023 16:42	WG2036251
Total Xylenes	U		0.000909	0.00671	1	04/05/2023 16:42	WG2036251
(S) Toluene-d8	93.3			75.0-131		04/05/2023 16:42	WG2036251
(S) 4-Bromofluorobenzene	92.4			67.0-138		04/05/2023 16:42	WG2036251
(S) 1,2-Dichloroethane-d4	115			70.0-130		04/05/2023 16:42	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.67		1.64	4.07	1	04/06/2023 12:48	WG2036134
C28-C36 Motor Oil Range	12.1		0.279	4.07	1	04/06/2023 12:48	WG2036134
(S) o-Terphenyl	58.9			18.0-148		04/06/2023 12:48	WG2036134

Total Solids by Method 2540 G-2011 [L1600441-01,02](#)

Method Blank (MB)

(MB) R3909440-1 04/04/23 06:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1600429-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1600429-24 04/04/23 06:49 • (DUP) R3909440-3 04/04/23 06:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	75.5	77.2	1	2.28		10

Laboratory Control Sample (LCS)

(LCS) R3909440-2 04/04/23 06:49

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁷Gl

⁸Al

⁹Sc

Total Solids by Method 2540 G-2011 [L1600441-03,04,05,06,07,08,09,10,11,12](#)

Method Blank (MB)

(MB) R3909427-1 04/04/23 06:18

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1600441-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1600441-03 04/04/23 06:18 • (DUP) R3909427-3 04/04/23 06:18

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	94.4	94.1	1	0.374		10

Laboratory Control Sample (LCS)

(LCS) R3909427-2 04/04/23 06:18

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁷Gl

⁸Al

⁹Sc

Total Solids by Method 2540 G-2011 [L1600441-13,14,15,16,17,18,19,20,21,22](#)

Method Blank (MB)

(MB) R3909535-1 04/04/23 08:54

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1600441-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1600441-13 04/04/23 08:54 • (DUP) R3909535-3 04/04/23 08:54

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	77.6	76.7	1	1.11		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3909535-2 04/04/23 08:54

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁹Sc

Wet Chemistry by Method 300.0

[L1600441-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3909500-1 04/04/23 23:53

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1600441-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1600441-01 04/05/23 00:27 • (DUP) R3909500-3 04/05/23 00:36

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	202	190	1.04	5.80		20

L1600441-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1600441-11 04/05/23 02:50 • (DUP) R3909500-6 04/05/23 02:59

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	1190	1300	1.04	8.56		20

Laboratory Control Sample (LCS)

(LCS) R3909500-2 04/05/23 00:02

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	207	104	90.0-110	

L1600441-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600441-01 04/05/23 00:27 • (MS) R3909500-4 04/05/23 00:45 • (MSD) R3909500-5 04/05/23 00:55

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	516	202	728	709	102	98.2	1.04	80.0-120			2.70	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 300.0

L1600441-21,22

Method Blank (MB)

(MB) R3910250-1 04/06/23 05:58

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1600429-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1600429-27 04/06/23 08:06 • (DUP) R3910250-3 04/06/23 08:22

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	951	922	1	3.11		20

L1601781-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1601781-01 04/06/23 10:45 • (DUP) R3910250-4 04/06/23 11:01

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3910250-2 04/06/23 06:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	202	101	90.0-110	

L1601781-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1601781-01 04/06/23 10:45 • (MS) R3910250-5 04/06/23 11:17 • (MSD) R3910250-6 04/06/23 11:33

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	603	U	610	607	101	101	1	80.0-120			0.437	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1600441-01,02,03,04,05,06,07,08,09](#)

Method Blank (MB)

(MB) R3911084-2 04/06/23 10:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3911084-1 04/06/23 09:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.65	84.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1600441-10,11,12,13,14,15,16,17,18,19,20,21,22](#)

Method Blank (MB)

(MB) R3911085-2 04/06/23 20:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3911085-1 04/06/23 19:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.90	89.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			102	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

L1600441-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3909543-3 04/04/23 22:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	92.6			75.0-131
(S) 4-Bromofluorobenzene	108			67.0-138
(S) 1,2-Dichloroethane-d4	93.6			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3909543-1 04/04/23 20:43 • (LCSD) R3909543-2 04/04/23 21:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.110	0.112	88.0	89.6	70.0-123			1.80	20
Toluene	0.125	0.115	0.117	92.0	93.6	75.0-121			1.72	20
Ethylbenzene	0.125	0.118	0.125	94.4	100	74.0-126			5.76	20
Xylenes, Total	0.375	0.350	0.367	93.3	97.9	72.0-127			4.74	20
(S) Toluene-d8				91.2	92.6	75.0-131				
(S) 4-Bromofluorobenzene				109	111	67.0-138				
(S) 1,2-Dichloroethane-d4				108	107	70.0-130				

L1600441-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600441-10 04/05/23 03:25 • (MS) R3909543-4 04/05/23 07:20 • (MSD) R3909543-5 04/05/23 07:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.141	U	0.114	0.0895	80.8	63.4	1	10.0-149			24.2	37
Toluene	0.141	U	0.123	0.102	87.2	72.0	1	10.0-156			19.1	38
Ethylbenzene	0.141	U	0.121	0.101	85.6	71.4	1	10.0-160			18.1	38
Xylenes, Total	0.424	U	0.357	0.296	84.3	69.9	1	10.0-160			18.7	38
(S) Toluene-d8					91.0	92.4		75.0-131				
(S) 4-Bromofluorobenzene					106	105		67.0-138				
(S) 1,2-Dichloroethane-d4					92.3	92.4		70.0-130				

Volatile Organic Compounds (GC/MS) by Method 8260B

L1600441-21,22

Method Blank (MB)

(MB) R3910105-3 04/05/23 11:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	98.8			75.0-131
(S) 4-Bromofluorobenzene	93.3			67.0-138
(S) 1,2-Dichloroethane-d4	109			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3910105-1 04/05/23 10:02 • (LCSD) R3910105-2 04/05/23 10:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.141	0.141	113	113	70.0-123			0.000	20
Toluene	0.125	0.132	0.127	106	102	75.0-121			3.86	20
Ethylbenzene	0.125	0.124	0.128	99.2	102	74.0-126			3.17	20
Xylenes, Total	0.375	0.390	0.377	104	101	72.0-127			3.39	20
(S) Toluene-d8				96.4	96.9	75.0-131				
(S) 4-Bromofluorobenzene				93.4	91.9	67.0-138				
(S) 1,2-Dichloroethane-d4				122	121	70.0-130				

7 Gl

8 Al

9 Sc

L1600429-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600429-16 04/05/23 12:35 • (MS) R3910105-4 04/05/23 17:19 • (MSD) R3910105-5 04/05/23 17:38

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.139	U	0.108	0.184	77.7	132	1	10.0-149		J3	51.8	37
Toluene	0.139	U	0.113	0.134	80.8	96.0	1	10.0-156			17.2	38
Ethylbenzene	0.139	U	0.102	0.168	73.4	121	1	10.0-160		J3	48.9	38
Xylenes, Total	0.418	U	0.309	0.522	73.9	125	1	10.0-160		J3	51.3	38
(S) Toluene-d8					103	70.4		75.0-131		J2		
(S) 4-Bromofluorobenzene					91.8	61.4		67.0-138		J2		
(S) 1,2-Dichloroethane-d4					116	115		70.0-130				

Semi-Volatile Organic Compounds (GC) by Method 8015M

[L1600441-01,02,03,04,05,06,07,08,09,10,11,12,19](#)

Method Blank (MB)

(MB) R3910502-1 04/06/23 17:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	87.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3910502-2 04/06/23 17:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	40.1	80.2	50.0-150	
(S) o-Terphenyl			89.6	18.0-148	

L1600441-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600441-19 04/06/23 19:51 • (MS) R3910502-3 04/06/23 20:03 • (MSD) R3910502-4 04/06/23 20:19

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.4	U	35.1	45.8	71.0	92.1	1	50.0-150		J3	26.5	20
(S) o-Terphenyl					71.2	99.2		18.0-148				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M [L1600441-13,14,15,16,17,18,20,21,22](#)

Method Blank (MB)

(MB) R3910276-1 04/06/23 11:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.624	⬇	0.274	4.00
(S) o-Terphenyl	62.8			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3910276-2 04/06/23 11:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	35.5	71.0	50.0-150	
(S) o-Terphenyl			68.0	18.0-148	

L1601440-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1601440-03 04/06/23 13:13 • (MS) R3910276-3 04/06/23 13:25 • (MSD) R3910276-4 04/06/23 13:38

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	48.0	U	37.7	35.7	78.5	74.8	1	50.0-150			5.45	20
(S) o-Terphenyl					65.0	60.4		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(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
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	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.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Arcadis - Chevron - NM 401 East Main Street Suite 400 El Paso, TX 79901 Report to: Sarah Johnson Project Description: Pardue Farms 27-12 Phone: 432-227-0266 Collected by (print): Sarah Widen Collected by (signature): Immediately Packed on Ice N ☐ Y ☒				Billing Information: Accounts Payable 401 East Main Street Suite 400 El Paso, TX 79901 Email To: russell.grant@arcadis.com;sarah.johnson@arca				Chain of Custody Page 1 of 3 PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf	
				City/State Collected: Loving NM Please Circle: PT ☐ MT ☒ CT ☐ ET ☐		Analysis / Container / Preservative V8260BTEX,TPH,CI-300 4ozClr-NoPres			
Client Project # 30093248.0003B		Lab Project # CHEVARCNM-PARDUE		Site/Facility ID # PARDUE FARMS 27-12		P.O. #			
Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day		Quote #		Date Results Needed Standard		No. of Cntrs			
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time				
SB-25-S-0-1-230329	G	SS	0-1	03/29/23	0727	1	X		
SB-25-S-2-230329	G	SS	2	03/29/23	0730	1	X		
SB-25-S-4-230329	G	SS	4	03/29/23	0731	1	X		
SB-25-S-9-10-230329	G	SS	9-10	03/29/23	0732	1	X		
SB-25-S-14-15-230329	G	SS	14-15	03/29/23	0733	1	X		
SB-25-S-19-20-230329	G	SS	19-20	03/29/23	0734	1	X		
SB-25-S-24-25-230329	G	SS	24-25	03/29/23	0735	1	X		
SB-26-S-0-1-230329	G	SS	0-1	03/29/23	0746	1	X		
SB-26-S-2-230329	G	SS	2	03/29/23	0747	1	X		
SB-26-S-4-230329	G	SS	4	03/29/23	0748	1	X		
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other									
Remarks:TPH = GRO,DRONM Samples returned via: ___ UPS ___ FedEx ___ Courier									
Tracking #									
Relinquished by: (Signature) 		Date: 03/30/23 Time: 9:45		Received by: (Signature) 		Trip Blank Received: Yes ☒ No ☐ HCL / MeOH TBR			
Relinquished by: (Signature) 		Date: 3/30/23 Time: 1700		Received by: (Signature) 		Temp: 5.4 °C Bottles Received: 22 5.4+0=5.4			
Relinquished by: (Signature) 		Date: Time:		Received for lab by: (Signature) 		Date: 3/31/23 Time: 800			
If preservation required by Login: Date/Time									
Hold: Condition: NCF / OK									

Company Name/Address: Arcadis - Chevron - NM		Billing Information: Accounts Payable 401 East Main Street Suite 400 El Paso, TX 79901		Analysis / Container / Preservative		Chain of Custody Page <u>138</u> of <u>293</u>	
401 East Main Street Suite 400 El Paso, TX 79901		Email To: russell.grant@arcadis.com;sarah.johnson@arcadis.com		Pres Chk		 MT JULIET, TN 12065 Lebanon Rd. Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf	
Report to: Sarah Johnson		City/State Collected: Las Vegas NM		Please Circle: PT MT <u>OT</u>			
Project Description: Pardue Farms 27-12		Client Project # 30093248.0003B		Lab Project # CHEVARCNM-PARDUE			
Phone: 432-227-0266		Site/Facility ID # PARDUE FARMS 27-12		P.O. #			
Collected by (print): Sarah Adlen		Rush? (Lab MUST Be Notified) Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day ☐		Quote #			
Collected by (signature): <i>[Signature]</i>		Date Results Needed Standard		No. of Ctrts			
Immediately Packed on Ice N ☐ Y ☒							
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		
SB-26-S-9-10-230329	G	SS	9-10	03/29/23	0749	1	X
SB-26-S-14-15-230329	G	SS	14-15		0750	1	X
SB-26-S-19-20-230329	G	SS	19-20		0751	1	X
SB-26-S-24-25-230329	G	SS	24-25		0752	1	X
SB-24-S-0-1-230329	G	SS	0-1		0835	1	X
SB-24-S-2-230329	G	SS	2		0836	1	X
SB-24-S-4-230329	G	SS	4		0837	1	X
SB-24-S-9-10-230329	G	SS	9		0838	1	X
SB-24-S-14-15-230329	G	SS	14		0839	1	X
SB-24-S-19-20-230329	G	SS	19-20	03/29/23	0840	1	X
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:TPH = GRO,DRONM		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☐ Y ☐ N Preservation Correct/Checked: ☐ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N	
Samples returned via: ___ UPS ___ FedEx ___ Courier		Tracking #					
Relinquished by: (Signature)	Date: 03/30/23	Time: 9:45	Received by: (Signature)	Trip Blank Received: Yes/No ☒ Yes ☐ No HCL/MeqH TBR	Bottles Received: 5.4+0:5.4 22		
Relinquished by: (Signature)	Date: 3/30/23	Time: 1700	Received by: (Signature)	If preservation required by Login: Date/Time			
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3/31/23	Time: 800	Hold: 800	
						Condition: NCF / OK	

Released to Imaging: 1/30/2025 4:46:40 PM



ANALYTICAL REPORT

April 06, 2023

Arcadis - Chevron - NM

Sample Delivery Group: L1599426
Samples Received: 03/29/2023
Project Number: 30155845. 00003
Description: Pardue Farms 27-12
Site: PARDUE FARMS 27-12
Report To: Russell Grant
401 East Main Street
Suite 400
El Paso, TX 79901

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chris McCord".

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 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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	1 Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	2 Tc
Cn: Case Narrative	6	
Sr: Sample Results	7	3 Ss
MW-8-S-0-1-230327 L1599426-01	7	
MW-8-S-2-230327 L1599426-02	8	4 Cn
MW-8-S-4-230327 L1599426-03	9	5 Sr
MW-8-S-9-10-230327 L1599426-04	10	
MW-8-S-14-15-230327 L1599426-05	11	6 Qc
MW-8-S-19-20-230327 L1599426-06	12	
MW-8-S-24-25-230327 L1599426-07	13	7 Gl
MW-8-S-29-30-230327 L1599426-08	14	8 Al
MW-8-S-34-35-230327 L1599426-09	15	
MW-8-S-39-40-230327 L1599426-10	16	9 Sc
MW-8-S-44-45-230327 L1599426-11	17	
MW-8-S-49-50-230327 L1599426-12	18	
MW-8-S-54-55-230327 L1599426-13	19	
Qc: Quality Control Summary	20	
Total Solids by Method 2540 G-2011	20	
Wet Chemistry by Method 300.0	22	
Volatile Organic Compounds (GC) by Method 8015D/GRO	23	
Volatile Organic Compounds (GC/MS) by Method 8260B	24	
Semi-Volatile Organic Compounds (GC) by Method 8015M	27	
Gl: Glossary of Terms	29	
Al: Accreditations & Locations	30	
Sc: Sample Chain of Custody	31	

MW-8-S-0-1-230327 L1599426-01 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:11
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032611	1	03/30/23 09:12	03/30/23 09:28	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1	03/29/23 23:00	03/30/23 03:25	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 17:51	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033396	1	03/30/23 20:09	03/31/23 16:38	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2032552	1	03/31/23 09:18	03/31/23 16:04	JAS	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

MW-8-S-2-230327 L1599426-02 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:13
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032611	1	03/30/23 09:12	03/30/23 09:28	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1.05	03/29/23 23:00	03/30/23 03:34	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 18:14	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033396	1	03/30/23 20:09	03/31/23 17:00	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2032552	1	03/31/23 09:18	03/31/23 16:16	JAS	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

MW-8-S-4-230327 L1599426-03 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:15
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032611	1	03/30/23 09:12	03/30/23 09:28	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1	03/29/23 23:00	03/30/23 03:44	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 18:37	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033396	1	03/30/23 20:09	03/31/23 17:21	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2034296	1	04/03/23 05:47	04/03/23 15:28	JAS	Mt. Juliet, TN

9Sc

MW-8-S-9-10-230327 L1599426-04 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:17
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032611	1	03/30/23 09:12	03/30/23 09:28	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1	03/29/23 23:00	03/30/23 04:03	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 19:00	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033396	1	03/30/23 20:09	03/31/23 17:43	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2034296	1	04/03/23 05:47	04/03/23 15:40	JAS	Mt. Juliet, TN

Collected by Daniel McGee
Collected date/time 03/27/23 15:18
Received date/time 03/29/23 08:00

MW-8-S-14-15-230327 L1599426-05 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032612	1	03/30/23 18:07	03/30/23 18:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1.04	03/29/23 23:00	03/30/23 04:13	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 19:23	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033396	1	03/30/23 20:09	03/31/23 18:04	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2034296	1	04/03/23 05:47	04/03/23 15:52	JAS	Mt. Juliet, TN

MW-8-S-19-20-230327 L1599426-06 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:19
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032612	1	03/30/23 18:07	03/30/23 18:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1	03/29/23 23:00	03/30/23 04:22	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 19:46	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033396	1	03/30/23 20:09	03/31/23 18:25	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2034296	1	04/03/23 05:47	04/03/23 16:05	JAS	Mt. Juliet, TN

1

Cp

2

Tc

3

Ss

4

Cn

MW-8-S-24-25-230327 L1599426-07 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:23
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032612	1	03/30/23 18:07	03/30/23 18:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1.04	03/29/23 23:00	03/30/23 04:32	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 20:09	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033396	1	03/30/23 20:09	03/31/23 18:46	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2034296	1	04/03/23 05:47	04/03/23 16:17	JAS	Mt. Juliet, TN

5

Sr

6

Qc

7

Gl

8

Al

MW-8-S-29-30-230327 L1599426-08 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:25
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032612	1	03/30/23 18:07	03/30/23 18:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1.05	03/29/23 23:00	03/30/23 04:41	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 20:32	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033396	1	03/30/23 20:09	03/31/23 19:09	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2034296	1	04/03/23 05:47	04/03/23 16:30	JAS	Mt. Juliet, TN

9

Sc

MW-8-S-34-35-230327 L1599426-09 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:30
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032612	1	03/30/23 18:07	03/30/23 18:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1	03/29/23 23:00	03/30/23 04:51	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 20:55	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033396	1	03/30/23 20:09	03/31/23 19:30	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2034296	1	04/03/23 05:47	04/03/23 16:42	JAS	Mt. Juliet, TN

MW-8-S-39-40-230327 L1599426-10 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:51
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032612	1	03/30/23 18:07	03/30/23 18:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1	03/29/23 23:00	03/30/23 05:19	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 21:18	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033396	1	03/30/23 20:09	03/31/23 19:51	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2034296	1	04/03/23 05:47	04/03/23 16:55	JAS	Mt. Juliet, TN

MW-8-S-44-45-230327 L1599426-11 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:53
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032612	1	03/30/23 18:07	03/30/23 18:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1	03/29/23 23:00	03/30/23 05:29	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 21:41	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2033396	1	03/30/23 20:09	03/31/23 20:12	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2034296	1	04/03/23 05:47	04/03/23 18:22	JAS	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

MW-8-S-49-50-230327 L1599426-12 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:36
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032612	1	03/30/23 18:07	03/30/23 18:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1.04	03/29/23 23:00	03/30/23 05:39	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 22:04	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2035658	1	03/30/23 20:09	04/04/23 22:57	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2034296	1	04/03/23 05:47	04/03/23 17:07	JAS	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

MW-8-S-54-55-230327 L1599426-13 Solid

Collected by Daniel McGee
Collected date/time 03/27/23 15:59
Received date/time 03/29/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2032612	1	03/30/23 18:07	03/30/23 18:20	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2032387	1	03/29/23 23:00	03/30/23 05:48	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2035397	1	03/30/23 20:09	04/04/23 22:26	BAM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036187	1	03/30/23 20:09	04/06/23 00:33	KSD	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2034296	1	04/03/23 05:47	04/03/23 17:44	JAS	Mt. Juliet, TN

