



February 12, 2021

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Deferral Request
ConocoPhillips
Vacuum Abo Battery #4 Trunkline Release
Unit Letter D, Section 35, Township 17 South, Range 35 East
Lea County, New Mexico
1RP-3714
Incident ID nTO1518757703**

Dear Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to evaluate and assess a release that occurred from a trunk line located at the Vacuum Abo Battery #4, in Lea County, New Mexico (Site). The initial C-141 inaccurately states the release occurred in the Public Land System Survey (PLSS) Unit Letter F, Section 5, Township 18 South, and Range 35 East at coordinates 32.7779083°, -103.4816513°. This ULSTR location corresponds to the well listed on the C-141 (API No. 30-025-26931).

According to information provided by COP, the release occurred in the vicinity of the Vacuum Abo Battery #4, located approximately 3 miles northeast of the coordinates provided in the C-141, in the PLSS Unit Letter D, Section 35, Township 17 South, Range 35 East. The approximate location of the release point is within the caliche pad located south of the Vacuum Abo Battery #4 at 32.798294°, -103.434623°. The site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on July 6, 2015. Approximately 1 barrel (bbl) of oil and 22.23 bbls of produced water were released from a trunk line leak at the Vacuum Abo Battery #4. The release originated on the caliche pad and flowed north into the bar ditch south of County Road (CR) 50 before spilling out onto the road. Immediate response action taken was to shut down wells and the Vacuum Abo Battery #4 facility and close the valve to the trunk line, effectively stopping the release. Approximately 5 barrels of produced water were recovered using a vacuum truck. COP covered the highway with base course material to soak up the released fluids that traveled onto the road, then scraped the visually impacted material and backfilled the scraped area. The New Mexico Oil Conservation District (NMOCD) was notified later the same day, and the release was subsequently assigned the Remediation Permit (RP) number 1RP-3714 and Incident ID nTO1518757703.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The Site is in an area with low karst potential.

Tetra Tech

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Deferral Request
February 12, 2021

ConocoPhillips

According to the New Mexico Office of the State Engineer (NMOSE) well database, there are four (4) wells listed within an 800-meter (approximately ½-mile) radius of the Site on the New Mexico Office of the State Engineer's (NMOSE) website. The average depth to water is 68 feet (ft) below ground surface (bgs). The site characterization data are provided in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

CONSTITUENT	RRAL
Chloride (0-4 ft bgs)	600 mg/kg
Chloride (>4 ft bgs)	10,000 mg/kg
TPH (GRO + DRO + ORO) (0-4 ft bgs)	100 mg/kg
TPH (GRO + DRO + ORO) (>4 ft bgs)	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

INITIAL SITE ASSESSMENT AND ADDITIONAL RELEASE INFORMATION

A Corrective Action Plan (CAP) dated May 24, 2016 to address the release was submitted to and approved by the NMOCD (Appendix C) by Basin Environmental Service Technologies (Basin). According to the CAP, on July 6, 2015, personnel from Basin went onsite to assess the release on behalf of COP. On May 3, 2016, Basin collected samples from five points (Verticals 1 through 5) within the release area footprint (Figure 4). The samples were field tested for salinity and organic vapors, and select samples were sent to Cardinal Laboratories in Hobbs, NM for analysis. Laboratory analytical results are included in Appendix B of the CAP (Appendix C).

The results of the field screening and analytical results are summarized in Table 1. Salinity screening results were elevated in surface soils at all locations and decreased with depth. The terminal depth samples from each location, ranging from 6 inches to 5 ft, were selected for laboratory analysis to confirm vertical delineation of the release. Analytical results associated with the terminal depth samples were below Site RRALs for all constituents at all locations, and vertical delineation was achieved.

A second release, assigned the RP number 1RP-4310, occurred on June 11, 2016 shortly following the completion of the CAP. The footprint of the second release (1RP-4310) closely matched the footprint of the initial release (1RP-3714), although the 1RP-4310 release extended further to the west on the lease pad and did not travel as far to the east in the road ditch. According to available information, further assessment work was not conducted following the second release before these proposed remediation activities commenced.

2016 REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

Based on the May 2016 soil assessment results and in accordance with the approved CAP, excavation activities progressed in July 2016. COP scraped the release extent on the lease pad to a depth of 6 inches below ground surface (bgs). Additionally, the release area footprint around Vertical 1 was excavated down to 2.5 ft bgs, and the release area footprint around Vertical 2 was excavated to 3.5 ft bgs. In the interest of safety, COP kept the excavation more than 5 ft from buried lines. A map created by Basin that shows the 1RP-3714 and 1RP-4310 release extents (identified as "AD #1 Stain" and "AD #2 Stain," respectively) and the excavated areas is presented in Appendix D.