9Sc

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

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.6		1	03/30/2023 09:28	WG2032611

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	76.5		10.2	22.1	1	03/30/2023 03:25	WG2032387

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0348	J	0.0239	0.110	1	04/04/2023 17:51	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	97.4			77.0-120		04/04/2023 17:51	WG2035397

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000564	0.00121	1	03/31/2023 16:38	WG2033396
Toluene	U		0.00157	0.00604	1	03/31/2023 16:38	WG2033396
Ethylbenzene	0.00278	J	0.000890	0.00302	1	03/31/2023 16:38	WG2033396
Total Xylenes	0.00896		0.00106	0.00785	1	03/31/2023 16:38	WG2033396
(S) Toluene-d8	92.1			75.0-131		03/31/2023 16:38	WG2033396
(S) 4-Bromofluorobenzene	115			67.0-138		03/31/2023 16:38	WG2033396
(S) 1,2-Dichloroethane-d4	88.8			70.0-130		03/31/2023 16:38	WG2033396

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5.92		1.78	4.41	1	03/31/2023 16:04	WG2032552
C28-C36 Motor Oil Range	27.5		0.302	4.41	1	03/31/2023 16:04	WG2032552
(S) o-Terphenyl	80.6			18.0-148		03/31/2023 16:04	WG2032552

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.1		1	03/30/2023 09:28	WG2032611

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	238		11.4	24.7	1.05	03/30/2023 03:34	WG2032387

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0375	J	0.0255	0.118	1	04/04/2023 18:14	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		04/04/2023 18:14	WG2035397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000631	0.00135	1	03/31/2023 17:00	WG2033396
Toluene	U		0.00176	0.00676	1	03/31/2023 17:00	WG2033396
Ethylbenzene	U		0.000996	0.00338	1	03/31/2023 17:00	WG2033396
Total Xylenes	0.00459	J	0.00119	0.00878	1	03/31/2023 17:00	WG2033396
(S) Toluene-d8	95.4			75.0-131		03/31/2023 17:00	WG2033396
(S) 4-Bromofluorobenzene	113			67.0-138		03/31/2023 17:00	WG2033396
(S) 1,2-Dichloroethane-d4	89.5			70.0-130		03/31/2023 17:00	WG2033396

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.89	4.70	1	03/31/2023 16:16	WG2032552
C28-C36 Motor Oil Range	3.49	J	0.322	4.70	1	03/31/2023 16:16	WG2032552
(S) o-Terphenyl	60.7			18.0-148		03/31/2023 16:16	WG2032552

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.0		1	03/30/2023 09:28	WG2032611

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1650		10.5	22.7	1	03/30/2023 03:44	WG2032387

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0302	J	0.0247	0.114	1	04/04/2023 18:37	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	98.5			77.0-120		04/04/2023 18:37	WG2035397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000595	0.00127	1	03/31/2023 17:21	WG2033396
Toluene	U		0.00166	0.00637	1	03/31/2023 17:21	WG2033396
Ethylbenzene	0.00261	J	0.000939	0.00319	1	03/31/2023 17:21	WG2033396
Total Xylenes	0.00240	J	0.00112	0.00828	1	03/31/2023 17:21	WG2033396
(S) Toluene-d8	92.0			75.0-131		03/31/2023 17:21	WG2033396
(S) 4-Bromofluorobenzene	111			67.0-138		03/31/2023 17:21	WG2033396
(S) 1,2-Dichloroethane-d4	88.1			70.0-130		03/31/2023 17:21	WG2033396

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.15	J	1.83	4.55	1	04/03/2023 15:28	WG2034296
C28-C36 Motor Oil Range	3.56	B J	0.311	4.55	1	04/03/2023 15:28	WG2034296
(S) o-Terphenyl	69.9			18.0-148		04/03/2023 15:28	WG2034296

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/27/23 15:17

L1599426

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.2		1	03/30/2023 09:28	WG2032611

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	998		11.5	24.9	1	03/30/2023 04:03	WG2032387

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0270	0.125	1	04/04/2023 19:00	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		04/04/2023 19:00	WG2035397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000698	0.00149	1	03/31/2023 17:43	WG2033396
Toluene	U		0.00194	0.00747	1	03/31/2023 17:43	WG2033396
Ethylbenzene	U		0.00110	0.00373	1	03/31/2023 17:43	WG2033396
Total Xylenes	0.00266	J	0.00131	0.00971	1	03/31/2023 17:43	WG2033396
(S) Toluene-d8	94.8			75.0-131		03/31/2023 17:43	WG2033396
(S) 4-Bromofluorobenzene	108			67.0-138		03/31/2023 17:43	WG2033396
(S) 1,2-Dichloroethane-d4	86.9			70.0-130		03/31/2023 17:43	WG2033396

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.01	4.98	1	04/03/2023 15:40	WG2034296
C28-C36 Motor Oil Range	0.928	B J	0.341	4.98	1	04/03/2023 15:40	WG2034296
(S) o-Terphenyl	47.4			18.0-148		04/03/2023 15:40	WG2034296

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.4		1	03/30/2023 18:20	WG2032612

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	962		10.2	22.3	1.04	03/30/2023 04:13	WG2032387

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0288	J	0.0232	0.107	1	04/04/2023 19:23	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	98.7			77.0-120		04/04/2023 19:23	WG2035397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000533	0.00114	1	03/31/2023 18:04	WG2033396
Toluene	U		0.00149	0.00571	1	03/31/2023 18:04	WG2033396
Ethylbenzene	0.00175	J	0.000842	0.00286	1	03/31/2023 18:04	WG2033396
Total Xylenes	0.00286	J	0.00101	0.00743	1	03/31/2023 18:04	WG2033396
(S) Toluene-d8	93.6			75.0-131		03/31/2023 18:04	WG2033396
(S) 4-Bromofluorobenzene	109			67.0-138		03/31/2023 18:04	WG2033396
(S) 1,2-Dichloroethane-d4	86.9			70.0-130		03/31/2023 18:04	WG2033396

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.86	J	1.72	4.28	1	04/03/2023 15:52	WG2034296
C28-C36 Motor Oil Range	2.72	B J	0.293	4.28	1	04/03/2023 15:52	WG2034296
(S) o-Terphenyl	68.6			18.0-148		04/03/2023 15:52	WG2034296

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.1		1	03/30/2023 18:20	WG2032612

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	931		12.4	27.0	1	03/30/2023 04:22	WG2032387

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0466	<u>J</u>	0.0293	0.135	1	04/04/2023 19:46	WG2035397
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	98.3			77.0-120		04/04/2023 19:46	WG2035397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000795	0.00170	1	03/31/2023 18:25	WG2033396
Toluene	U		0.00221	0.00851	1	03/31/2023 18:25	WG2033396
Ethylbenzene	0.00180	<u>J</u>	0.00125	0.00425	1	03/31/2023 18:25	WG2033396
Total Xylenes	0.00340	<u>J</u>	0.00150	0.0111	1	03/31/2023 18:25	WG2033396
(S) <i>Toluene-d8</i>	93.9			75.0-131		03/31/2023 18:25	WG2033396
(S) <i>4-Bromofluorobenzene</i>	108			67.0-138		03/31/2023 18:25	WG2033396
(S) <i>1,2-Dichloroethane-d4</i>	88.1			70.0-130		03/31/2023 18:25	WG2033396

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		2.17	5.40	1	04/03/2023 16:05	WG2034296
C28-C36 Motor Oil Range	1.20	<u>B J</u>	0.370	5.40	1	04/03/2023 16:05	WG2034296
(S) <i>o</i> -Terphenyl	44.8			18.0-148		04/03/2023 16:05	WG2034296

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.8		1	03/30/2023 18:20	WG2032612

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	983		11.6	25.1	1.04	03/30/2023 04:32	WG2032387

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0279	J	0.0262	0.121	1	04/04/2023 20:09	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120		04/04/2023 20:09	WG2035397

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000661	0.00141	1	03/31/2023 18:46	WG2033396
Toluene	0.00202	J	0.00184	0.00707	1	03/31/2023 18:46	WG2033396
Ethylbenzene	0.00160	J	0.00104	0.00354	1	03/31/2023 18:46	WG2033396
Total Xylenes	0.00286	J	0.00124	0.00919	1	03/31/2023 18:46	WG2033396
(S) Toluene-d8	89.7			75.0-131		03/31/2023 18:46	WG2033396
(S) 4-Bromofluorobenzene	110			67.0-138		03/31/2023 18:46	WG2033396
(S) 1,2-Dichloroethane-d4	88.1			70.0-130		03/31/2023 18:46	WG2033396

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.05	J	1.94	4.83	1	04/03/2023 16:17	WG2034296
C28-C36 Motor Oil Range	5.54		0.331	4.83	1	04/03/2023 16:17	WG2034296
(S) o-Terphenyl	61.0			18.0-148		04/03/2023 16:17	WG2034296

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.1		1	03/30/2023 18:20	WG2032612

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	960		13.8	29.9	1.05	03/30/2023 04:41	WG2032387

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0309	0.143	1	04/04/2023 20:32	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		04/04/2023 20:32	WG2035397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000865	0.00185	1	03/31/2023 19:09	WG2033396
Toluene	0.00287	J	0.00241	0.00926	1	03/31/2023 19:09	WG2033396
Ethylbenzene	0.00321	J	0.00137	0.00463	1	03/31/2023 19:09	WG2033396
Total Xylenes	0.00358	J	0.00163	0.0120	1	03/31/2023 19:09	WG2033396
(S) Toluene-d8	95.4			75.0-131		03/31/2023 19:09	WG2033396
(S) 4-Bromofluorobenzene	107			67.0-138		03/31/2023 19:09	WG2033396
(S) 1,2-Dichloroethane-d4	85.6			70.0-130		03/31/2023 19:09	WG2033396

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.45	J	2.30	5.70	1	04/03/2023 16:30	WG2034296
C28-C36 Motor Oil Range	3.98	B J	0.391	5.70	1	04/03/2023 16:30	WG2034296
(S) o-Terphenyl	60.3			18.0-148		04/03/2023 16:30	WG2034296

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.3		1	03/30/2023 18:20	WG2032612

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	752		14.8	32.1	1	03/30/2023 04:51	WG2032387

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0348	0.160	1	04/04/2023 20:55	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-120		04/04/2023 20:55	WG2035397

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.00103	0.00221	1	03/31/2023 19:30	WG2033396
Toluene	U		0.00288	0.0111	1	03/31/2023 19:30	WG2033396
Ethylbenzene	U		0.00163	0.00553	1	03/31/2023 19:30	WG2033396
Total Xylenes	0.00334	J	0.00195	0.0144	1	03/31/2023 19:30	WG2033396
(S) Toluene-d8	98.0			75.0-131		03/31/2023 19:30	WG2033396
(S) 4-Bromofluorobenzene	113			67.0-138		03/31/2023 19:30	WG2033396
(S) 1,2-Dichloroethane-d4	91.6			70.0-130		03/31/2023 19:30	WG2033396

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.56		2.58	6.42	1	04/03/2023 16:42	WG2034296
C28-C36 Motor Oil Range	9.80		0.439	6.42	1	04/03/2023 16:42	WG2034296
(S) o-Terphenyl	63.6			18.0-148		04/03/2023 16:42	WG2034296

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.3		1	03/30/2023 18:20	WG2032612

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	817		12.4	26.9	1	03/30/2023 05:19	WG2032387

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0292	<u>J</u>	0.0292	0.135	1	04/04/2023 21:18	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	98.5			77.0-120		04/04/2023 21:18	WG2035397

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000790	0.00169	1	03/31/2023 19:51	WG2033396
Toluene	U		0.00220	0.00846	1	03/31/2023 19:51	WG2033396
Ethylbenzene	0.00140	<u>J</u>	0.00125	0.00423	1	03/31/2023 19:51	WG2033396
Total Xylenes	0.00181	<u>J</u>	0.00149	0.0110	1	03/31/2023 19:51	WG2033396
(S) Toluene-d8	93.8			75.0-131		03/31/2023 19:51	WG2033396
(S) 4-Bromofluorobenzene	113			67.0-138		03/31/2023 19:51	WG2033396
(S) 1,2-Dichloroethane-d4	88.6			70.0-130		03/31/2023 19:51	WG2033396

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.26	<u>J</u>	2.17	5.38	1	04/03/2023 16:55	WG2034296
C28-C36 Motor Oil Range	2.97	<u>B J</u>	0.369	5.38	1	04/03/2023 16:55	WG2034296
(S) o-Terphenyl	64.6			18.0-148		04/03/2023 16:55	WG2034296

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	71.7		1	03/30/2023 18:20	WG2032612

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	595		12.8	27.9	1	03/30/2023 05:29	WG2032387

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0302	0.139	1	04/04/2023 21:41	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		04/04/2023 21:41	WG2035397

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000837	0.00179	1	03/31/2023 20:12	WG2033396
Toluene	0.00235	J	0.00233	0.00896	1	03/31/2023 20:12	WG2033396
Ethylbenzene	0.00177	J	0.00132	0.00448	1	03/31/2023 20:12	WG2033396
Total Xylenes	0.00270	J	0.00158	0.0116	1	03/31/2023 20:12	WG2033396
(S) Toluene-d8	91.1			75.0-131		03/31/2023 20:12	WG2033396
(S) 4-Bromofluorobenzene	109			67.0-138		03/31/2023 20:12	WG2033396
(S) 1,2-Dichloroethane-d4	88.9			70.0-130		03/31/2023 20:12	WG2033396

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.91		2.24	5.58	1	04/03/2023 18:22	WG2034296
C28-C36 Motor Oil Range	7.07		0.382	5.58	1	04/03/2023 18:22	WG2034296
(S) o-Terphenyl	71.0			18.0-148		04/03/2023 18:22	WG2034296

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.2		1	03/30/2023 18:20	WG2032612

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	790		12.9	28.0	1.04	03/30/2023 05:39	WG2032387

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0292	0.135	1	04/04/2023 22:04	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		04/04/2023 22:04	WG2035397

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000792	0.00170	1	04/04/2023 22:57	WG2035658
Toluene	U		0.00221	0.00848	1	04/04/2023 22:57	WG2035658
Ethylbenzene	U		0.00125	0.00424	1	04/04/2023 22:57	WG2035658
Total Xylenes	0.00305	J	0.00149	0.0110	1	04/04/2023 22:57	WG2035658
(S) Toluene-d8	108			75.0-131		04/04/2023 22:57	WG2035658
(S) 4-Bromofluorobenzene	101			67.0-138		04/04/2023 22:57	WG2035658
(S) 1,2-Dichloroethane-d4	97.4			70.0-130		04/04/2023 22:57	WG2035658

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.17	5.39	1	04/03/2023 17:07	WG2034296
C28-C36 Motor Oil Range	2.26	B J	0.369	5.39	1	04/03/2023 17:07	WG2034296
(S) o-Terphenyl	67.4			18.0-148		04/03/2023 17:07	WG2034296

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.3		1	03/30/2023 18:20	WG2032612

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	674		12.4	26.9	1	03/30/2023 05:48	WG2032387

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0292	0.135	1	04/04/2023 22:26	WG2035397
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120		04/04/2023 22:26	WG2035397

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000789	0.00169	1	04/06/2023 00:33	WG2036187
Toluene	0.00284	J	0.00220	0.00845	1	04/06/2023 00:33	WG2036187
Ethylbenzene	U		0.00125	0.00423	1	04/06/2023 00:33	WG2036187
Total Xylenes	0.00423	J	0.00149	0.0110	1	04/06/2023 00:33	WG2036187
(S) Toluene-d8	103			75.0-131		04/06/2023 00:33	WG2036187
(S) 4-Bromofluorobenzene	103			67.0-138		04/06/2023 00:33	WG2036187
(S) 1,2-Dichloroethane-d4	92.2			70.0-130		04/06/2023 00:33	WG2036187

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.72		2.17	5.38	1	04/03/2023 17:44	WG2034296
C28-C36 Motor Oil Range	8.72		0.369	5.38	1	04/03/2023 17:44	WG2034296
(S) o-Terphenyl	66.9			18.0-148		04/03/2023 17:44	WG2034296

Total Solids by Method 2540 G-2011 [L1599426-01,02,03,04](#)

Method Blank (MB)

(MB) R3907612-1 03/30/23 09:28

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1599494-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1599494-07 03/30/23 09:28 • (DUP) R3907612-3 03/30/23 09:28

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.9	87.2	1	1.42		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3907612-2 03/30/23 09:28

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁹Sc

Total Solids by Method 2540 G-2011 [L1599426-05,06,07,08,09,10,11,12,13](#)

Method Blank (MB)

(MB) R3907701-1 03/30/23 18:20

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00200			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1599426-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1599426-09 03/30/23 18:20 • (DUP) R3907701-3 03/30/23 18:20

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	62.3	64.4	1	3.30		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3907701-2 03/30/23 18:20

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁹Sc

Wet Chemistry by Method 300.0

[L1599426-01,02,03,04,05,06,07,08,09,10,11,12,13](#)

Method Blank (MB)

(MB) R3907807-1 03/30/23 00:34

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1599426-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1599426-03 03/30/23 03:44 • (DUP) R3907807-3 03/30/23 03:53

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	1650	1690	1.02	2.76		20

L1599426-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1599426-13 03/30/23 05:48 • (DUP) R3907807-4 03/30/23 05:58

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	674	657	1	2.44		20

Laboratory Control Sample (LCS)

(LCS) R3907807-2 03/30/23 00:43

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	208	104	90.0-110	

L1599426-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1599426-13 03/30/23 05:48 • (MS) R3907807-5 03/30/23 06:07 • (MSD) R3907807-6 03/30/23 06:17

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	673	674	1390	1360	106	102	1	80.0-120			1.87	20

Volatile Organic Compounds (GC) by Method 8015D/GRO

Method Blank (MB)

(MB) R3909779-2 04/04/23 13:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3909779-1 04/04/23 12:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.03	91.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120	

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1599426-01,02,03,04,05,06,07,08,09,10,11](#)

Method Blank (MB)

(MB) R3909165-3 03/31/23 10:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	93.1			75.0-131
(S) 4-Bromofluorobenzene	109			67.0-138
(S) 1,2-Dichloroethane-d4	89.0			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3909165-1 03/31/23 08:49 • (LCSD) R3909165-2 03/31/23 09:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.104	0.0998	83.2	79.8	70.0-123			4.12	20
Toluene	0.125	0.113	0.0979	90.4	78.3	75.0-121			14.3	20
Ethylbenzene	0.125	0.111	0.109	88.8	87.2	74.0-126			1.82	20
Xylenes, Total	0.375	0.328	0.310	87.5	82.7	72.0-127			5.64	20
(S) Toluene-d8				95.9	90.5	75.0-131				
(S) 4-Bromofluorobenzene				109	113	67.0-138				
(S) 1,2-Dichloroethane-d4				104	107	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

L1599426-12

Method Blank (MB)

(MB) R3909446-3 04/04/23 21:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	93.4			70.0-130

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3909446-1 04/04/23 20:13 • (LCSD) R3909446-2 04/04/23 20:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.125	0.133	100	106	70.0-123			6.20	20
Toluene	0.125	0.129	0.144	103	115	75.0-121			11.0	20
Ethylbenzene	0.125	0.131	0.143	105	114	74.0-126			8.76	20
Xylenes, Total	0.375	0.383	0.425	102	113	72.0-127			10.4	20
(S) Toluene-d8				104	104	75.0-131				
(S) 4-Bromofluorobenzene				106	105	67.0-138				
(S) 1,2-Dichloroethane-d4				105	105	70.0-130				

7
Gl

8
Al

9
Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

L1599426-13

Method Blank (MB)

(MB) R3909967-2 04/05/23 22:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	90.2			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3909967-1 04/05/23 20:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.143	114	70.0-123	
Toluene	0.125	0.137	110	75.0-121	
Ethylbenzene	0.125	0.138	110	74.0-126	
Xylenes, Total	0.375	0.403	107	72.0-127	
(S) Toluene-d8			101	75.0-131	
(S) 4-Bromofluorobenzene			107	67.0-138	
(S) 1,2-Dichloroethane-d4			108	70.0-130	

Method Blank (MB)

(MB) R3908143-1 03/31/23 15:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	86.0			18.0-148

1
Cp

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Tc

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Ss

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Cn

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Sr

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Sc

Laboratory Control Sample (LCS)

(LCS) R3908143-2 03/31/23 15:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	39.5	79.0	50.0-150	
(S) o-Terphenyl			88.7	18.0-148	

L1599454-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1599454-04 03/31/23 19:48 • (MS) R3908143-3 03/31/23 20:01 • (MSD) R3908143-4 03/31/23 20:14

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	47.4	25.9	57.6	61.6	66.9	74.4	5	50.0-150			6.71	20
(S) o-Terphenyl					81.3	73.0		18.0-148				

Semi-Volatile Organic Compounds (GC) by Method 8015M

[L1599426-03,04,05,06,07,08,09,10,11,12,13](#)

Method Blank (MB)

(MB) R3909129-1 04/03/23 15:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.372	⬇	0.274	4.00
(S) o-Terphenyl	67.9			18.0-148

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3909129-2 04/03/23 15:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	40.0	80.0	50.0-150	
(S) o-Terphenyl			76.1	18.0-148	

L1599426-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1599426-12 04/03/23 17:07 • (MS) R3909129-3 04/03/23 17:20 • (MSD) R3909129-4 04/03/23 17:32

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	63.7	U	43.8	48.9	68.7	75.6	1	50.0-150			11.0	20
(S) o-Terphenyl					60.2	66.6		18.0-148				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(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
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	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.

¹Cp

²Tc

³Ss

⁴Cn

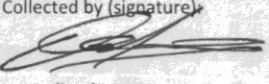
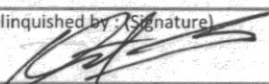
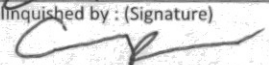
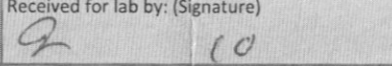
⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Company Name/Address: Arcadis - Chevron - NM		Billing Information: Accounts Payable 401 East Main Street Suite 400 El Paso, TX 79901		Pres Chk		Analysis / Container / Preservative		Chain of Custody Page <u>1</u> of <u>4</u>	
401 East Main Street Suite 400 El Paso, TX 79901		Email To: russell.grant@arcadis.com;sarah.johnson@arca						 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf	
Report to: Sarah Johnson		City/State Collected: LOVING, NM		Please Circle: PT <u>MT</u> CT ET					
Project Description: Pardue Farms 27-12		Client Project # 30093248.0003B		Lab Project # CHEVARCNM-PARDUE					
Phone: 432-227-0266		Site/Facility ID # PARDUE FARMS 27-12		P.O. #					
Collected by (print): Daniel McCreary		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #					
Collected by (signature): 		Date Results Needed Standard		No. of Cntrs					
Immediately Packed on Ice N ☐ Y ☒									
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time				
MW8-S-0-1-230327	G	SS	0-1	03/27/23	1511	1	X		-01
MW8-S-2-230327	G	SS	2	03/27/23	1513	1	X		-02
MW8-S-4-230327	G	SS	4	03/27/23	1515	1	X		-03
MW8-S-9-10-230327	G	SS	9-10	03/27/23	1517	1	X		-04
MW8-S-14-15-230327	G	SS	14-15	03/27/23	1518	1	X		-05
MW8-S-19-20-230327	G	SS	19-20	03/27/23	1519	1	X		-06
MW8-S-24-25-230327	G	SS	24-25	03/27/23	1523	1	X		-07
MW8-S-29-30-230327	G	SS	29-30	03/27/23	1525	1	X		-08
MW8-S-34-35-230327	G	SS	34-35	03/27/23	1530	1	X		-09
MW8-S-39-40-230327	G	SS	39-40	03/27/23	1531	1	X		-10
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks:TPH = GRO,DRONM		pH _____ Temp _____ Flow _____ Other _____					
Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking #							
Relinquished by: (Signature) 		Date: 3-27-23	Time: 2045	Received by: (Signature) 		Trip Blank Received: Yes / <u>No</u> HCL / MeOH TBR		Sample Receipt Checklist COC Seal Present/Intact: ☒ NP ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☒ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N	
Relinquished by: (Signature) 		Date: 3/28/23	Time: 1700	Received by: (Signature) SWA		Temp: 15.4°C Bottles Received: 13		If preservation required by Login: Date/Time	
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) 		Date: 3-29-23 Time: 8:00		Hold: Condition: NCF / OK	

Company Name/Address: Arcadis - Chevron - NM 401 East Main Street Suite 400 El Paso, TX 79901				Billing Information: Accounts Payable 401 East Main Street Suite 400 El Paso, TX 79901				Analysis / Container / Preservative Pres Cnk				Chain of Custody Page <u>2</u> of <u>4</u>  MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf			
Report to: Sarah Johnson				Email To: russell.grant@arcadis.com;sarah.johnson@arca				V8Z60BTEX,TPH,CI-300 4ozClr-NoPres							
Project Description: Pardue Farms 27-12		City/State Collected: Leaving, NM		Please Circle: ☒ MT ☐ CT ☐ ET											
Phone: 432-227-0266		Client Project # 30093248.0003B		Lab Project # CHEVARCNM-PARDUE											
Collected by (print): Daniel McBee		Site/Facility ID # PARDUE FARMS 27-12		P.O. #											
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote # standard		Date Results Needed standard		No. of Cntrs							
Immediately Packed on Ice N ☐ Y ☒		Sample ID		Comp/Grab		Matrix *		Depth		Date		Time			
MW-8-S-44-45-230323		G		SS		44-45		03/27/23		1553		1			
MW-8-S-49-50-230323		G		SS		49-50		03/27/23		1536		1			
MW-8-S-54-55-230323		G		SS		54-55		03/27/23		1559		1			
				SS				03/27/23				1			
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ANALYTICAL REPORT

April 10, 2023

Arcadis - Chevron - NM

Sample Delivery Group: L1600426
Samples Received: 03/31/2023
Project Number: 30155845.00003
Description: Pardue Farms 27-12
Site: PARDUE FARMS 27-12
Report To: Russell Grant
401 East Main Street
Suite 400
El Paso, TX 79901

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chris McCord".

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 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

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
IDW-S-230329 L1600426-01	5	
IDW-S-230329 L1600426-02	6	⁴ Cn
Qc: Quality Control Summary	7	⁵ Sr
Total Solids by Method 2540 G-2011	7	
Wet Chemistry by Method 9045D	8	⁶ Qc
Wet Chemistry by Method D93/1010A	9	
Mercury by Method 7470A	10	⁷ Gl
Metals (ICP) by Method 6010B	11	
Volatile Organic Compounds (GC) by Method 8015/8021	12	⁸ Al
Semi-Volatile Organic Compounds (GC) by Method 8015M	13	
Gl: Glossary of Terms	14	⁹ Sc
Al: Accreditations & Locations	15	
Sc: Sample Chain of Custody	16	

IDW-S-230329 L1600426-01 Solid

Collected by Sarah Nolen
Collected date/time 03/29/23 14:20
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2035963	1	04/05/23 08:00	04/05/23 08:07	CMK	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2034176	1	04/01/23 20:00	04/01/23 21:58	KAD	Mt. Juliet, TN
Wet Chemistry by Method D93/1010A	WG2035017	1	04/03/23 23:00	04/03/23 23:00	JAR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2036910	1	04/05/23 11:04	04/06/23 12:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 14:58	JDJ	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

IDW-S-230329 L1600426-02 Waste

Collected by Sarah Nolen
Collected date/time 03/29/23 14:20
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2035132	1	04/05/23 10:24	04/05/23 10:24	JTM	Mt. Juliet, TN
Mercury by Method 7470A	WG2037277	1	04/06/23 14:50	04/08/23 11:12	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2037613	1	04/07/23 09:46	04/07/23 15:45	KMG	Mt. Juliet, TN

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

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 03/29/23 14:20

L1600426

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.8		1	04/05/2023 08:07	WG2035963

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.61	T8	1	04/01/2023 21:58	WG2034176

Sample Narrative:

L1600426-01 WG2034176: 7.61 at 19.7C

Wet Chemistry by Method D93/1010A

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Ignitability	DNI at 200		1	04/03/2023 23:00	WG2035017

Volatile Organic Compounds (GC) by Method 8015/8021

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000627		0.000145	0.000604	1	04/06/2023 12:53	WG2036910
Toluene	0.000884	B J	0.000181	0.00604	1	04/06/2023 12:53	WG2036910
Ethylbenzene	0.000277	J	0.000133	0.000604	1	04/06/2023 12:53	WG2036910
Total Xylene	U		0.000556	0.00181	1	04/06/2023 12:53	WG2036910
TPH (GC/FID) Low Fraction	0.0326	B J	0.0262	0.121	1	04/06/2023 12:53	WG2036910
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		04/06/2023 12:53	WG2036910
(S) a,a,a-Trifluorotoluene(PID)	101			72.0-128		04/06/2023 12:53	WG2036910

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.54	J J3 J6	1.94	4.83	1	04/05/2023 14:58	WG2035899
C28-C36 Motor Oil Range	4.86		0.331	4.83	1	04/05/2023 14:58	WG2035899
(S) o-Terphenyl	55.7			18.0-148		04/05/2023 14:58	WG2035899

Collected date/time: 03/29/23 14:20

L1600426

Preparation by Method 1311

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		4/5/2023 10:24:58 AM	WG2035132
Fluid	2		4/5/2023 10:24:58 AM	WG2035132
Initial pH	8.87		4/5/2023 10:24:58 AM	WG2035132
Final pH	5.02		4/5/2023 10:24:58 AM	WG2035132

Mercury by Method 7470A

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.0100	0.20	1	04/08/2023 11:12	WG2037277

Metals (ICP) by Method 6010B

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Arsenic	ND		0.100	5	1	04/07/2023 15:45	WG2037613
Barium	0.495		0.100	100	1	04/07/2023 15:45	WG2037613
Cadmium	ND		0.100	1	1	04/07/2023 15:45	WG2037613
Chromium	ND		0.100	5	1	04/07/2023 15:45	WG2037613
Lead	ND		0.100	5	1	04/07/2023 15:45	WG2037613
Selenium	ND		0.100	1	1	04/07/2023 15:45	WG2037613
Silver	ND		0.100	5	1	04/07/2023 15:45	WG2037613

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011 [L1600426-01](#)

Method Blank (MB)

(MB) R3909909-1 04/05/23 08:07

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1601280-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1601280-01 04/05/23 08:07 • (DUP) R3909909-3 04/05/23 08:07

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	75.0	75.6	1	0.841		10

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3909909-2 04/05/23 08:07

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁹Sc

L1600398-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1600398-01 04/01/23 21:58 • (DUP) R3908245-2 04/01/23 21:58

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.59	7.62	1	0.394		1

Sample Narrative:
OS: 7.59 at 20.4C
DUP: 7.62 at 19.5C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1600413-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1600413-14 04/01/23 21:58 • (DUP) R3908245-3 04/01/23 21:58

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.75	7.74	1	0.129		1

Sample Narrative:
OS: 7.75 at 19.4C
DUP: 7.74 at 20C

Laboratory Control Sample (LCS)

(LCS) R3908245-1 04/01/23 21:58

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	9.98	99.8	99.0-101	

Sample Narrative:
LCS: 9.98 at 19.4C

L1600940-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1600940-01 04/03/23 23:00 • (DUP) R3908902-3 04/03/23 23:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	Deg. F	Deg. F		%		%
Ignitability	109	113	1	3.61		10

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3908902-1 04/03/23 23:00 • (LCSD) R3908902-2 04/03/23 23:00

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD	RPD Limits
Analyte	Deg. F	Deg. F	Deg. F	%	%	%			%	%
Ignitability	126	127	131	101	104	95.6-104			3.10	10

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Mercury by Method 7470A [L1600426-02](#)

Method Blank (MB)

(MB) R3910989-1 04/08/23 11:08

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.00330	0.0100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R3910989-2 04/08/23 11:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Mercury	0.0300	0.0267	89.0	80.0-120	

⁷Gl

⁸Al

⁹Sc

L1600426-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600426-02 04/08/23 11:12 • (MS) R3910989-3 04/08/23 11:14 • (MSD) R3910989-4 04/08/23 11:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Mercury	0.0300	ND	0.0288	0.0304	96.0	101	1	75.0-125			5.41	20

Metals (ICP) by Method 6010B [L1600426-02](#)

Method Blank (MB)

(MB) R3910776-1 04/07/23 15:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	0.0348	⌵	0.0330	0.100
Barium	U		0.0330	0.100
Cadmium	U		0.0330	0.100
Chromium	U		0.0330	0.100
Lead	U		0.0330	0.100
Selenium	U		0.0330	0.100
Silver	U		0.0330	0.100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3910776-2 04/07/23 15:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	10.0	9.71	97.1	80.0-120	
Barium	10.0	10.5	105	80.0-120	
Cadmium	10.0	9.85	98.5	80.0-120	
Chromium	10.0	9.56	95.6	80.0-120	
Lead	10.0	9.84	98.4	80.0-120	
Selenium	10.0	10.2	102	80.0-120	
Silver	2.00	1.92	95.8	80.0-120	

L1600980-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600980-02 04/07/23 15:34 • (MS) R3910776-4 04/07/23 15:40 • (MSD) R3910776-5 04/07/23 15:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	10.0	ND	9.74	9.73	97.4	97.3	1	75.0-125			0.134	20
Barium	10.0	1.94	12.4	12.4	105	104	1	75.0-125			0.0862	20
Cadmium	10.0	ND	10.0	9.99	100	99.9	1	75.0-125			0.237	20
Chromium	10.0	ND	9.39	9.35	93.5	93.1	1	75.0-125			0.394	20
Lead	10.0	0.227	10.0	9.98	97.8	97.5	1	75.0-125			0.228	20
Selenium	10.0	ND	10.3	10.2	102	102	1	75.0-125			0.292	20
Silver	2.00	ND	1.98	1.97	98.9	98.6	1	75.0-125			0.342	20

Volatile Organic Compounds (GC) by Method 8015/8021

L1600426-01

Method Blank (MB)

(MB) R3910605-3 04/06/23 10:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000120	0.000500
Toluene	0.000226	U	0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0255	U	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120
(S) a,a,a-Trifluorotoluene(PID)	103			72.0-128

Laboratory Control Sample (LCS)

(LCS) R3910605-1 04/06/23 09:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0523	105	76.0-121	
Toluene	0.0500	0.0501	100	80.0-120	
Ethylbenzene	0.0500	0.0537	107	80.0-124	
Total Xylene	0.150	0.155	103	37.0-160	
(S) a,a,a-Trifluorotoluene(FID)			99.7	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)			102	72.0-128	

Laboratory Control Sample (LCS)

(LCS) R3910605-2 04/06/23 09:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.77	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			103	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)			109	72.0-128	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

L1600426-01

Method Blank (MB)

(MB) R3909623-1 04/05/23 11:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	73.7			18.0-148

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Laboratory Control Sample (LCS)

(LCS) R3909623-2 04/05/23 11:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	35.6	71.2	50.0-150	
(S) o-Terphenyl			88.0	18.0-148	

L1600426-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600426-01 04/05/23 14:58 • (MS) R3909623-3 04/05/23 15:11 • (MSD) R3909623-4 04/05/23 15:25

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	59.1	2.54	41.9	31.0	66.7	48.9	1	50.0-150		J3 J6	29.8	20
(S) o-Terphenyl					80.7	64.8		18.0-148				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	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
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	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.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

[illegible]



ANALYTICAL REPORT

April 25, 2023

Revised Report

Arcadis - Chevron - NM

Sample Delivery Group: L1600429
Samples Received: 03/31/2023
Project Number: 30155845.00003
Description: Pardue Farms 27-12
Site: PARDUE FARMS 27-12
Report To: Russell Grant
401 East Main Street
Suite 400
El Paso, TX 79901

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Entire Report Reviewed By:

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 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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	4
Cn: Case Narrative	10
Sr: Sample Results	11
MW-7-S-0-1-230328 L1600429-01	11
MW-7-S-2-230328 L1600429-02	12
MW-7-S-3-4-230328 L1600429-03	13
MW-7-S-9-10-230328 L1600429-04	14
MW-7-S-14-15-230328 L1600429-05	15
MW-7-S-19-20-1-230328 L1600429-06	16
MW-7-S-24-25-0-1-230328 L1600429-07	17
MW-7-S-29-30-1-230328 L1600429-08	18
MW-7-S-34-35-230328 L1600429-09	19
MW-7-S-39-40-230328 L1600429-10	20
SB-27-S-44-45-230328 L1600429-11	21
SB-27-S-49-50-230328 L1600429-12	22
SB-27-S-53-54-230328 L1600429-13	23
SB-27-S-0-1-230328 L1600429-14	24
SB-27-S-2-230328 L1600429-15	25
SB-27-S-4-230328 L1600429-16	26
SB-27-S-9-10-230328 L1600429-17	27
SB-27-S-14-15-230328 L1600429-18	28
SB-27-S-19-20-230328 L1600429-19	29
SB-27-S-23-24-230328 L1600429-20	30
SB-28-S-0-1-230328 L1600429-21	31
SB-28-S-2-230328 L1600429-22	32
SB-28-S-4-230328 L1600429-23	33
SB-28-S-9-10-230328 L1600429-24	34
SB-28-S-14-15-230328 L1600429-25	35
SB-28-S-19-20-230328 L1600429-26	36
SB-28-S-23-24-230328 L1600429-27	37
Qc: Quality Control Summary	38
Total Solids by Method 2540 G-2011	38
Wet Chemistry by Method 300.0	41
Volatile Organic Compounds (GC) by Method 8015D/GRO	43
Volatile Organic Compounds (GC/MS) by Method 8260B	45
Semi-Volatile Organic Compounds (GC) by Method 8015M	47
Gl: Glossary of Terms	50
Al: Accreditations & Locations	51

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Sc: Sample Chain of Custody

52

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Sr
- ⁶Qc
- ⁷Gl
- ⁸Al
- ⁹Sc

MW-7-S-0-1-230328 L1600429-01 Solid

Collected by Sarah N
Collected date/time 03/28/23 10:40
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034624	1	04/03/23 13:50	04/03/23 13:58	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1.04	04/04/23 01:00	04/04/23 02:53	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 01:48	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 11:43	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 14:19	TJD	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

MW-7-S-2-230328 L1600429-02 Solid

Collected by Sarah N
Collected date/time 03/28/23 10:41
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034624	1	04/03/23 13:50	04/03/23 13:58	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1.01	04/04/23 01:00	04/04/23 03:02	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 02:09	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 12:04	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 14:32	TJD	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

9Sc

MW-7-S-3-4-230328 L1600429-03 Solid

Collected by Sarah N
Collected date/time 03/28/23 10:42
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034624	1	04/03/23 13:50	04/03/23 13:58	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1.03	04/04/23 01:00	04/04/23 03:12	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 02:29	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 12:26	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 14:45	TJD	Mt. Juliet, TN

MW-7-S-9-10-230328 L1600429-04 Solid

Collected by Sarah N
Collected date/time 03/28/23 10:45
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034624	1	04/03/23 13:50	04/03/23 13:58	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1	04/04/23 01:00	04/04/23 03:50	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 02:50	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 12:49	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 15:38	TJD	Mt. Juliet, TN

MW-7-S-14-15-230328 L1600429-05 Solid

Collected by Sarah N
Collected date/time 03/28/23 10:46
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034624	1	04/03/23 13:50	04/03/23 13:58	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1	04/04/23 01:00	04/04/23 04:19	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 03:10	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 13:10	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 15:50	TJD	Mt. Juliet, TN

MW-7-S-19-20-1-230328 L1600429-06 Solid

Collected by Sarah N
Collected date/time 03/28/23 10:48
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034624	1	04/03/23 13:50	04/03/23 13:58	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1	04/04/23 01:00	04/04/23 04:28	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 03:31	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 13:32	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 16:04	TJD	Mt. Juliet, TN