Deferral Request
February 12, 2021

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Four confirmation samples were collected from the floor of the excavated areas and sent to Cardinal Laboratories to be analyzed for TPH and chlorides. The analytical results associated with point 3 (2.5 ft bgs) and at point 4 (6 inches bgs) exceeded the reclamation RRAL for chloride of 600 mg/kg, however, these impacted surface areas occur on a developed pad storage site. Based on the site characterization, the analytical results associated with these confirmation samples meet the standards of Table I of 19.15.29.12 NMAC for chloride and TPH. Although analysis for BTEX was not conducted, based on the TPH values, it is a safe assumption that the BTEX concentrations in these locations would be below the applicable RRALs. The laboratory analytical report is included in Appendix E, and confirmation sampling results are included in Table 2. Sample locations are included in the Basin map in Appendix D. The excavated areas were backfilled after confirmation samples were collected.

ADDITIONAL SITE ASSESSMENT

In October 2020 Tetra Tech was onsite on behalf of ConocoPhillips to conduct additional assessment activities in order to complete horizontal and vertical delineation of the documented releases at the Site. As there are multiple releases associated with this Site, the assessment and characterization activities were grouped together for expediency. A total of twelve (12) borings were installed using a combination of methods. Six borings were completed using an air rotary drilling rig (BH-1, -2, -3, -7, -9, and -10) and six were completed via hand auger (BH-5, -6, -11, -12, -13, and -14). Three borings (BH-1 through BH-3) were installed within the interior of the individual release extents to achieve vertical delineation of the releases. Boring locations BH-1 and BH-3 were each installed to a depth of 20 ft bgs, while BH-2 was installed to 40 ft bgs, based on field soil screening results. BH-2 is the vertical delineation point for the 1RP-3714 release.

The nine remaining borings (B-5, -6, -7, and -9 through -14) were installed to various depths on the perimeter of the release to the north, south, east, and west to confirm horizontal delineation of the release footprint. Boring logs, included as Appendix F, present soil descriptions, sample depths, and field screening data from the October 2020 assessment activities. Figure 4 depicts the release extent, excavated areas and the October 2020 soil boring locations.

A total of forty-eight (48) samples were collected from the twelve borings and submitted to Pace Analytical National Center for Testing & Innovation in Nashville, Tennessee to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

SUMMARY OF SAMPLING RESULTS

Results from the October 2020 soil sampling event are summarized in Table 3. Analytical results associated with boring locations BH-1 (0-1 ft bgs), BH-2 (0-3 ft bgs), and BH-3 (0-3 ft bgs) exceeded the reclamation RRAL (0-4 ft bgs) of 600 mg/kg for chlorides. However, each of these boring locations were inside the footprint of impacted surface areas on the existing developed caliche pad. The pad is needed for production operations. Analytical results associated with the 0-1 ft bgs interval at on-pad borings BH-3 and at BH-7 exceeded the reclamation RRAL (0-4 ft bgs) for TPH (100 mg/kg). These areas are also on-pad in an active production site. There were no analytical results which exceeded the Site RRALs for soils deeper than 4 feet bgs for chlorides (10,000 mg/kg) or TPH (2,500 mg/kg). The remainder of analytical results associated with the samples collected were below Site RRALs for all constituents. The analytical results associated with all samples analyzed were below the BTEX Site RRAL of 50 mg/kg.

Analytical sampling results that exceeded Site RRALs are from borings located on the Vacuum Abo Battery #4 lease pad. All samples collected from borings located in off-site pasture areas had analytical results below Site RRALs. Therefore, both horizontal and vertical delineation was achieved during the October 2020 soil assessment activities.

Deferral Request
February 12, 2021

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CONCLUSION

ConocoPhillips respectfully requests that NMOCD will consider delaying remediation activities at the Site until the end of life of the battery. At the time of abandonment, retrofit, or inactivity, remediation will be completed in addition to reclamation. After the initial assessment activities conducted at the Site in 2015, the remedial activities in 2016, and the additional assessment in 2020, the contamination remaining in place is determined to be limited to surface soils in on-pad locations in active oil and gas production areas. As such, these soils are not currently subject to reclamation RRALs, and analytical results are below the RRALs for chloride (10,000 mg/kg) and TPH (2,500 mg/kg).

Therefore, the release does not cause an imminent risk to human health, the environment, or groundwater. Although the 2016 CAP was approved, active operations and an abundance of energized subsurface lines at the Vacuum Abo Battery #4 did not allow for complete remediation of the release footprint. Site assessment activities from 2020 achieved horizontal and vertical delineation to the Site-specific RRALs established according to the site characterization. Final remediation and reclamation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations. The C-141 form deferral request form is enclosed in Attachment A.