1

Cp

2

Tc

3

Ss

4

Cn

MW-7-S-24-25-0-1-230328 L1600429-07 Solid

Collected by Sarah N
Collected date/time 03/28/23 10:52
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034624	1	04/03/23 13:50	04/03/23 13:58	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1.01	04/04/23 01:00	04/04/23 04:38	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 03:51	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 13:54	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 16:17	TJD	Mt. Juliet, TN

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

MW-7-S-29-30-1-230328 L1600429-08 Solid

Collected by Sarah N
Collected date/time 03/28/23 10:56
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034624	1	04/03/23 13:50	04/03/23 13:58	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1	04/04/23 01:00	04/04/23 04:47	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 04:12	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 14:15	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 16:30	TJD	Mt. Juliet, TN

MW-7-S-34-35-230328 L1600429-09 Solid

Collected by Sarah N
Collected date/time 03/28/23 10:58
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034624	1	04/03/23 13:50	04/03/23 13:58	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1	04/04/23 01:00	04/04/23 04:57	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 04:32	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 14:37	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 16:43	TJD	Mt. Juliet, TN

MW-7-S-39-40-230328 L1600429-10 Solid

Collected by Sarah N
Collected date/time 03/28/23 11:01
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034635	1	04/04/23 06:52	04/04/23 06:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1	04/04/23 01:00	04/04/23 05:06	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 04:53	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 14:59	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 16:56	TJD	Mt. Juliet, TN

SB-27-S-44-45-230328 L1600429-11 Solid

Collected by Sarah N
Collected date/time 03/28/23 11:05
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034635	1	04/04/23 06:52	04/04/23 06:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1.02	04/04/23 01:00	04/04/23 05:16	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 05:13	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 15:20	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 17:09	TJD	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

SB-27-S-49-50-230328 L1600429-12 Solid

Collected by Sarah N
Collected date/time 03/28/23 11:08
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034635	1	04/04/23 06:52	04/04/23 06:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1	04/04/23 01:00	04/04/23 05:26	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 05:33	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 15:42	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 17:22	TJD	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

SB-27-S-53-54-230328 L1600429-13 Solid

Collected by Sarah N
Collected date/time 03/28/23 11:11
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034635	1	04/04/23 06:52	04/04/23 06:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1.03	04/04/23 01:00	04/04/23 05:35	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 05:54	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 16:03	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 17:35	TJD	Mt. Juliet, TN

9Sc

SB-27-S-0-1-230328 L1600429-14 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:23
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034635	1	04/04/23 06:52	04/04/23 06:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1	04/04/23 01:00	04/04/23 05:45	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 06:14	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036210	1	04/04/23 17:33	04/05/23 16:25	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035899	1	04/05/23 06:06	04/05/23 17:48	TJD	Mt. Juliet, TN

SB-27-S-2-230328 L1600429-15 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:24
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034635	1	04/04/23 06:52	04/04/23 06:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	1.03	04/04/23 01:00	04/04/23 06:13	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 06:35	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 12:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036127	1	04/05/23 16:33	04/06/23 07:41	KAP	Mt. Juliet, TN

SB-27-S-4-230328 L1600429-16 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:25
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034635	1	04/04/23 06:52	04/04/23 06:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	5.05	04/04/23 01:00	04/04/23 06:23	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2036554	1	04/04/23 17:33	04/06/23 06:55	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 12:35	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036127	1	04/05/23 16:33	04/06/23 07:54	KAP	Mt. Juliet, TN

1

Cp

2

Tc

3

Ss

4

Cn

SB-27-S-9-10-230328 L1600429-17 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:27
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034635	1	04/04/23 06:52	04/04/23 06:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	5.05	04/04/23 01:00	04/04/23 06:32	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 17:33	04/06/23 11:35	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 12:55	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036127	1	04/05/23 16:33	04/06/23 08:07	KAP	Mt. Juliet, TN

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

SB-27-S-14-15-230328 L1600429-18 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:28
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034635	1	04/04/23 06:52	04/04/23 06:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	5	04/04/23 01:00	04/04/23 06:52	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 17:33	04/06/23 11:55	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 13:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036127	1	04/05/23 16:33	04/06/23 08:20	KAP	Mt. Juliet, TN

SB-27-S-19-20-230328 L1600429-19 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:29
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034635	1	04/04/23 06:52	04/04/23 06:59	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	5	04/04/23 01:00	04/04/23 07:01	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 17:33	04/06/23 12:16	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 13:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036127	1	04/05/23 16:33	04/06/23 08:39	KAP	Mt. Juliet, TN

SB-27-S-23-24-230328 L1600429-20 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:30
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034636	1	04/04/23 06:42	04/04/23 06:49	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035060	5	04/04/23 01:00	04/04/23 07:11	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 17:33	04/06/23 12:36	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 13:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036127	1	04/05/23 16:33	04/06/23 08:52	KAP	Mt. Juliet, TN

SB-28-S-0-1-230328 L1600429-21 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:43
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034636	1	04/04/23 06:42	04/04/23 06:49	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2036612	1.03	04/06/23 01:30	04/06/23 06:30	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 17:33	04/06/23 12:57	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 14:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 22:35	JAS	Mt. Juliet, TN

1

Cp

2

Tc

3

Ss

4

Cn

SB-28-S-2-230328 L1600429-22 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:44
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034636	1	04/04/23 06:42	04/04/23 06:49	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2036612	1.04	04/06/23 01:30	04/06/23 06:46	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 17:33	04/06/23 13:17	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 14:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 22:48	JAS	Mt. Juliet, TN

5

Sr

6

Qc

7

Gl

8

Al

SB-28-S-4-230328 L1600429-23 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:46
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034636	1	04/04/23 06:42	04/04/23 06:49	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2036612	5	04/06/23 01:30	04/06/23 07:02	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 17:33	04/06/23 13:38	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 14:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 17:47	JAS	Mt. Juliet, TN

9

Sc

SB-28-S-9-10-230328 L1600429-24 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:48
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034636	1	04/04/23 06:42	04/04/23 06:49	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2036612	1.01	04/06/23 01:30	04/06/23 07:18	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 17:33	04/06/23 13:58	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 15:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 17:34	JAS	Mt. Juliet, TN

SB-28-S-14-15-230328 L1600429-25 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:50
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034636	1	04/04/23 06:42	04/04/23 06:49	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2036612	5	04/06/23 01:30	04/06/23 07:34	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 17:33	04/06/23 14:19	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 15:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 18:00	JAS	Mt. Juliet, TN

SAMPLE SUMMARY

SB-28-S-19-20-230328 L1600429-26 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:51
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034636	1	04/04/23 06:42	04/04/23 06:49	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2036612	1	04/06/23 01:30	04/06/23 07:50	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 17:33	04/06/23 14:39	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 15:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 18:13	JAS	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

SB-28-S-23-24-230328 L1600429-27 Solid

Collected by Sarah N
Collected date/time 03/28/23 13:52
Received date/time 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2034636	1	04/04/23 06:42	04/04/23 06:49	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2036612	1.02	04/06/23 01:30	04/06/23 08:06	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2037033	1	04/04/23 17:33	04/06/23 15:00	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2036251	1	04/04/23 17:33	04/05/23 16:04	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2036128	1	04/06/23 06:16	04/06/23 18:27	JAS	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

9Sc

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Report Revision History

Level II Report - Version 1: 04/10/23 17:59

Project Narrative

4/24/23: Revised sample IDs.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	04/03/2023 13:58	WG2034624

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.6	23.1	1.04	04/04/2023 02:53	WG2035060

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0258	<u>J</u>	0.0241	0.111	1	04/06/2023 01:48	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	93.9			77.0-120		04/06/2023 01:48	WG2036554

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000569	0.00122	1	04/05/2023 11:43	WG2036210
Toluene	U		0.00158	0.00609	1	04/05/2023 11:43	WG2036210
Ethylbenzene	U		0.000898	0.00304	1	04/05/2023 11:43	WG2036210
Total Xylenes	U		0.00107	0.00792	1	04/05/2023 11:43	WG2036210
(S) Toluene-d8	92.7			75.0-131		04/05/2023 11:43	WG2036210
(S) 4-Bromofluorobenzene	107			67.0-138		04/05/2023 11:43	WG2036210
(S) 1,2-Dichloroethane-d4	95.9			70.0-130		04/05/2023 11:43	WG2036210

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.43	1	04/05/2023 14:19	WG2035899
C28-C36 Motor Oil Range	0.307	<u>J</u>	0.304	4.43	1	04/05/2023 14:19	WG2035899
(S) o-Terphenyl	47.8			18.0-148		04/05/2023 14:19	WG2035899

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.6		1	04/03/2023 13:58	WG2034624

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		11.0	23.9	1.01	04/04/2023 03:02	WG2035060

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0257	0.118	1	04/06/2023 02:09	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120		04/06/2023 02:09	WG2036554

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.00116	J	0.000638	0.00137	1	04/05/2023 12:04	WG2036210
Toluene	0.00701		0.00178	0.00683	1	04/05/2023 12:04	WG2036210
Ethylbenzene	0.00113	J	0.00101	0.00341	1	04/05/2023 12:04	WG2036210
Total Xylenes	0.00507	J	0.00120	0.00888	1	04/05/2023 12:04	WG2036210
(S) Toluene-d8	93.3			75.0-131		04/05/2023 12:04	WG2036210
(S) 4-Bromofluorobenzene	106			67.0-138		04/05/2023 12:04	WG2036210
(S) 1,2-Dichloroethane-d4	93.8			70.0-130		04/05/2023 12:04	WG2036210

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.90	4.73	1	04/05/2023 14:32	WG2035899
C28-C36 Motor Oil Range	0.960	J	0.324	4.73	1	04/05/2023 14:32	WG2035899
(S) o-Terphenyl	50.8			18.0-148		04/05/2023 14:32	WG2035899

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.0		1	04/03/2023 13:58	WG2034624

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	76.3		11.3	24.5	1.03	04/04/2023 03:12	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0258	0.119	1	04/06/2023 02:29	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	96.1			77.0-120		04/06/2023 02:29	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000645	0.00138	1	04/05/2023 12:26	WG2036210
Toluene	U		0.00180	0.00691	1	04/05/2023 12:26	WG2036210
Ethylbenzene	U		0.00102	0.00345	1	04/05/2023 12:26	WG2036210
Total Xylenes	U		0.00122	0.00898	1	04/05/2023 12:26	WG2036210
(S) Toluene-d8	94.6			75.0-131		04/05/2023 12:26	WG2036210
(S) 4-Bromofluorobenzene	104			67.0-138		04/05/2023 12:26	WG2036210
(S) 1,2-Dichloroethane-d4	91.7			70.0-130		04/05/2023 12:26	WG2036210

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.92	4.76	1	04/05/2023 14:45	WG2035899
C28-C36 Motor Oil Range	U		0.326	4.76	1	04/05/2023 14:45	WG2035899
(S) o-Terphenyl	50.2			18.0-148		04/05/2023 14:45	WG2035899

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.7		1	04/03/2023 13:58	WG2034624

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	75.8		9.51	20.7	1	04/04/2023 03:50	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	04/06/2023 02:50	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	95.1			77.0-120		04/06/2023 02:50	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000499	0.00107	1	04/05/2023 12:49	WG2036210
Toluene	U		0.00139	0.00534	1	04/05/2023 12:49	WG2036210
Ethylbenzene	U		0.000787	0.00267	1	04/05/2023 12:49	WG2036210
Total Xylenes	U		0.000940	0.00694	1	04/05/2023 12:49	WG2036210
(S) Toluene-d8	90.9			75.0-131		04/05/2023 12:49	WG2036210
(S) 4-Bromofluorobenzene	108			67.0-138		04/05/2023 12:49	WG2036210
(S) 1,2-Dichloroethane-d4	95.5			70.0-130		04/05/2023 12:49	WG2036210

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.14	1	04/05/2023 15:38	WG2035899
C28-C36 Motor Oil Range	U		0.283	4.14	1	04/05/2023 15:38	WG2035899
(S) o-Terphenyl	74.8			18.0-148		04/05/2023 15:38	WG2035899

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.0		1	04/03/2023 13:58	WG2034624

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	22.6	J	10.7	23.3	1	04/04/2023 04:19	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0252	0.116	1	04/06/2023 03:10	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		04/06/2023 03:10	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000619	0.00133	1	04/05/2023 13:10	WG2036210
Toluene	U		0.00172	0.00663	1	04/05/2023 13:10	WG2036210
Ethylbenzene	U		0.000977	0.00332	1	04/05/2023 13:10	WG2036210
Total Xylenes	U		0.00117	0.00862	1	04/05/2023 13:10	WG2036210
(S) Toluene-d8	92.4			75.0-131		04/05/2023 13:10	WG2036210
(S) 4-Bromofluorobenzene	106			67.0-138		04/05/2023 13:10	WG2036210
(S) 1,2-Dichloroethane-d4	90.9			70.0-130		04/05/2023 13:10	WG2036210

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.87	4.65	1	04/05/2023 15:50	WG2035899
C28-C36 Motor Oil Range	U		0.319	4.65	1	04/05/2023 15:50	WG2035899
(S) o-Terphenyl	56.9			18.0-148		04/05/2023 15:50	WG2035899

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.5		1	04/03/2023 13:58	WG2034624

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	26.2		10.3	22.3	1	04/04/2023 04:28	WG2035060

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0242	0.112	1	04/06/2023 03:31	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	95.1			77.0-120		04/06/2023 03:31	WG2036554

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000577	0.00124	1	04/05/2023 13:32	WG2036210
Toluene	U		0.00161	0.00618	1	04/05/2023 13:32	WG2036210
Ethylbenzene	U		0.000910	0.00309	1	04/05/2023 13:32	WG2036210
Total Xylenes	U		0.00109	0.00803	1	04/05/2023 13:32	WG2036210
(S) Toluene-d8	94.5			75.0-131		04/05/2023 13:32	WG2036210
(S) 4-Bromofluorobenzene	106			67.0-138		04/05/2023 13:32	WG2036210
(S) 1,2-Dichloroethane-d4	89.3			70.0-130		04/05/2023 13:32	WG2036210

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.80	4.47	1	04/05/2023 16:04	WG2035899
C28-C36 Motor Oil Range	U		0.306	4.47	1	04/05/2023 16:04	WG2035899
(S) o-Terphenyl	74.1			18.0-148		04/05/2023 16:04	WG2035899

Collected date/time: 03/28/23 10:52

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.7		1	04/03/2023 13:58	WG2034624

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	22.0	J	10.2	22.3	1.01	04/04/2023 04:38	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0239	0.110	1	04/06/2023 03:51	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		04/06/2023 03:51	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000564	0.00121	1	04/05/2023 13:54	WG2036210
Toluene	U		0.00157	0.00603	1	04/05/2023 13:54	WG2036210
Ethylbenzene	U		0.000890	0.00302	1	04/05/2023 13:54	WG2036210
Total Xylenes	U		0.00106	0.00785	1	04/05/2023 13:54	WG2036210
(S) Toluene-d8	95.0			75.0-131		04/05/2023 13:54	WG2036210
(S) 4-Bromofluorobenzene	108			67.0-138		04/05/2023 13:54	WG2036210
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		04/05/2023 13:54	WG2036210

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.78	4.41	1	04/05/2023 16:17	WG2035899
C28-C36 Motor Oil Range	U		0.302	4.41	1	04/05/2023 16:17	WG2035899
(S) o-Terphenyl	66.1			18.0-148		04/05/2023 16:17	WG2035899

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	87.5		1	04/03/2023 13:58	WG2034624

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	37.6		10.5	22.9	1	04/04/2023 04:47	WG2035060

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0248	0.114	1	04/06/2023 04:12	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		04/06/2023 04:12	WG2036554

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000601	0.00129	1	04/05/2023 14:15	WG2036210
Toluene	U		0.00167	0.00644	1	04/05/2023 14:15	WG2036210
Ethylbenzene	U		0.000949	0.00322	1	04/05/2023 14:15	WG2036210
Total Xylenes	U		0.00113	0.00837	1	04/05/2023 14:15	WG2036210
(S) Toluene-d8	91.1			75.0-131		04/05/2023 14:15	WG2036210
(S) 4-Bromofluorobenzene	105			67.0-138		04/05/2023 14:15	WG2036210
(S) 1,2-Dichloroethane-d4	84.9			70.0-130		04/05/2023 14:15	WG2036210

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.84	4.57	1	04/05/2023 16:30	WG2035899
C28-C36 Motor Oil Range	1.91	J	0.313	4.57	1	04/05/2023 16:30	WG2035899
(S) o-Terphenyl	58.6			18.0-148		04/05/2023 16:30	WG2035899

Collected date/time: 03/28/23 10:58

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	80.1		1	04/03/2023 13:58	WG2034624

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	265		11.5	25.0	1	04/04/2023 04:57	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0271	0.125	1	04/06/2023 04:32	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120		04/06/2023 04:32	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000700	0.00150	1	04/05/2023 14:37	WG2036210
Toluene	U		0.00195	0.00750	1	04/05/2023 14:37	WG2036210
Ethylbenzene	U		0.00111	0.00375	1	04/05/2023 14:37	WG2036210
Total Xylenes	U		0.00132	0.00975	1	04/05/2023 14:37	WG2036210
(S) Toluene-d8	92.5			75.0-131		04/05/2023 14:37	WG2036210
(S) 4-Bromofluorobenzene	104			67.0-138		04/05/2023 14:37	WG2036210
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		04/05/2023 14:37	WG2036210

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		2.01	5.00	1	04/05/2023 16:43	WG2035899
C28-C36 Motor Oil Range	U		0.342	5.00	1	04/05/2023 16:43	WG2035899
(S) o-Terphenyl	61.6			18.0-148		04/05/2023 16:43	WG2035899

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.5		1	04/04/2023 06:59	WG2034635

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	224		12.2	26.5	1	04/04/2023 05:06	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0287	0.132	1	04/06/2023 04:53	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		04/06/2023 04:53	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000771	0.00165	1	04/05/2023 14:59	WG2036210
Toluene	U		0.00215	0.00825	1	04/05/2023 14:59	WG2036210
Ethylbenzene	U		0.00122	0.00413	1	04/05/2023 14:59	WG2036210
Total Xylenes	U		0.00145	0.0107	1	04/05/2023 14:59	WG2036210
(S) Toluene-d8	95.0			75.0-131		04/05/2023 14:59	WG2036210
(S) 4-Bromofluorobenzene	108			67.0-138		04/05/2023 14:59	WG2036210
(S) 1,2-Dichloroethane-d4	88.4			70.0-130		04/05/2023 14:59	WG2036210

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		2.13	5.30	1	04/05/2023 16:56	WG2035899
C28-C36 Motor Oil Range	U		0.363	5.30	1	04/05/2023 16:56	WG2035899
(S) o-Terphenyl	55.3			18.0-148		04/05/2023 16:56	WG2035899

Collected date/time: 03/28/23 11:05

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.3		1	04/04/2023 06:59	WG2034635

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	396		12.3	26.7	1.02	04/04/2023 05:16	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0284	0.131	1	04/06/2023 05:13	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		04/06/2023 05:13	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000758	0.00162	1	04/05/2023 15:20	WG2036210
Toluene	U		0.00211	0.00811	1	04/05/2023 15:20	WG2036210
Ethylbenzene	U		0.00120	0.00406	1	04/05/2023 15:20	WG2036210
Total Xylenes	U		0.00143	0.0105	1	04/05/2023 15:20	WG2036210
(S) Toluene-d8	92.6			75.0-131		04/05/2023 15:20	WG2036210
(S) 4-Bromofluorobenzene	106			67.0-138		04/05/2023 15:20	WG2036210
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		04/05/2023 15:20	WG2036210

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		2.11	5.24	1	04/05/2023 17:09	WG2035899
C28-C36 Motor Oil Range	U		0.359	5.24	1	04/05/2023 17:09	WG2035899
(S) o-Terphenyl	59.5			18.0-148		04/05/2023 17:09	WG2035899

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/28/23 11:08

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.6		1	04/04/2023 06:59	WG2034635

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	396		11.3	24.5	1	04/04/2023 05:26	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0266	0.123	1	04/06/2023 05:33	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	95.7			77.0-120		04/06/2023 05:33	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000678	0.00145	1	04/05/2023 15:42	WG2036210
Toluene	U		0.00189	0.00726	1	04/05/2023 15:42	WG2036210
Ethylbenzene	U		0.00107	0.00363	1	04/05/2023 15:42	WG2036210
Total Xylenes	U		0.00128	0.00944	1	04/05/2023 15:42	WG2036210
(S) Toluene-d8	94.1			75.0-131		04/05/2023 15:42	WG2036210
(S) 4-Bromofluorobenzene	107			67.0-138		04/05/2023 15:42	WG2036210
(S) 1,2-Dichloroethane-d4	90.3			70.0-130		04/05/2023 15:42	WG2036210

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.97	4.90	1	04/05/2023 17:22	WG2035899
C28-C36 Motor Oil Range	U		0.336	4.90	1	04/05/2023 17:22	WG2035899
(S) o-Terphenyl	58.8			18.0-148		04/05/2023 17:22	WG2035899

Collected date/time: 03/28/23 11:11

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.8		1	04/04/2023 06:59	WG2034635

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	299		11.5	24.9	1.03	04/04/2023 05:35	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0262	0.121	1	04/06/2023 05:54	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		04/06/2023 05:54	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000662	0.00142	1	04/05/2023 16:03	WG2036210
Toluene	U		0.00184	0.00709	1	04/05/2023 16:03	WG2036210
Ethylbenzene	U		0.00105	0.00355	1	04/05/2023 16:03	WG2036210
Total Xylenes	U		0.00125	0.00922	1	04/05/2023 16:03	WG2036210
(S) Toluene-d8	93.9			75.0-131		04/05/2023 16:03	WG2036210
(S) 4-Bromofluorobenzene	107			67.0-138		04/05/2023 16:03	WG2036210
(S) 1,2-Dichloroethane-d4	91.1			70.0-130		04/05/2023 16:03	WG2036210

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.95	4.83	1	04/05/2023 17:35	WG2035899
C28-C36 Motor Oil Range	U		0.331	4.83	1	04/05/2023 17:35	WG2035899
(S) o-Terphenyl	54.4			18.0-148		04/05/2023 17:35	WG2035899

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.7		1	04/04/2023 06:59	WG2034635

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	850		9.92	21.6	1	04/04/2023 05:45	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	04/06/2023 06:14	WG2036554
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		04/06/2023 06:14	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000540	0.00116	1	04/05/2023 16:25	WG2036210
Toluene	U		0.00150	0.00579	1	04/05/2023 16:25	WG2036210
Ethylbenzene	U		0.000853	0.00289	1	04/05/2023 16:25	WG2036210
Total Xylenes	U		0.00102	0.00752	1	04/05/2023 16:25	WG2036210
(S) Toluene-d8	92.6			75.0-131		04/05/2023 16:25	WG2036210
(S) 4-Bromofluorobenzene	105			67.0-138		04/05/2023 16:25	WG2036210
(S) 1,2-Dichloroethane-d4	90.6			70.0-130		04/05/2023 16:25	WG2036210

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.74	4.31	1	04/05/2023 17:48	WG2035899
C28-C36 Motor Oil Range	7.02		0.296	4.31	1	04/05/2023 17:48	WG2035899
(S) o-Terphenyl	62.4			18.0-148		04/05/2023 17:48	WG2035899

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/28/23 13:24

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.3		1	04/04/2023 06:59	WG2034635

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	370		10.4	22.6	1.03	04/04/2023 06:13	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0238	0.110	1	04/06/2023 06:35	WG2036554
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.8			77.0-120		04/06/2023 06:35	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.000745	J	0.000556	0.00119	1	04/05/2023 12:16	WG2036251
Toluene	U		0.00155	0.00596	1	04/05/2023 12:16	WG2036251
Ethylbenzene	0.00123	J	0.000878	0.00298	1	04/05/2023 12:16	WG2036251
Total Xylenes	U		0.00105	0.00774	1	04/05/2023 12:16	WG2036251
(S) <i>Toluene-d8</i>	76.7			75.0-131		04/05/2023 12:16	WG2036251
(S) <i>4-Bromofluorobenzene</i>	74.1			67.0-138		04/05/2023 12:16	WG2036251
(S) <i>1,2-Dichloroethane-d4</i>	108			70.0-130		04/05/2023 12:16	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	26.2		1.76	4.38	1	04/06/2023 07:41	WG2036127
C28-C36 Motor Oil Range	2.20	B J	0.300	4.38	1	04/06/2023 07:41	WG2036127
(S) <i>o</i> -Terphenyl	56.1			18.0-148		04/06/2023 07:41	WG2036127

Collected date/time: 03/28/23 13:25

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.6		1	04/04/2023 06:59	WG2034635

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1940		49.2	107	5.05	04/04/2023 06:23	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.106	1	04/06/2023 06:55	WG2036554
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.4			77.0-120		04/06/2023 06:55	WG2036554

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U	J3	0.000520	0.00111	1	04/05/2023 12:35	WG2036251
Toluene	U		0.00145	0.00557	1	04/05/2023 12:35	WG2036251
Ethylbenzene	U	J3	0.000821	0.00279	1	04/05/2023 12:35	WG2036251
Total Xylenes	U	J3	0.000981	0.00724	1	04/05/2023 12:35	WG2036251
(S) Toluene-d8	102			75.0-131		04/05/2023 12:35	WG2036251
(S) 4-Bromofluorobenzene	94.4			67.0-138		04/05/2023 12:35	WG2036251
(S) 1,2-Dichloroethane-d4	111			70.0-130		04/05/2023 12:35	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.70	4.23	1	04/06/2023 07:54	WG2036127
C28-C36 Motor Oil Range	3.83	J	0.290	4.23	1	04/06/2023 07:54	WG2036127
(S) o-Terphenyl	54.2			18.0-148		04/06/2023 07:54	WG2036127

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/28/23 13:27

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	04/04/2023 06:59	WG2034635

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2660		50.7	110	5.05	04/04/2023 06:32	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0237	0.109	1	04/06/2023 11:35	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120		04/06/2023 11:35	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000552	0.00118	1	04/05/2023 12:55	WG2036251
Toluene	U		0.00154	0.00591	1	04/05/2023 12:55	WG2036251
Ethylbenzene	U		0.000872	0.00296	1	04/05/2023 12:55	WG2036251
Total Xylenes	U		0.00104	0.00769	1	04/05/2023 12:55	WG2036251
(S) Toluene-d8	100			75.0-131		04/05/2023 12:55	WG2036251
(S) 4-Bromofluorobenzene	92.1			67.0-138		04/05/2023 12:55	WG2036251
(S) 1,2-Dichloroethane-d4	104			70.0-130		04/05/2023 12:55	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.76	4.36	1	04/06/2023 08:07	WG2036127
C28-C36 Motor Oil Range	1.51	B J	0.299	4.36	1	04/06/2023 08:07	WG2036127
(S) o-Terphenyl	53.9			18.0-148		04/06/2023 08:07	WG2036127

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.9		1	04/04/2023 06:59	WG2034635

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	2770		51.2	111	5	04/04/2023 06:52	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0241	0.111	1	04/06/2023 11:55	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	95.7			77.0-120		04/06/2023 11:55	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000572	0.00122	1	04/05/2023 13:14	WG2036251
Toluene	U		0.00159	0.00612	1	04/05/2023 13:14	WG2036251
Ethylbenzene	U		0.000903	0.00306	1	04/05/2023 13:14	WG2036251
Total Xylenes	U		0.00108	0.00796	1	04/05/2023 13:14	WG2036251
(S) Toluene-d8	101			75.0-131		04/05/2023 13:14	WG2036251
(S) 4-Bromofluorobenzene	94.8			67.0-138		04/05/2023 13:14	WG2036251
(S) 1,2-Dichloroethane-d4	107			70.0-130		04/05/2023 13:14	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.79	4.45	1	04/06/2023 08:20	WG2036127
C28-C36 Motor Oil Range	0.914	B J	0.305	4.45	1	04/06/2023 08:20	WG2036127
(S) o-Terphenyl	41.9			18.0-148		04/06/2023 08:20	WG2036127

Collected date/time: 03/28/23 13:29

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.2		1	04/04/2023 06:59	WG2034635

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1920		51.0	111	5	04/04/2023 07:01	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0241	0.111	1	04/06/2023 12:16	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		04/06/2023 12:16	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000569	0.00122	1	04/05/2023 13:33	WG2036251
Toluene	U		0.00158	0.00609	1	04/05/2023 13:33	WG2036251
Ethylbenzene	U		0.000898	0.00304	1	04/05/2023 13:33	WG2036251
Total Xylenes	U		0.00107	0.00792	1	04/05/2023 13:33	WG2036251
(S) Toluene-d8	101			75.0-131		04/05/2023 13:33	WG2036251
(S) 4-Bromofluorobenzene	54.3	J2		67.0-138		04/05/2023 13:33	WG2036251
(S) 1,2-Dichloroethane-d4	88.9			70.0-130		04/05/2023 13:33	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.79	4.44	1	04/06/2023 08:39	WG2036127
C28-C36 Motor Oil Range	0.500	B J	0.304	4.44	1	04/06/2023 08:39	WG2036127
(S) o-Terphenyl	54.4			18.0-148		04/06/2023 08:39	WG2036127

Collected date/time: 03/28/23 13:30

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.8		1	04/04/2023 06:49	WG2034636

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1960		50.1	109	5	04/04/2023 07:11	WG2035060

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0236	0.109	1	04/06/2023 12:36	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	95.7			77.0-120		04/06/2023 12:36	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000551	0.00118	1	04/05/2023 13:52	WG2036251
Toluene	U		0.00153	0.00589	1	04/05/2023 13:52	WG2036251
Ethylbenzene	U		0.000869	0.00295	1	04/05/2023 13:52	WG2036251
Total Xylenes	U		0.00104	0.00766	1	04/05/2023 13:52	WG2036251
(S) Toluene-d8	100			75.0-131		04/05/2023 13:52	WG2036251
(S) 4-Bromofluorobenzene	90.5			67.0-138		04/05/2023 13:52	WG2036251
(S) 1,2-Dichloroethane-d4	118			70.0-130		04/05/2023 13:52	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.75	4.36	1	04/06/2023 08:52	WG2036127
C28-C36 Motor Oil Range	1.86	B J	0.298	4.36	1	04/06/2023 08:52	WG2036127
(S) o-Terphenyl	59.1			18.0-148		04/06/2023 08:52	WG2036127

Collected date/time: 03/28/23 13:43

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	04/04/2023 06:49	WG2034636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	27.6		9.79	21.3	1.03	04/06/2023 06:30	WG2036612

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	04/06/2023 12:57	WG2037033
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.1			77.0-120		04/06/2023 12:57	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000497	0.00106	1	04/05/2023 14:11	WG2036251
Toluene	U		0.00138	0.00532	1	04/05/2023 14:11	WG2036251
Ethylbenzene	U		0.000785	0.00266	1	04/05/2023 14:11	WG2036251
Total Xylenes	U		0.000937	0.00692	1	04/05/2023 14:11	WG2036251
(S) <i>Toluene-d8</i>	97.7			75.0-131		04/05/2023 14:11	WG2036251
(S) <i>4-Bromofluorobenzene</i>	93.6			67.0-138		04/05/2023 14:11	WG2036251
(S) <i>1,2-Dichloroethane-d4</i>	115			70.0-130		04/05/2023 14:11	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.79	J	1.66	4.13	1	04/06/2023 22:35	WG2036128
C28-C36 Motor Oil Range	11.1		0.283	4.13	1	04/06/2023 22:35	WG2036128
(S) <i>o</i> -Terphenyl	71.0			18.0-148		04/06/2023 22:35	WG2036128

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/28/23 13:44

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.3		1	04/04/2023 06:49	WG2034636

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	97.5		9.84	21.4	1.04	04/06/2023 06:46	WG2036612

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	04/06/2023 13:17	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	95.7			77.0-120		04/06/2023 13:17	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000493	0.00106	1	04/05/2023 14:30	WG2036251
Toluene	U		0.00137	0.00528	1	04/05/2023 14:30	WG2036251
Ethylbenzene	U		0.000778	0.00264	1	04/05/2023 14:30	WG2036251
Total Xylenes	U		0.000929	0.00686	1	04/05/2023 14:30	WG2036251
(S) Toluene-d8	102			75.0-131		04/05/2023 14:30	WG2036251
(S) 4-Bromofluorobenzene	92.8			67.0-138		04/05/2023 14:30	WG2036251
(S) 1,2-Dichloroethane-d4	115			70.0-130		04/05/2023 14:30	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.79	J	1.65	4.11	1	04/06/2023 22:48	WG2036128
C28-C36 Motor Oil Range	10.7		0.282	4.11	1	04/06/2023 22:48	WG2036128
(S) o-Terphenyl	77.9			18.0-148		04/06/2023 22:48	WG2036128

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/28/23 13:46

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.0		1	04/04/2023 06:49	WG2034636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1900		49.5	108	5	04/06/2023 07:02	WG2036612

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0233	0.108	1	04/06/2023 13:38	WG2037033
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.5			77.0-120		04/06/2023 13:38	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000538	0.00115	1	04/05/2023 14:49	WG2036251
Toluene	U		0.00150	0.00576	1	04/05/2023 14:49	WG2036251
Ethylbenzene	U		0.000848	0.00288	1	04/05/2023 14:49	WG2036251
Total Xylenes	U		0.00101	0.00748	1	04/05/2023 14:49	WG2036251
(S) <i>Toluene-d8</i>	99.4			75.0-131		04/05/2023 14:49	WG2036251
(S) <i>4</i> -Bromofluorobenzene	96.6			67.0-138		04/05/2023 14:49	WG2036251
(S) <i>1,2</i> -Dichloroethane- <i>d4</i>	116			70.0-130		04/05/2023 14:49	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.73	4.30	1	04/06/2023 17:47	WG2036128
C28-C36 Motor Oil Range	5.44		0.295	4.30	1	04/06/2023 17:47	WG2036128
(S) <i>o</i> -Terphenyl	83.0			18.0-148		04/06/2023 17:47	WG2036128

Collected date/time: 03/28/23 13:48

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.5		1	04/04/2023 06:49	WG2034636

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	718		12.3	26.8	1.01	04/06/2023 07:18	WG2036612

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0288	0.132	1	04/06/2023 13:58	WG2037033
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.8			77.0-120		04/06/2023 13:58	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000772	0.00165	1	04/05/2023 15:08	WG2036251
Toluene	U		0.00215	0.00827	1	04/05/2023 15:08	WG2036251
Ethylbenzene	U		0.00122	0.00413	1	04/05/2023 15:08	WG2036251
Total Xylenes	U		0.00146	0.0107	1	04/05/2023 15:08	WG2036251
(S) <i>Toluene-d8</i>	98.6			75.0-131		04/05/2023 15:08	WG2036251
(S) <i>4-Bromofluorobenzene</i>	91.1			67.0-138		04/05/2023 15:08	WG2036251
(S) <i>1,2-Dichloroethane-d4</i>	114			70.0-130		04/05/2023 15:08	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		2.13	5.30	1	04/06/2023 17:34	WG2036128
C28-C36 Motor Oil Range	U		0.363	5.30	1	04/06/2023 17:34	WG2036128
(S) <i>o</i> -Terphenyl	71.1			18.0-148		04/06/2023 17:34	WG2036128

Collected date/time: 03/28/23 13:50

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.4		1	04/04/2023 06:49	WG2034636

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	2870		49.8	108	5	04/06/2023 07:34	WG2036612

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0235	0.108	1	04/06/2023 14:19	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	95.8			77.0-120		04/06/2023 14:19	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000544	0.00116	1	04/05/2023 15:27	WG2036251
Toluene	U		0.00151	0.00582	1	04/05/2023 15:27	WG2036251
Ethylbenzene	U		0.000859	0.00291	1	04/05/2023 15:27	WG2036251
Total Xylenes	U		0.00103	0.00757	1	04/05/2023 15:27	WG2036251
(S) Toluene-d8	98.6			75.0-131		04/05/2023 15:27	WG2036251
(S) 4-Bromofluorobenzene	93.5			67.0-138		04/05/2023 15:27	WG2036251
(S) 1,2-Dichloroethane-d4	113			70.0-130		04/05/2023 15:27	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.74	4.33	1	04/06/2023 18:00	WG2036128
C28-C36 Motor Oil Range	1.92	J	0.296	4.33	1	04/06/2023 18:00	WG2036128
(S) o-Terphenyl	63.0			18.0-148		04/06/2023 18:00	WG2036128

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/28/23 13:51

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.7		1	04/04/2023 06:49	WG2034636

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1520		10.1	22.1	1	04/06/2023 07:50	WG2036612

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0239	0.110	1	04/06/2023 14:39	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	95.8			77.0-120		04/06/2023 14:39	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000563	0.00121	1	04/05/2023 15:46	WG2036251
Toluene	U		0.00157	0.00603	1	04/05/2023 15:46	WG2036251
Ethylbenzene	U		0.000889	0.00301	1	04/05/2023 15:46	WG2036251
Total Xylenes	U		0.00106	0.00784	1	04/05/2023 15:46	WG2036251
(S) Toluene-d8	100			75.0-131		04/05/2023 15:46	WG2036251
(S) 4-Bromofluorobenzene	90.9			67.0-138		04/05/2023 15:46	WG2036251
(S) 1,2-Dichloroethane-d4	114			70.0-130		04/05/2023 15:46	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.78	4.41	1	04/06/2023 18:13	WG2036128
C28-C36 Motor Oil Range	2.15	J	0.302	4.41	1	04/06/2023 18:13	WG2036128
(S) o-Terphenyl	71.9			18.0-148		04/06/2023 18:13	WG2036128

Collected date/time: 03/28/23 13:52

L1600429

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.5		1	04/04/2023 06:49	WG2034636

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	951		10.1	22.1	1.02	04/06/2023 08:06	WG2036612

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0235	0.108	1	04/06/2023 15:00	WG2037033
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		04/06/2023 15:00	WG2037033

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000543	0.00116	1	04/05/2023 16:04	WG2036251
Toluene	U		0.00151	0.00582	1	04/05/2023 16:04	WG2036251
Ethylbenzene	U		0.000857	0.00291	1	04/05/2023 16:04	WG2036251
Total Xylenes	U		0.00102	0.00756	1	04/05/2023 16:04	WG2036251
(S) Toluene-d8	100			75.0-131		04/05/2023 16:04	WG2036251
(S) 4-Bromofluorobenzene	90.9			67.0-138		04/05/2023 16:04	WG2036251
(S) 1,2-Dichloroethane-d4	111			70.0-130		04/05/2023 16:04	WG2036251

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.74	4.33	1	04/06/2023 18:27	WG2036128
C28-C36 Motor Oil Range	2.10	J	0.296	4.33	1	04/06/2023 18:27	WG2036128
(S) o-Terphenyl	63.1			18.0-148		04/06/2023 18:27	WG2036128

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011 [L1600429-01,02,03,04,05,06,07,08,09](#)

Method Blank (MB)

(MB) R3908857-1 04/03/23 13:58

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

¹Cp

²Tc

³Ss

L1600429-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1600429-01 04/03/23 13:58 • (DUP) R3908857-3 04/03/23 13:58

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	90.2	84.7	1	6.36		10

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R3908857-2 04/03/23 13:58

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁷Gl

⁸Al

⁹Sc

Total Solids by Method 2540 G-2011 [L1600429-10,11,12,13,14,15,16,17,18,19](#)

Method Blank (MB)

(MB) R3909441-1 04/04/23 06:59

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1600429-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1600429-11 04/04/23 06:59 • (DUP) R3909441-3 04/04/23 06:59

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	76.3	74.5	1	2.32		10

Laboratory Control Sample (LCS)

(LCS) R3909441-2 04/04/23 06:59

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁷Gl

⁸Al

⁹Sc

Total Solids by Method 2540 G-2011 [L1600429-20,21,22,23,24,25,26,27](#)

Method Blank (MB)

(MB) R3909440-1 04/04/23 06:49

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1600429-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1600429-24 04/04/23 06:49 • (DUP) R3909440-3 04/04/23 06:49

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	75.5	77.2	1	2.28		10

Laboratory Control Sample (LCS)

(LCS) R3909440-2 04/04/23 06:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3909090-1 04/04/23 02:12				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1600429-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1600429-03 04/04/23 03:12 • (DUP) R3909090-3 04/04/23 03:21						
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	76.3	75.9	1.02	0.539		20

L1600429-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1600429-17 04/04/23 06:32 • (DUP) R3909090-6 04/04/23 06:42						
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	2660	2640	5	0.969		20

Laboratory Control Sample (LCS)

(LCS) R3909090-2 04/04/23 02:21					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	201	101	90.0-110	

L1600429-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600429-03 04/04/23 03:12 • (MS) R3909090-4 04/04/23 03:31 • (MSD) R3909090-5 04/04/23 03:40												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	595	76.3	707	708	106	106	1.04	80.0-120			0.153	20

Wet Chemistry by Method 300.0

[L1600429-21,22,23,24,25,26,27](#)

Method Blank (MB)

(MB) R3910250-1 04/06/23 05:58

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1600429-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1600429-27 04/06/23 08:06 • (DUP) R3910250-3 04/06/23 08:22

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	951	922	1	3.11		20

L1601781-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1601781-01 04/06/23 10:45 • (DUP) R3910250-4 04/06/23 11:01

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3910250-2 04/06/23 06:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	202	101	90.0-110	

L1601781-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1601781-01 04/06/23 10:45 • (MS) R3910250-5 04/06/23 11:17 • (MSD) R3910250-6 04/06/23 11:33

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	603	U	610	607	101	101	1	80.0-120			0.437	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

Method Blank (MB)

(MB) R3910578-2 04/06/23 00:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.1			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3910578-1 04/05/23 23:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.06	92.0	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1600429-17,18,19,20,21,22,23,24,25,26,27](#)

Method Blank (MB)

(MB) R3911084-2 04/06/23 10:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3911084-1 04/06/23 09:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.65	84.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

Volatile Organic Compounds (GC/MS) by Method 8260B

L1600429-01,02,03,04,05,06,07,08,09,10,11,12,13,14

Method Blank (MB)

(MB) R3909951-2 04/05/23 11:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	93.9			75.0-131
(S) 4-Bromofluorobenzene	107			67.0-138
(S) 1,2-Dichloroethane-d4	90.6			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3909951-1 04/05/23 10:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.116	92.8	70.0-123	
Toluene	0.125	0.118	94.4	75.0-121	
Ethylbenzene	0.125	0.120	96.0	74.0-126	
Xylenes, Total	0.375	0.375	100	72.0-127	
(S) Toluene-d8			92.4	75.0-131	
(S) 4-Bromofluorobenzene			110	67.0-138	
(S) 1,2-Dichloroethane-d4			109	70.0-130	

L1600429-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600429-01 04/05/23 11:43 • (MS) R3909951-3 04/05/23 18:53 • (MSD) R3909951-4 04/05/23 19:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.151	U	0.142	0.142	94.4	94.4	1	10.0-149			0.000	37
Toluene	0.151	U	0.149	0.161	98.4	106	1	10.0-156			7.87	38
Ethylbenzene	0.151	U	0.155	0.155	102	102	1	10.0-160			0.000	38
Xylenes, Total	0.453	U	0.429	0.452	94.6	99.7	1	10.0-160			5.26	38
(S) Toluene-d8					90.1	92.6		75.0-131				
(S) 4-Bromofluorobenzene					107	105		67.0-138				
(S) 1,2-Dichloroethane-d4					94.2	95.7		70.0-130				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

L1600429-15,16,17,18,19,20,21,22,23,24,25,26,27

Method Blank (MB)

(MB) R3910105-3 04/05/23 11:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	98.8			75.0-131
(S) 4-Bromofluorobenzene	93.3			67.0-138
(S) 1,2-Dichloroethane-d4	109			70.0-130

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3910105-1 04/05/23 10:02 • (LCSD) R3910105-2 04/05/23 10:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.141	0.141	113	113	70.0-123			0.000	20
Toluene	0.125	0.132	0.127	106	102	75.0-121			3.86	20
Ethylbenzene	0.125	0.124	0.128	99.2	102	74.0-126			3.17	20
Xylenes, Total	0.375	0.390	0.377	104	101	72.0-127			3.39	20
(S) Toluene-d8				96.4	96.9	75.0-131				
(S) 4-Bromofluorobenzene				93.4	91.9	67.0-138				
(S) 1,2-Dichloroethane-d4				122	121	70.0-130				

7
Gl

8
Al

9
Sc

L1600429-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600429-16 04/05/23 12:35 • (MS) R3910105-4 04/05/23 17:19 • (MSD) R3910105-5 04/05/23 17:38

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.139	U	0.108	0.184	77.7	132	1	10.0-149		J3	51.8	37
Toluene	0.139	U	0.113	0.134	80.8	96.0	1	10.0-156			17.2	38
Ethylbenzene	0.139	U	0.102	0.168	73.4	121	1	10.0-160		J3	48.9	38
Xylenes, Total	0.418	U	0.309	0.522	73.9	125	1	10.0-160		J3	51.3	38
(S) Toluene-d8					103	70.4		75.0-131		J2		
(S) 4-Bromofluorobenzene					91.8	61.4		67.0-138		J2		
(S) 1,2-Dichloroethane-d4					116	115		70.0-130				

Method Blank (MB)

(MB) R3909623-1 04/05/23 11:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	73.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3909623-2 04/05/23 11:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	35.6	71.2	50.0-150	
(S) o-Terphenyl			88.0	18.0-148	

L1600426-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600426-01 04/05/23 14:58 • (MS) R3909623-3 04/05/23 15:11 • (MSD) R3909623-4 04/05/23 15:25

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	59.1	2.54	41.9	31.0	66.7	48.9	1	50.0-150		J3 J6	29.8	20
(S) o-Terphenyl					80.7	64.8		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3910160-1 04/06/23 07:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.329	J	0.274	4.00
(S) o-Terphenyl	55.4			18.0-148

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3910160-2 04/06/23 09:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	25.1	50.2	50.0-150	
(S) o-Terphenyl			61.0	18.0-148	

L1600801-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600801-03 04/06/23 11:48 • (MS) R3910160-3 04/06/23 12:01 • (MSD) R3910160-4 04/06/23 12:14

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	48.8	49.7	90.4	179	83.4	269	5	50.0-150		J3 J5	65.8	20
(S) o-Terphenyl					40.6	48.6		18.0-148				

Method Blank (MB)

(MB) R3910502-1 04/06/23 17:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	87.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3910502-2 04/06/23 17:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	40.1	80.2	50.0-150	
(S) o-Terphenyl			89.6	18.0-148	

L1600441-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1600441-19 04/06/23 19:51 • (MS) R3910502-3 04/06/23 20:03 • (MSD) R3910502-4 04/06/23 20:19

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.4	U	35.1	45.8	71.0	92.1	1	50.0-150		J3	26.5	20
(S) o-Terphenyl					71.2	99.2		18.0-148				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(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
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	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.

¹Cp

²Tc

³Ss

⁴Cn

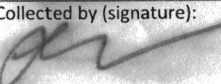
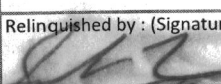
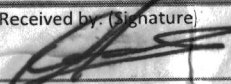
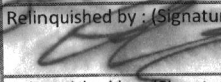
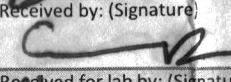
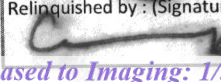
⁵Sr

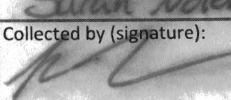
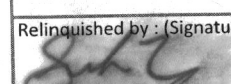
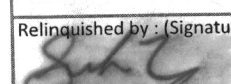
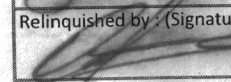
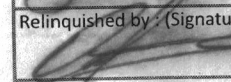
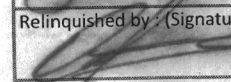
⁶Qc

⁷Gl

⁸Al

⁹Sc

Company Name/Address: Arcadis - Chevron - NM		Billing Information: Accounts Payable 401 East Main Street Suite 400 El Paso, TX 79901		Pres Chk		Analysis / Container / Preservative										Chain of Custody Page L of 5				
401 East Main Street Suite 400 El Paso, TX 79901		Email To: russell.grant@arcadis.com;sarah.johnson@arca														 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf				
Report to: Sarah Johnson		City/State Collected: Las Vegas, NM		Please Circle: PT ☒ MT ☐ CT ☐ ET												SDG # L160004429 D150				
Project Description: Pardue Farms 27-12		Client Project # 30093248.0003B		Lab Project # CHEVARCNM-PARDUE												Acctnum: CHEVARCNM Template: T198880 Prelogin: P961669 PM: 526 - Chris McCord PB: 11/10/22 M6				
Phone: 432-227-0266		Collected by (print): Sarah NM		Site/Facility ID # PARDUE FARMS 27-12		P.O. #												Shipped Via: FedEX Ground		
Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #		Date Results Needed Standard												Remarks Sample # (lab only)		
Immediately Packed on Ice N ☐ Y ☒																				
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	Centrs													
MW-7-5-0-1-230328		G	SS	0-1	3-28-29	1040	1	X											-01	
MW-7-5-2-230328			SS	2		1041	1	X											-02	
MW-7-5-3-4-230328			SS	3-4		1042	1	X											-03	
MW-7-5-9-10-230328			SS	9-10		1045	1	X											-04	
MW-7-5-14-15-230328			SS	14-15		1046	1	X											-05	
MW-7-5-19-20-230328			SS	19-20		1048	1	X											-06	
MW-7-5-24-25-230328			SS	24-25		1052	1	X											-07	
MW-7-5-29-30-230328			SS	29-30		1056	1	X											-08	
MW-7-5-34-35-230328			SS	34-35		1058	1	X											-09	
MW-7-5-39-40-230328		G	SS	39-40	3-28-29	1101	1	X											-10	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other		Remarks: TPH = GRO, DRONM		pH _____ Temp _____		Flow _____ Other _____												Sample Receipt Checklist COC Seal Present/Intact: ☒ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☐ Y ☐ N Preservation Correct/Checked: ☐ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N		
Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking #																		
Relinquished by: (Signature) 		Date: 03/28/23	Time: 1556	Received by: (Signature) 		Trip Blank Received: ☒ Yes ☐ No HCL / MeOH TBR														
Relinquished by: (Signature) 		Date: 3-28-23	Time: 2010	Received by: (Signature) 		Temp: NSA7C Bottles Received: 5.4+0=5.4 27												If preservation required by Login: Date/Time		
Relinquished by: (Signature) 		Date: 3/29/23	Time: 1700	Received for lab by: (Signature) Hayden		Date: 3/31/23 Time: 800												Hold: Condition: NCF / OK		

Company Name/Address: Arcadis - Chevron - NM 401 East Main Street Suite 400 El Paso, TX 79901		Billing Information: Accounts Payable 401 East Main Street Suite 400 El Paso, TX 79901		Report to: Sarah Johnson		Email To: russell.grant@arcadis.com;sarah.johnson@arca		Project Description: Pardue Farms 27-12		City/State Collected: Las Vegas, NM		Please Circle: PT MT CT ET PT		Analysis / Container / Preservative V8260BTEX, TPH, CI-300 4ozClr-NoPres		Chain of Custody Page 2 of 3  PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf					
Phone: 432-227-0266		Client Project # 30093248.0003B		Lab Project # CHEVARCNM-PARDUE		Collected by (print): Sarah Nolen		Site/Facility ID # PARDUE FARMS 27-12		P.O. #		Collected by (signature): 		Rush? (Lab MUST Be Notified) ☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Quote #		Date Results Needed Standard		No. of Cntrs	
Immediately Packed on Ice N ☐ Y ☒		Sample ID		Comp/Grab		Matrix *		Depth		Date		Time		pH _____ Temp _____ Flow _____ Other _____		Sample Receipt Checklist COC Seal Present/Intact: ☒ NP ☐ Y ☐ N COC Signed/Accurate: ☒ Y ☐ N Bottles arrive intact: ☒ Y ☐ N Correct bottles used: ☒ Y ☐ N Sufficient volume sent: ☒ Y ☐ N If Applicable VOA Zero Headspace: ☐ Y ☐ N Preservation Correct/Checked: ☒ Y ☐ N RAD Screen <0.5 mR/hr: ☒ Y ☐ N					
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other _____		Remarks: TPH = GRO, DRONM		Samples returned via: ☐ UPS ☐ FedEx ☐ Courier		Tracking #		Relinquished by: (Signature) 		Date: 03/28/23		Time: 1556		Received by: (Signature) 		Trip Blank Received: ☒ Yes ☐ No HCL MeOH TBR		Temp: 5.4 °C Bottles Received: 27		If preservation required by Login: Date/Time	
Relinquished by: (Signature) 		Date: 3/28/23		Time: 2010		Received by: (Signature) 		Date: 3/29/23		Time: 1700		Received for lab by: (Signature) 		Date: 3/31/23		Time: 800		Hold:		Condition: NCF / OK	

Company Name/Address: Arcadis - Chevron - NM		Billing Information: Accounts Payable 401 East Main Street Suite 400 El Paso, TX 79901		Analysis / Container / Preservative		Chain of Custody Page 2 of 3	
401 East Main Street Suite 400 El Paso, TX 79901		Email To: russell.grant@arcadis.com;sarah.johnson@arca		Pres Chk		 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf	
Report to: Sarah Johnson		City/State Collected: Long NM		Please Circle: PT MT CT ET MT			
Project Description: Pardue Farms 27-12		Client Project # 30093248.0003B		Lab Project # CHEVARCNM-PARDUE			
Phone: 432-227-0266		Site/Facility ID # PARDUE FARMS 27-12		P.O. #			
Collected by (print): Sarah Johnson		Rush? (Lab MUST Be Notified)		Quote #			
Collected by (signature): 		☐ Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day		Date Results Needed Standard		No. of Cntrs	
Immediately Packed on Ice N ☐ Y ☒							
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		
5B-28-5-0-1-230328	G	SS	0-1	3-28-23	1343	1	X
5B-28-5-2-230328		SS	2		1344	1	X
5B-28-5-4-230328		SS	4		1346	1	X
5B-28-5-7-10-230328		SS	7-10		1348	1	X
5B-28-5-14-10-230328		SS	14-15		1350	1	X
5B-28-5-19-20-230328		SS	19-20		1351	1	X
5B-28-5-23-24-230328	G	SS	23-24	3-28-23	1352	1	X
		SS				1	X
		SS				1	X
		SS				1	X

* Matrix:

SS - Soil AIR - Air F - Filter

GW - Groundwater B - Bioassay

WW - WasteWater

DW - Drinking Water

OT - Other

Remarks: **TPH = GRO, DRONM**

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

If Applicable

VOA Zero Headspace: ☐ Y ☐ N

Preservation Correct/Checked: ☐ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Relinquished by: (Signature)	Date: 03/28/23	Time: 1536	Received by: (Signature)	Trip Blank Received: ☒ Yes ☐ No	If preservation required by Login: Date/Time Hold: Condition: NCF / OK
Relinquished by: (Signature)	Date: 3-28-23	Time: 2000	Received by: (Signature)	Temp: NSA 7°C Bottles Received: 5.4+0=5.4 27	
Relinquished by: (Signature)	Date: 3/29/23	Time: 1100	Received for lab by: (Signature)	Date: 3/31/23 Time: 800	



ANALYTICAL REPORT

April 11, 2023

Arcadis - Chevron - NM

Sample Delivery Group: L1600424
Samples Received: 03/31/2023
Project Number: 30155845.00003
Description: Pardue Farms 27-12
Site: PARDUE FARMS 27-12
Report To: Russell Grant
401 East Main Street
Suite 400
El Paso, TX 79901

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Entire Report Reviewed By:

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 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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	1 Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	2 Tc
Cn: Case Narrative	5	
Sr: Sample Results	6	3 Ss
MW-1-W-230328 L1600424-01	6	
MW-2-W-230329 L1600424-02	7	4 Cn
MW-3-W-230329 L1600424-03	8	
MW-6-W-230328 L1600424-04	9	5 Sr
MW-7-W-230329 L1600424-05	10	
MW-8-W-230329 L1600424-06	11	6 Qc
DUP-01-W-230329 L1600424-07	12	
EB-W-230329 L1600424-08	13	7 Gl
FB-W-230329 L1600424-09	14	
Qc: Quality Control Summary	15	8 Al
Gravimetric Analysis by Method 2540 C-2011	15	
Wet Chemistry by Method 300.0	18	9 Sc
Volatile Organic Compounds (GC) by Method 8015/8021/8021B	19	
Semi-Volatile Organic Compounds (GC) by Method 8015M	20	
Gl: Glossary of Terms	22	
Al: Accreditations & Locations	23	
Sc: Sample Chain of Custody	24	

MW-1-W-230328 L1600424-01 GW

Collected by
Collected date/time
Received date/time

03/28/23 15:46 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2033860	1	04/01/23 09:21	04/01/23 10:08	AS	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035058	100	04/04/23 03:11	04/04/23 03:11	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2035018	1	04/04/23 01:49	04/04/23 01:49	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035183	1	04/04/23 16:57	04/06/23 02:07	MAA	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

MW-2-W-230329 L1600424-02 GW

Collected by
Collected date/time
Received date/time

03/29/23 12:40 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2033860	1	04/01/23 09:21	04/01/23 10:08	AS	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035058	100	04/04/23 03:23	04/04/23 03:23	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2035018	1	04/04/23 02:10	04/04/23 02:10	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035183	1	04/04/23 16:57	04/06/23 02:29	MAA	Mt. Juliet, TN

MW-3-W-230329 L1600424-03 GW

Collected by
Collected date/time
Received date/time

03/29/23 13:40 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2033860	1	04/01/23 09:21	04/01/23 10:08	AS	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035058	100	04/04/23 04:02	04/04/23 04:02	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2035018	1	04/04/23 02:32	04/04/23 02:32	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035183	1	04/04/23 16:57	04/06/23 02:51	MAA	Mt. Juliet, TN

MW-6-W-230328 L1600424-04 GW

Collected by
Collected date/time
Received date/time

03/28/23 14:32 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2033860	1	04/01/23 09:21	04/01/23 10:08	AS	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035058	100	04/04/23 04:15	04/04/23 04:15	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2035018	1	04/04/23 02:54	04/04/23 02:54	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035183	1	04/04/23 16:57	04/06/23 03:14	MAA	Mt. Juliet, TN

MW-7-W-230329 L1600424-05 GW

Collected by
Collected date/time
Received date/time

03/29/23 11:25 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2033860	1	04/01/23 09:21	04/01/23 10:08	AS	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035058	100	04/04/23 04:27	04/04/23 04:27	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2035018	1	04/04/23 03:16	04/04/23 03:16	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035183	1	04/04/23 16:57	04/06/23 03:36	MAA	Mt. Juliet, TN

MW-8-W-230329 L1600424-06 GW

Collected by
Collected date/time
Received date/time

03/29/23 10:25 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2033860	1	04/01/23 09:21	04/01/23 10:08	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035058	100	04/04/23 04:40	04/04/23 04:40	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2035018	1	04/04/23 03:38	04/04/23 03:38	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035908	1	04/05/23 13:33	04/06/23 06:25	NH	Mt. Juliet, TN

DUP-01-W-230329 L1600424-07 GW

Collected by
Collected date/time
Received date/time

03/29/23 00:00 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2036980	1	04/06/23 18:10	04/06/23 23:50	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035058	100	04/04/23 04:53	04/04/23 04:53	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2035018	1	04/04/23 04:00	04/04/23 04:00	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035908	1	04/05/23 13:33	04/06/23 06:45	NH	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

EB-W-230329 L1600424-08 GW

Collected by
Collected date/time
Received date/time

03/29/23 14:40 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2034728	1	04/04/23 07:19	04/04/23 08:55	AS	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2035058	1	04/04/23 05:06	04/04/23 05:06	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2035018	1	04/04/23 01:05	04/04/23 01:05	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2035908	1	04/05/23 13:33	04/06/23 07:06	NH	Mt. Juliet, TN

FB-W-230329 L1600424-09 GW

Collected by
Collected date/time
Received date/time

03/29/23 14:25 03/31/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2035018	1	04/04/23 01:26	04/04/23 01:26	JAH	Mt. Juliet, TN

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

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	15600		400	1	04/01/2023 10:08	WG2033860

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	7460		37.9	100	100	04/04/2023 03:11	WG2035058

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/04/2023 01:49	WG2035018
Toluene	U		0.000412	0.00100	1	04/04/2023 01:49	WG2035018
Ethylbenzene	U		0.000160	0.000500	1	04/04/2023 01:49	WG2035018
Total Xylene	U		0.000510	0.00150	1	04/04/2023 01:49	WG2035018
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/04/2023 01:49	WG2035018
(S) a,a,a-Trifluorotoluene(FID)	102			78.0-120		04/04/2023 01:49	WG2035018
(S) a,a,a-Trifluorotoluene(PID)	106			79.0-125		04/04/2023 01:49	WG2035018

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.104	B	0.0222	0.100	1	04/06/2023 02:07	WG2035183
C28-C36 Motor Oil Range	0.281	B	0.0118	0.100	1	04/06/2023 02:07	WG2035183
(S) o-Terphenyl	88.0			52.0-156		04/06/2023 02:07	WG2035183

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	13800		200	1	04/01/2023 10:08	WG2033860

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5510		37.9	100	100	04/04/2023 03:23	WG2035058

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/04/2023 02:10	WG2035018
Toluene	U		0.000412	0.00100	1	04/04/2023 02:10	WG2035018
Ethylbenzene	U		0.000160	0.000500	1	04/04/2023 02:10	WG2035018
Total Xylene	U		0.000510	0.00150	1	04/04/2023 02:10	WG2035018
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/04/2023 02:10	WG2035018
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		04/04/2023 02:10	WG2035018
(S) a,a,a-Trifluorotoluene(PID)	107			79.0-125		04/04/2023 02:10	WG2035018

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.0713	B	0.0222	0.100	1	04/06/2023 02:29	WG2035183
C28-C36 Motor Oil Range	0.130	B	0.0118	0.100	1	04/06/2023 02:29	WG2035183
(S) o-Terphenyl	116			52.0-156		04/06/2023 02:29	WG2035183

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/29/23 13:40

L1600424

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	13900		200	1	04/01/2023 10:08	WG2033860

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5930		37.9	100	100	04/04/2023 04:02	WG2035058

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/04/2023 02:32	WG2035018
Toluene	U		0.000412	0.00100	1	04/04/2023 02:32	WG2035018
Ethylbenzene	U		0.000160	0.000500	1	04/04/2023 02:32	WG2035018
Total Xylene	U		0.000510	0.00150	1	04/04/2023 02:32	WG2035018
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/04/2023 02:32	WG2035018
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		04/04/2023 02:32	WG2035018
(S) a,a,a-Trifluorotoluene(PID)	107			79.0-125		04/04/2023 02:32	WG2035018

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.0520	B J	0.0222	0.100	1	04/06/2023 02:51	WG2035183
C28-C36 Motor Oil Range	0.0796	B J	0.0118	0.100	1	04/06/2023 02:51	WG2035183
(S) o-Terphenyl	103			52.0-156		04/06/2023 02:51	WG2035183

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/28/23 14:32

L1600424

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	23400		400	1	04/01/2023 10:08	WG2033860

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	9790		37.9	100	100	04/04/2023 04:15	WG2035058

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/04/2023 02:54	WG2035018
Toluene	U		0.000412	0.00100	1	04/04/2023 02:54	WG2035018
Ethylbenzene	U		0.000160	0.000500	1	04/04/2023 02:54	WG2035018
Total Xylene	U		0.000510	0.00150	1	04/04/2023 02:54	WG2035018
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/04/2023 02:54	WG2035018
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		04/04/2023 02:54	WG2035018
(S) a,a,a-Trifluorotoluene(PID)	107			79.0-125		04/04/2023 02:54	WG2035018

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.135	B	0.0222	0.100	1	04/06/2023 03:14	WG2035183
C28-C36 Motor Oil Range	0.145	B	0.0118	0.100	1	04/06/2023 03:14	WG2035183
(S) o-Terphenyl	150			52.0-156		04/06/2023 03:14	WG2035183

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/29/23 11:25

L1600424

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	13900		200	1	04/01/2023 10:08	WG2033860

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5020		37.9	100	100	04/04/2023 04:27	WG2035058

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/04/2023 03:16	WG2035018
Toluene	0.000843	J	0.000412	0.00100	1	04/04/2023 03:16	WG2035018
Ethylbenzene	U		0.000160	0.000500	1	04/04/2023 03:16	WG2035018
Total Xylene	U		0.000510	0.00150	1	04/04/2023 03:16	WG2035018
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/04/2023 03:16	WG2035018
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		04/04/2023 03:16	WG2035018
(S) a,a,a-Trifluorotoluene(PID)	107			79.0-125		04/04/2023 03:16	WG2035018

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.0869	B J	0.0222	0.100	1	04/06/2023 03:36	WG2035183
C28-C36 Motor Oil Range	0.0646	B J	0.0118	0.100	1	04/06/2023 03:36	WG2035183
(S) o-Terphenyl	108			52.0-156		04/06/2023 03:36	WG2035183

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	13600		200	1	04/01/2023 10:08	WG2033860

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5310		37.9	100	100	04/04/2023 04:40	WG2035058

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/04/2023 03:38	WG2035018
Toluene	0.00170		0.000412	0.00100	1	04/04/2023 03:38	WG2035018
Ethylbenzene	U		0.000160	0.000500	1	04/04/2023 03:38	WG2035018
Total Xylene	U		0.000510	0.00150	1	04/04/2023 03:38	WG2035018
TPH (GC/FID) Low Fraction	0.0343	B J	0.0314	0.100	1	04/04/2023 03:38	WG2035018
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		04/04/2023 03:38	WG2035018
(S) a,a,a-Trifluorotoluene(PID)	107			79.0-125		04/04/2023 03:38	WG2035018

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.389		0.0222	0.100	1	04/06/2023 06:25	WG2035908
C28-C36 Motor Oil Range	0.178		0.0118	0.100	1	04/06/2023 06:25	WG2035908
(S) o-Terphenyl	106			52.0-156		04/06/2023 06:25	WG2035908

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/29/23 00:00

L1600424

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	15600		200	1	04/06/2023 23:50	WG2036980

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5940		37.9	100	100	04/04/2023 04:53	WG2035058

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/04/2023 04:00	WG2035018
Toluene	U		0.000412	0.00100	1	04/04/2023 04:00	WG2035018
Ethylbenzene	U		0.000160	0.000500	1	04/04/2023 04:00	WG2035018
Total Xylene	U		0.000510	0.00150	1	04/04/2023 04:00	WG2035018
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/04/2023 04:00	WG2035018
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		04/04/2023 04:00	WG2035018
(S) a,a,a-Trifluorotoluene(PID)	107			79.0-125		04/04/2023 04:00	WG2035018

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		0.0222	0.100	1	04/06/2023 06:45	WG2035908
C28-C36 Motor Oil Range	0.0372	J	0.0118	0.100	1	04/06/2023 06:45	WG2035908
(S) o-Terphenyl	116			52.0-156		04/06/2023 06:45	WG2035908

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/29/23 14:40

L1600424

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	04/04/2023 08:55	WG2034728

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	U		0.379	1.00	1	04/04/2023 05:06	WG2035058

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/04/2023 01:05	WG2035018
Toluene	U		0.000412	0.00100	1	04/04/2023 01:05	WG2035018
Ethylbenzene	U		0.000160	0.000500	1	04/04/2023 01:05	WG2035018
Total Xylene	U		0.000510	0.00150	1	04/04/2023 01:05	WG2035018
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/04/2023 01:05	WG2035018
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		04/04/2023 01:05	WG2035018
(S) a,a,a-Trifluorotoluene(PID)	108			79.0-125		04/04/2023 01:05	WG2035018

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	0.0310	<u>J</u>	0.0222	0.100	1	04/06/2023 07:06	WG2035908
C28-C36 Motor Oil Range	0.0302	<u>J</u>	0.0118	0.100	1	04/06/2023 07:06	WG2035908
(S) o-Terphenyl	115			52.0-156		04/06/2023 07:06	WG2035908

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	04/04/2023 01:26	WG2035018
Toluene	U		0.000412	0.00100	1	04/04/2023 01:26	WG2035018
Ethylbenzene	U		0.000160	0.000500	1	04/04/2023 01:26	WG2035018
Total Xylene	U		0.000510	0.00150	1	04/04/2023 01:26	WG2035018
(S) a,a,a-Trifluorotoluene(PID)	108			79.0-125		04/04/2023 01:26	WG2035018

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3908468-1 04/01/23 10:08

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

L1598492-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1598492-02 04/01/23 10:08 • (DUP) R3908468-3 04/01/23 10:08

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	10500	12600	1	18.2	<u>J3</u>	5

Laboratory Control Sample (LCS)

(LCS) R3908468-2 04/01/23 10:08

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	7970	90.6	77.3-123	

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3909892-1 04/04/23 08:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1599973-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1599973-03 04/04/23 08:55 • (DUP) R3909892-3 04/04/23 08:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	9260	9800	1	5.67	J3	5

L1599992-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1599992-01 04/04/23 08:55 • (DUP) R3909892-4 04/04/23 08:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	605	613	1	1.31		5

Laboratory Control Sample (LCS)

(LCS) R3909892-2 04/04/23 08:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	7560	85.9	77.3-123	

Gravimetric Analysis by Method 2540 C-2011 [L1600424-07](#)

Method Blank (MB)

(MB) R3911911-1 04/06/23 23:50

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1602302-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1602302-12 04/06/23 23:50 • (DUP) R3911911-3 04/06/23 23:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	918	896	1	2.43		5

L1602302-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1602302-13 04/06/23 23:50 • (DUP) R3911911-4 04/06/23 23:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	996	916	1	8.37	<u>J3</u>	5

Laboratory Control Sample (LCS)

(LCS) R3911911-2 04/06/23 23:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Dissolved Solids	8800	8280	94.1	77.3-123	

Wet Chemistry by Method 300.0

L1600424-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3908989-1 04/03/23 17:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		0.379	1.00

L1599938-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1599938-01 04/04/23 01:28 • (DUP) R3908989-3 04/04/23 01:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	116	116	1	0.0251		20

L1600424-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1600424-08 04/04/23 05:06 • (DUP) R3908989-6 04/04/23 05:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3908989-2 04/03/23 18:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	39.7	99.3	90.0-110	

L1599938-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1599938-01 04/04/23 01:28 • (MS) R3908989-4 04/04/23 01:54 • (MSD) R3908989-5 04/04/23 02:07

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	50.0	116	161	161	90.7	90.9	1	80.0-120			0.0751	20

L1600424-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1600424-08 04/04/23 05:06 • (MS) R3908989-7 04/04/23 05:32

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	50.0	U	49.6	99.2	1	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

[L1600424-01,02,03,04,05,06,07,08,09](#)

Method Blank (MB)

(MB) R3910359-3 04/03/23 23:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL 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
TPH (GC/FID) Low Fraction	0.0324	⬇	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120
(S) a,a,a-Trifluorotoluene(PID)	108			79.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3910359-1 04/03/23 21:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.12	111	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			109	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			110	79.0-125	

Laboratory Control Sample (LCS)

(LCS) R3910359-2 04/03/23 22:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0509	102	77.0-122	
Toluene	0.0500	0.0515	103	80.0-121	
Ethylbenzene	0.0500	0.0572	114	80.0-123	
Total Xylene	0.150	0.170	113	47.0-154	
(S) a,a,a-Trifluorotoluene(FID)			102	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			106	79.0-125	

Semi-Volatile Organic Compounds (GC) by Method 8015M [L1600424-01,02,03,04,05](#)

Method Blank (MB)

(MB) R3910075-1 04/06/23 00:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C10-C28 Diesel Range	0.0354	U	0.0222	0.100
C28-C36 Motor Oil Range	0.0396	U	0.0118	0.100
(S) o-Terphenyl	107			52.0-156

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3910075-2 04/06/23 01:11 • (LCSD) R3910075-3 04/06/23 01:34

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	1.50	1.42	1.42	94.7	94.7	50.0-150			0.000	20
(S) o-Terphenyl				103	103	52.0-156				

Semi-Volatile Organic Compounds (GC) by Method 8015M [L1600424-06.07.08](#)

Method Blank (MB)

(MB) R3909918-1 04/05/23 23:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C10-C28 Diesel Range	U		0.0222	0.100
C28-C36 Motor Oil Range	U		0.0118	0.100
(S) o-Terphenyl	110			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3909918-2 04/05/23 23:41 • (LCSD) R3909918-3 04/06/23 00:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	1.43	1.61	1.63	113	114	50.0-150			1.23	20
(S) o-Terphenyl				114	107	52.0-156				

1
Cp

2
Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

9
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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	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.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Company Name/Address: Arcadis - Chevron - NM				Billing Information: Accounts Payable 401 East Main Street Suite 400 El Paso, TX 79901				Pres Chk		Analysis / Container / Preservative								Chain of Custody Page <u> </u> of <u> </u>			
401 East Main Street Suite 400 El Paso, TX 79901				Email To: russell.grant@arcadis.com;sarah.johnson@arca														 MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf			
Report to: Russell Grant				City/State Collected: <u>Lowry, NM</u>				Please Circle: PT MT <u>CT</u> ET													
Project Description: Pardue Farms 27-12				Client Project # 30093248-0004B <u>30153845</u>				Lab Project # CHEVARCNM-PARDUE													
Phone: 432-227-0266				Site/Facility ID # PARDUE FARMS 27-12				P.O. #										SDG # <u>L1600424</u> D149			
Collected by (print): <u>David Mcbee</u>				Rush? (Lab MUST Be Notified) Same Day ☐ Five Day ☐ Next Day ☐ 5 Day (Rad Only) ☐ Two Day ☐ 10 Day (Rad Only) ☐ Three Day ☐				Quote #										Acctnum: CHEVARCNM Template: T227223 Prelogin: P989113 PM: 526 - Chris McCord PB:			
Collected by (signature): <u>[Signature]</u>				Date Results Needed <u>standard</u>				No. of Cntrs										Shipped Via:			
Immediately Packed on Ice N ☐ Y ☒																					
Sample ID				Comp/Grab		Matrix *		Depth		Date		Time						Remarks		Sample # (lab only)	
MW-1-W- <u>230328</u>				<u>G</u>		GW				<u>3-28-23</u>		<u>1546</u>		7		X				<u>-01</u>	
MW-2-W- <u>230329</u>						GW				<u>3-28-23</u>		<u>1240</u>		7		X				<u>-02</u>	
MW-3-W- <u>230329</u>						GW				<u>3-28-23</u>		<u>1340</u>		7		X				<u>-03</u>	
MW-6-W- <u>230328</u>						GW				<u>3-28-23</u>		<u>1432</u>		7		X				<u>-04</u>	
MW-7-W- <u>230329</u>						GW				<u>3-28-23</u>		<u>1125</u>		7		X				<u>-05</u>	
MW-8-W- <u>230329</u>						GW				<u>3-28-23</u>		<u>1025</u>		7		X				<u>-06</u>	
DUP-01-W- <u>230329</u>						GW				<u>3-28-23</u>		<u>1440</u>		7		X				<u>-07</u>	
EB-W- <u>230329</u>						GW				<u>3-28-23</u>		<u>14125</u>		3		X				<u>-09</u>	
FB-W- <u>230329</u>				<u>G</u>		GW				<u>3-28-23</u>		<u>14125</u>		3		X					
										<u>3-28-23</u>		<u>14125</u>		3		X					

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other _____

Remarks:

Samples returned via: _____ Tracking # _____

Relinquished by: (Signature) [Signature] Date: 3-29-23 Time: 1910

Relinquished by: (Signature) [Signature] Date: 3/30/23 Time: 1700

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) [Signature] Trip Blank Received: Yes ☒ No ☐
HCL / MeOH TBR

Received by: (Signature) [Signature] Temp: NSA7 °C Bottles Received: 4.4+0=4.4 59

Received for lab by: (Signature) [Signature] Date: 3/31/23 Time: 800

If preservation required by Login: Date/Time _____

Hold: _____ Condition: NCF / OK



ANALYTICAL REPORT

July 19, 2023

Arcadis - Chevron - NM

Sample Delivery Group: L1633071
Samples Received: 07/07/2023
Project Number: 30155845-0004B
Description: Pardue Farms 27-12
Site: PARDUE FARMS 27-12
Report To: Russell Grant
401 East Main Street
Suite 400
El Paso, TX 79901

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Entire Report Reviewed By:

A handwritten signature in blue ink, appearing to read "Chris McCord".

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 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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	5	
Sr: Sample Results	6	³ Ss
MW-1-W-20230706 L1633071-01	6	
MW-2-W-20230706 L1633071-02	7	⁴ Cn
MW-3-W-20230705 L1633071-03	8	⁵ Sr
MW-6-W-20230705 L1633071-04	9	
MW-7-W-20230705 L1633071-05	10	⁶ Qc
MW-8-W-20230705 L1633071-06	11	
DUP-01-W-20230706 L1633071-07	12	⁷ Gl
EB-W-20230706 L1633071-08	13	⁸ Al
FB-W-20230706 L1633071-09	14	
Qc: Quality Control Summary	15	⁹ Sc
Gravimetric Analysis by Method 2540 C-2011	15	
Wet Chemistry by Method 300.0	20	
Volatile Organic Compounds (GC) by Method 8015/8021/8021B	22	
Semi-Volatile Organic Compounds (GC) by Method 8015M	23	
Gl: Glossary of Terms	25	
Al: Accreditations & Locations	26	
Sc: Sample Chain of Custody	27	

MW-1-W-20230706 L1633071-01 GW

Collected by Daniel McGee
Collected date/time 07/06/23 12:49
Received date/time 07/07/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092845	1	07/11/23 15:53	07/11/23 23:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2095726	100	07/17/23 17:42	07/17/23 17:42	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2092264	1	07/10/23 22:41	07/10/23 22:41	NCC	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2092701	1	07/11/23 16:37	07/12/23 05:59	MAA	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

MW-2-W-20230706 L1633071-02 GW

Collected by Daniel McGee
Collected date/time 07/06/23 11:48
Received date/time 07/07/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2093348	1	07/12/23 12:57	07/12/23 14:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2095726	100	07/17/23 17:57	07/17/23 17:57	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2092264	1	07/10/23 23:03	07/10/23 23:03	NCC	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2092701	1	07/11/23 16:37	07/12/23 06:19	MAA	Mt. Juliet, TN

MW-3-W-20230705 L1633071-03 GW

Collected by Daniel McGee
Collected date/time 07/05/23 16:26
Received date/time 07/07/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092679	1	07/11/23 14:19	07/12/23 10:44	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2095726	100	07/17/23 18:12	07/17/23 18:12	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2092264	1	07/10/23 23:25	07/10/23 23:25	NCC	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2092701	1	07/11/23 16:37	07/12/23 06:40	MAA	Mt. Juliet, TN

MW-6-W-20230705 L1633071-04 GW

Collected by Daniel McGee
Collected date/time 07/05/23 14:40
Received date/time 07/07/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092728	1	07/11/23 14:46	07/11/23 16:28	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2095726	100	07/17/23 18:27	07/17/23 18:27	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2092264	1	07/10/23 23:47	07/10/23 23:47	NCC	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2092701	1	07/11/23 16:37	07/12/23 07:02	MAA	Mt. Juliet, TN

MW-7-W-20230705 L1633071-05 GW

Collected by Daniel McGee
Collected date/time 07/05/23 13:17
Received date/time 07/07/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092031	1	07/10/23 13:34	07/10/23 16:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2096261	100	07/17/23 16:46	07/17/23 16:46	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2092264	1	07/11/23 00:09	07/11/23 00:09	NCC	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2092701	1	07/11/23 16:37	07/12/23 07:23	MAA	Mt. Juliet, TN

MW-8-W-20230705 L1633071-06 GW

Collected by Daniel McGee
Collected date/time 07/05/23 11:55
Received date/time 07/07/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092031	1	07/10/23 13:34	07/10/23 16:20	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2096261	100	07/17/23 17:03	07/17/23 17:03	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2092264	1	07/11/23 00:31	07/11/23 00:31	NCC	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2093113	1	07/12/23 16:56	07/12/23 23:58	DMG	Mt. Juliet, TN

DUP-01-W-20230706 L1633071-07 GW

Collected by Daniel McGee
Collected date/time 07/06/23 00:00
Received date/time 07/07/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092845	1	07/11/23 15:53	07/11/23 23:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2096261	100	07/17/23 17:19	07/17/23 17:19	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2092264	1	07/11/23 00:53	07/11/23 00:53	NCC	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2093113	1	07/12/23 16:56	07/13/23 00:41	DMG	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

EB-W-20230706 L1633071-08 GW

Collected by Daniel McGee
Collected date/time 07/06/23 13:40
Received date/time 07/07/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2092845	1	07/11/23 15:53	07/11/23 23:00	ARD	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG2096261	1	07/17/23 17:36	07/17/23 17:36	GEB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG2092264	1	07/10/23 21:57	07/10/23 21:57	NCC	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2093113	1	07/12/23 16:56	07/13/23 01:03	DMG	Mt. Juliet, TN

FB-W-20230706 L1633071-09 GW

Collected by Daniel McGee
Collected date/time 07/06/23 13:30
Received date/time 07/07/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG2092264	1	07/10/23 21:35	07/10/23 21:35	NCC	Mt. Juliet, TN

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

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	19000		400	1	07/11/2023 23:00	WG2092845

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	7920		37.9	100	100	07/17/2023 17:42	WG2095726

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	1	07/10/2023 22:41	WG2092264
Toluene	U		0.000412	0.00100	1	07/10/2023 22:41	WG2092264
Ethylbenzene	U		0.000160	0.000500	1	07/10/2023 22:41	WG2092264
Total Xylene	U		0.000510	0.00150	1	07/10/2023 22:41	WG2092264
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	07/10/2023 22:41	WG2092264
(S) a,a,a-Trifluorotoluene(FID)	99.4			78.0-120		07/10/2023 22:41	WG2092264
(S) a,a,a-Trifluorotoluene(PID)	103			79.0-125		07/10/2023 22:41	WG2092264

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
C10-C28 Diesel Range	U		0.0222	0.100	1	07/12/2023 05:59	WG2092701
C28-C36 Motor Oil Range	U		0.0118	0.100	1	07/12/2023 05:59	WG2092701
(S) o-Terphenyl	91.1			52.0-156		07/12/2023 05:59	WG2092701

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	14500		200	1	07/12/2023 14:00	WG2093348

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5690		37.9	100	100	07/17/2023 17:57	WG2095726

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	07/10/2023 23:03	WG2092264
Toluene	U		0.000412	0.00100	1	07/10/2023 23:03	WG2092264
Ethylbenzene	U		0.000160	0.000500	1	07/10/2023 23:03	WG2092264
Total Xylene	U		0.000510	0.00150	1	07/10/2023 23:03	WG2092264
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	07/10/2023 23:03	WG2092264
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		07/10/2023 23:03	WG2092264
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		07/10/2023 23:03	WG2092264

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		0.0222	0.100	1	07/12/2023 06:19	WG2092701
C28-C36 Motor Oil Range	U		0.0118	0.100	1	07/12/2023 06:19	WG2092701
(S) o-Terphenyl	93.2			52.0-156		07/12/2023 06:19	WG2092701

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 07/05/23 16:26

L1633071

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	15300		200	1	07/12/2023 10:44	WG2092679

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	6170		37.9	100	100	07/17/2023 18:12	WG2095726

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	07/10/2023 23:25	WG2092264
Toluene	U		0.000412	0.00100	1	07/10/2023 23:25	WG2092264
Ethylbenzene	U		0.000160	0.000500	1	07/10/2023 23:25	WG2092264
Total Xylene	U		0.000510	0.00150	1	07/10/2023 23:25	WG2092264
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	07/10/2023 23:25	WG2092264
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		07/10/2023 23:25	WG2092264
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		07/10/2023 23:25	WG2092264

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		0.0222	0.100	1	07/12/2023 06:40	WG2092701
C28-C36 Motor Oil Range	U		0.0118	0.100	1	07/12/2023 06:40	WG2092701
(S) o-Terphenyl	90.5			52.0-156		07/12/2023 06:40	WG2092701

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	25200		400	1	07/11/2023 16:28	WG2092728

Wet Chemistry by Method 300.0

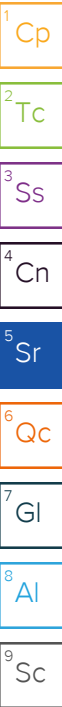
Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	10400		37.9	100	100	07/17/2023 18:27	WG2095726

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	07/10/2023 23:47	WG2092264
Toluene	U		0.000412	0.00100	1	07/10/2023 23:47	WG2092264
Ethylbenzene	U		0.000160	0.000500	1	07/10/2023 23:47	WG2092264
Total Xylene	U		0.000510	0.00150	1	07/10/2023 23:47	WG2092264
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	07/10/2023 23:47	WG2092264
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		07/10/2023 23:47	WG2092264
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		07/10/2023 23:47	WG2092264

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		0.0222	0.100	1	07/12/2023 07:02	WG2092701
C28-C36 Motor Oil Range	0.122		0.0118	0.100	1	07/12/2023 07:02	WG2092701
(S) o-Terphenyl	118			52.0-156		07/12/2023 07:02	WG2092701



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	9980		200	1	07/10/2023 16:20	WG2092031

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	4980		37.9	100	100	07/17/2023 16:46	WG2096261

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	07/11/2023 00:09	WG2092264
Toluene	U		0.000412	0.00100	1	07/11/2023 00:09	WG2092264
Ethylbenzene	U		0.000160	0.000500	1	07/11/2023 00:09	WG2092264
Total Xylene	U		0.000510	0.00150	1	07/11/2023 00:09	WG2092264
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	07/11/2023 00:09	WG2092264
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		07/11/2023 00:09	WG2092264
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		07/11/2023 00:09	WG2092264

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		0.0222	0.100	1	07/12/2023 07:23	WG2092701
C28-C36 Motor Oil Range	U		0.0118	0.100	1	07/12/2023 07:23	WG2092701
(S) o-Terphenyl	92.6			52.0-156		07/12/2023 07:23	WG2092701

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Collected date/time: 07/05/23 11:55

L1633071

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	12300		200	1	07/10/2023 16:20	WG2092031

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5360		37.9	100	100	07/17/2023 17:03	WG2096261

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	07/11/2023 00:31	WG2092264
Toluene	U		0.000412	0.00100	1	07/11/2023 00:31	WG2092264
Ethylbenzene	U		0.000160	0.000500	1	07/11/2023 00:31	WG2092264
Total Xylene	U		0.000510	0.00150	1	07/11/2023 00:31	WG2092264
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	07/11/2023 00:31	WG2092264
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		07/11/2023 00:31	WG2092264
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		07/11/2023 00:31	WG2092264

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.12		0.0222	0.100	1	07/12/2023 23:58	WG2093113
C28-C36 Motor Oil Range	U		0.0118	0.100	1	07/12/2023 23:58	WG2093113
(S) o-Terphenyl	96.3			52.0-156		07/12/2023 23:58	WG2093113

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

DUP 01 W 20230708
Collected date/time: 07/06/23 00:00

L1633071

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	13800		200	1	07/11/2023 23:00	WG2092845

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	5570		37.9	100	100	07/17/2023 17:19	WG2096261

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	07/11/2023 00:53	WG2092264
Toluene	U		0.000412	0.00100	1	07/11/2023 00:53	WG2092264
Ethylbenzene	U		0.000160	0.000500	1	07/11/2023 00:53	WG2092264
Total Xylene	U		0.000510	0.00150	1	07/11/2023 00:53	WG2092264
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	07/11/2023 00:53	WG2092264
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		07/11/2023 00:53	WG2092264
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		07/11/2023 00:53	WG2092264

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		0.0222	0.100	1	07/13/2023 00:41	WG2093113
C28-C36 Motor Oil Range	U		0.0118	0.100	1	07/13/2023 00:41	WG2093113
(S) o-Terphenyl	87.4			52.0-156		07/13/2023 00:41	WG2093113

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Dissolved Solids	ND		10.0	1	07/11/2023 23:00	WG2092845

Wet Chemistry by Method 300.0

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	0.491	B J	0.379	1.00	1	07/17/2023 17:36	WG2096261

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	07/10/2023 21:57	WG2092264
Toluene	U		0.000412	0.00100	1	07/10/2023 21:57	WG2092264
Ethylbenzene	U		0.000160	0.000500	1	07/10/2023 21:57	WG2092264
Total Xylene	U		0.000510	0.00150	1	07/10/2023 21:57	WG2092264
TPH (GC/FID) Low Fraction	0.0335	B J	0.0314	0.100	1	07/10/2023 21:57	WG2092264
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120		07/10/2023 21:57	WG2092264
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		07/10/2023 21:57	WG2092264

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		0.0222	0.100	1	07/13/2023 01:03	WG2093113
C28-C36 Motor Oil Range	U		0.0118	0.100	1	07/13/2023 01:03	WG2093113
(S) o-Terphenyl	90.5			52.0-156		07/13/2023 01:03	WG2093113

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 07/06/23 13:30

L1633071

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	1	07/10/2023 21:35	WG2092264
Toluene	U		0.000412	0.00100	1	07/10/2023 21:35	WG2092264
Ethylbenzene	U		0.000160	0.000500	1	07/10/2023 21:35	WG2092264
Total Xylene	U		0.000510	0.00150	1	07/10/2023 21:35	WG2092264
(S) a,a,a-Trifluorotoluene(PID)	105			79.0-125		07/10/2023 21:35	WG2092264

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3948400-1 07/10/23 16:20

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

L1632964-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-04 07/10/23 16:20 • (DUP) R3948400-3 07/10/23 16:20

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	294	300	1	2.02		5

L1632964-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-19 07/10/23 16:20 • (DUP) R3948400-4 07/10/23 16:20

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	286	286	1	0.000		5

Laboratory Control Sample (LCS)

(LCS) R3948400-2 07/10/23 16:20

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8530	96.9	77.3-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

[L1633071-03](#)

Method Blank (MB)

(MB) R3948715-1 07/12/23 10:44

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1632357-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1632357-01 07/12/23 10:44 • (DUP) R3948715-3 07/12/23 10:44

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	833	848	1	1.75		5

L1632465-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1632465-06 07/12/23 10:44 • (DUP) R3948715-4 07/12/23 10:44

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	450	446	1	0.893		5

Laboratory Control Sample (LCS)

(LCS) R3948715-2 07/12/23 10:44

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8470	96.3	77.3-123	

Gravimetric Analysis by Method 2540 C-2011 [L1633071-04](#)

Method Blank (MB)

(MB) R3948641-1 07/11/23 16:28

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1632465-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1632465-05 07/11/23 16:28 • (DUP) R3948641-3 07/11/23 16:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	595	612	1	2.87		5

L1632465-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1632465-07 07/11/23 16:28 • (DUP) R3948641-4 07/11/23 16:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	1190	1260	1	5.55	<u>J3</u>	5

Laboratory Control Sample (LCS)

(LCS) R3948641-2 07/11/23 16:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Dissolved Solids	8800	8530	96.9	77.3-123	

Gravimetric Analysis by Method 2540 C-2011

[L1633071-01,07,08](#)

Method Blank (MB)

(MB) R3948630-1 07/11/23 23:00

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1632954-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1632954-07 07/11/23 23:00 • (DUP) R3948630-3 07/11/23 23:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	795	765	1	3.76		5

L1632964-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1632964-09 07/11/23 23:00 • (DUP) R3948630-4 07/11/23 23:00

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits %
Dissolved Solids	358	363	1	1.39		5

Laboratory Control Sample (LCS)

(LCS) R3948630-2 07/11/23 23:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Dissolved Solids	8800	8440	95.9	77.3-123	

Method Blank (MB)

(MB) R3948623-1 07/12/23 14:00

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Dissolved Solids	U		10.0	10.0

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633385-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1633385-04 07/12/23 14:00 • (DUP) R3948623-3 07/12/23 14:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	1200	1190	1	1.51		5

L1633529-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1633529-01 07/12/23 14:00 • (DUP) R3948623-4 07/12/23 14:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Dissolved Solids	302	325	1	7.34	<u>J3</u>	5

Laboratory Control Sample (LCS)

(LCS) R3948623-2 07/12/23 14:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/l	mg/l	%	%	
Dissolved Solids	8800	8540	97.0	77.3-123	

Wet Chemistry by Method 300.0

L1633071-01,02,03,04

Method Blank (MB)

(MB) R3949782-1 07/17/23 09:55

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00

L1633148-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1633148-04 07/17/23 14:29 • (DUP) R3949782-3 07/17/23 14:44

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	90.4	90.4	1	0.0470		20

L1633196-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1633196-06 07/17/23 20:56 • (DUP) R3949782-6 07/17/23 21:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	15.1	15.1	1	0.192		20

Laboratory Control Sample (LCS)

(LCS) R3949782-2 07/17/23 10:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.1	100	90.0-110	

L1633148-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633148-04 07/17/23 14:29 • (MS) R3949782-4 07/17/23 14:59 • (MSD) R3949782-5 07/17/23 15:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	90.4	135	135	89.3	89.5	1	80.0-120			0.0643	20

L1633196-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633196-06 07/17/23 20:56 • (MS) R3949782-7 07/17/23 21:25 • (MSD) R3949782-8 07/17/23 21:40

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	15.1	63.7	64.1	97.1	97.8	1	80.0-120			0.619	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3949873-1 07/17/23 09:52

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	0.418	⬇	0.379	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1633071-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1633071-08 07/17/23 17:36 • (DUP) R3949873-3 07/17/23 17:52

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	0.491	0.469	1	4.56	⬇	20

L1633432-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1633432-02 07/17/23 21:59 • (DUP) R3949873-6 07/17/23 22:16

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	4.09	4.07	1	0.608		20

Laboratory Control Sample (LCS)

(LCS) R3949873-2 07/17/23 10:08

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	40.1	100	90.0-110	

L1633071-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1633071-08 07/17/23 17:36 • (MS) R3949873-4 07/17/23 18:42 • (MSD) R3949873-5 07/17/23 18:58

	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	0.491	50.1	49.9	99.2	98.9	1	80.0-120			0.354	20

L1633432-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1633432-02 07/17/23 21:59 • (MS) R3949873-7 07/17/23 22:32

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	4.09	54.6	101	1	80.0-120	

Volatile Organic Compounds (GC) by Method 8015/8021/8021B

L1633071-01,02,03,04,05,06,07,08,09

Method Blank (MB)

(MB) R3948463-3 07/10/23 20:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL 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
TPH (GC/FID) Low Fraction	0.0362	⬇	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	101			78.0-120
(S) a,a,a-Trifluorotoluene(PID)	106			79.0-125

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3948463-1 07/10/23 19:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0501	100	77.0-122	
Toluene	0.0500	0.0483	96.6	80.0-121	
Ethylbenzene	0.0500	0.0513	103	80.0-123	
Total Xylene	0.150	0.149	99.3	47.0-154	
(S) a,a,a-Trifluorotoluene(FID)			101	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			104	79.0-125	

Laboratory Control Sample (LCS)

(LCS) R3948463-2 07/10/23 20:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.27	95.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			108	78.0-120	
(S) a,a,a-Trifluorotoluene(PID)			110	79.0-125	

Semi-Volatile Organic Compounds (GC) by Method 8015M

L1633071-01,02,03,04,05

Method Blank (MB)

(MB) R3947684-1 07/11/23 23:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C10-C28 Diesel Range	U		0.0222	0.100
C28-C36 Motor Oil Range	U		0.0118	0.100
(S) o-Terphenyl	90.0			52.0-156

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Laboratory Control Sample (LCS)

(LCS) R3947684-2 07/11/23 23:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	1.50	1.42	94.7	50.0-150	
(S) o-Terphenyl			94.0	52.0-156	

L1632881-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1632881-06 07/12/23 01:43 • (MS) R3947684-3 07/12/23 02:04 • (MSD) R3947684-4 07/12/23 02:25

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	1.43	U	1.38	1.34	96.5	93.7	1	50.0-150			2.94	20
(S) o-Terphenyl					93.2	92.6		52.0-156				

Semi-Volatile Organic Compounds (GC) by Method 8015M [L1633071-06,07,08](#)

Method Blank (MB)

(MB) R3947999-1 07/12/23 22:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
C10-C28 Diesel Range	U		0.0222	0.100
C28-C36 Motor Oil Range	U		0.0118	0.100
(S) o-Terphenyl	82.0			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3947999-2 07/12/23 22:52 • (LCSD) R3947999-3 07/12/23 23:14

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	1.50	1.59	1.72	106	115	50.0-150			7.85	20
(S) o-Terphenyl				96.5	98.5	52.0-156				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	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.

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Billing Information:

Accounts Payable
401 East Main Street
Suite 400
El Paso, TX 79901

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 292 of 293

Arcadis - Chevron - NM

401 East Main Street
Suite 400
El Paso, TX 79901

Report to:
Russell Grant

Email To:
russell.grant@arcadis.com; lydia.velezgonzalez@

Project Description:
Pardue Farms 27-12

City/State
Collected: *Loving, NM*

Please Circle:
PT MT ☒ ET

Phone: 432-227-0266

Client Project #
30093248-0004B
30153845

Lab Project #
CHEVARCNM-PARDUE

Collected by (print):
Daniel Mcbee

Site/Facility ID #
PARDUE FARMS 27-12

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

☐ Same Day ☐ Five Day
☐ Next Day ☐ 5 Day (Rad Only)
☐ Two Day ☐ 10 Day (Rad Only)
☐ Three Day

Quote #

Date Results Needed
Standard

Immediately
Packed on Ice N ☐ Y ☒

No.
of
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts	BTEX 40ml/Amb-HCl	BTEXGRO 40ml/Amb-HCl	CHLORIDE 125mlHDPE-NoPres	DRONMLVI 40ml/Amb-HCl-BT	TDS 250mlHDPE NoPres							
MW-1-W-20230706	G	GW		7-6-23	1249	7		X	X	X	X							-01
MW-2-W-20230706		GW		7-6-23	1148	7		X	X	X	X							-02
MW-3-W-20230705		GW		7-5-23	1626	7		X	X	X	X							-03
MW-6-W-20230705		GW			1440	7		X	X	X	X							-04
MW-7-W-20230705		GW			1317	7		X	X	X	X							-05
MW-8-W-20230705		GW		7-5-23	1155	7		X	X	X	X							-06
DUP-01-W-20230706		GW		7-6-23		7		X	X	X	X							-07
EB-W-20230706		GW			1340	7		X	X	X	X							-08
FB-W-20230706	G	GW		7-6-23	1330	3	X											-09

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier

Tracking # **526 9040 5652 0002**

Relinquished by: (Signature)
[Signature]

Date:
7-6-23

Time:
1650

Received by: (Signature)
[Signature]

Trip Blank Received: Yes / No
HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: *66.0C* Bottles Received: *59*
4.1 to 4.1

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)
GRACE BARRON

Date: *7.7.23* Time: *0800*

Hold:

Condition:
NCF / ☒ OK



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG #

C147

Acctnum: CHEVARCNM

Template: T227223

Prelogin: P1009088

PM: 526 - Chris McCord

PB: *BW 1/27*

Shipped Via: FedEX Ground

Remarks

Sample # (lab only)

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N
 COC Signed/Accurate: ☒ Y ☐ N
 Bottles arrive intact: ☒ Y ☐ N
 Correct bottles used: ☒ Y ☐ N
 Sufficient volume sent: ☒ Y ☐ N
 If Applicable
 VOA Zero Headspace: ☐ Y ☐ N
 Preservation Correct/Checked: ☐ Y ☐ N
 RAD Screen <0.5 mR/hr: ☒ Y ☐ N

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 395121

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 395121
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the Pardue Farms 27-12 Well Site 2024 Site Assessment Work Plan is approved and satisfactory with the following conditions of approval: 1. Conduct Task1 and 2. Utility Locate as planned in report, and carry out Project Management and coordination. 3. Conduct Soil Boring delineation as planned in work plan and report results to OCD. 4. Conduct plans as prescribed in Task 4, Groundwater Monitoring with semi-annual groundwater monitoring events as scheduled for BTEX, TPH, and chloride. 5. Please submit results and the groundwater monitoring report to OCD via the online portal by April 1 2025.	1/30/2025