If you have any questions or comments concerning the assessments or the deferral request for this site, please call me at (512) 338-2861 or Greg at (432) 682-4559.

Sincerely,

Tetra Tech, Inc.



Christian M. Llull, P.G.
Project Manager



Greg W. Pope, P.G.
Program Manager

cc:

Mr. Marvin Soriwei, RMR – ConocoPhillips

Mr. Charles Beauvais, GPBU - ConocoPhillips

Deferral Request
February 12, 2021

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LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent
- Figure 4 – Additional Site Assessment

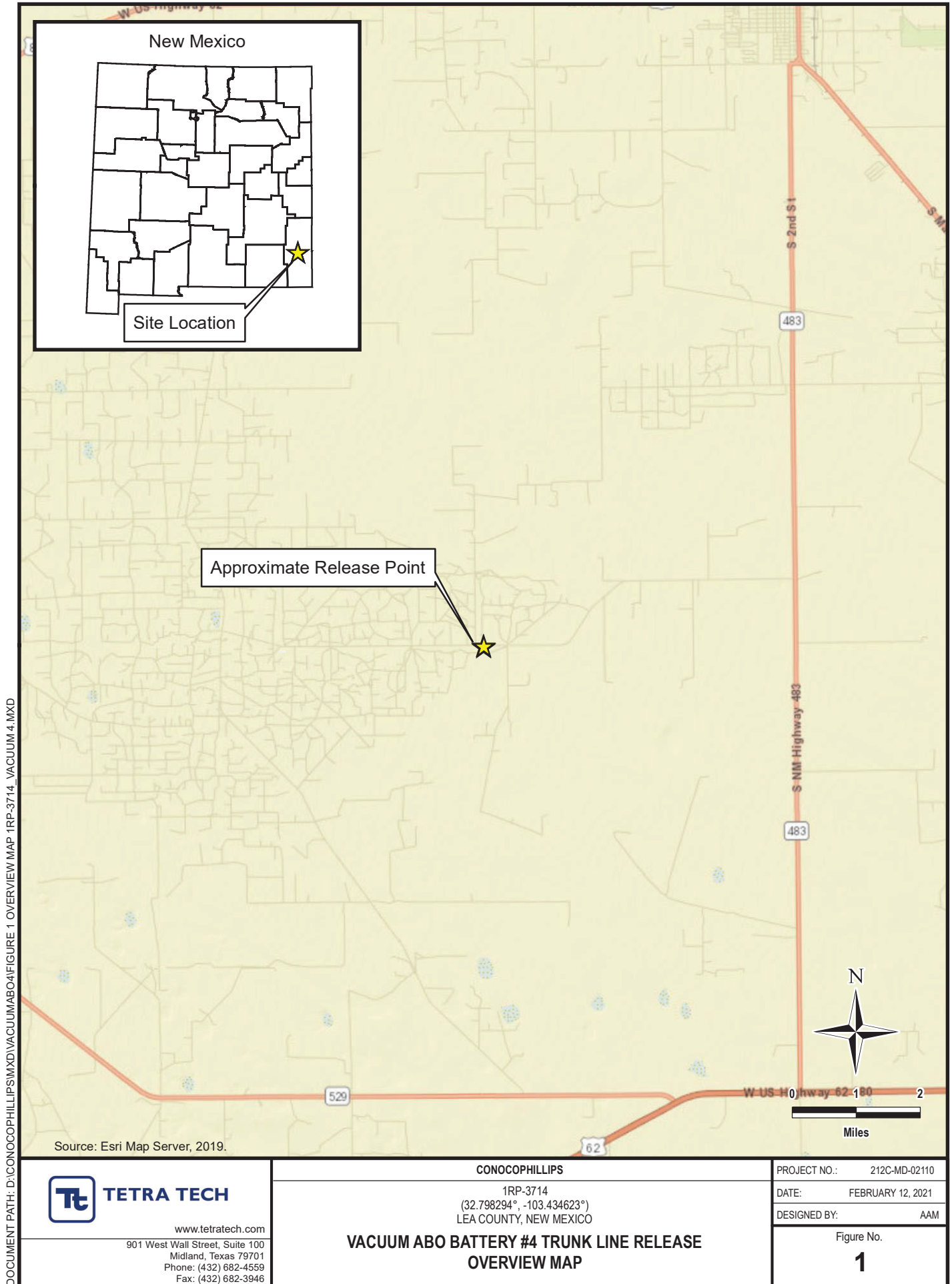
Tables:

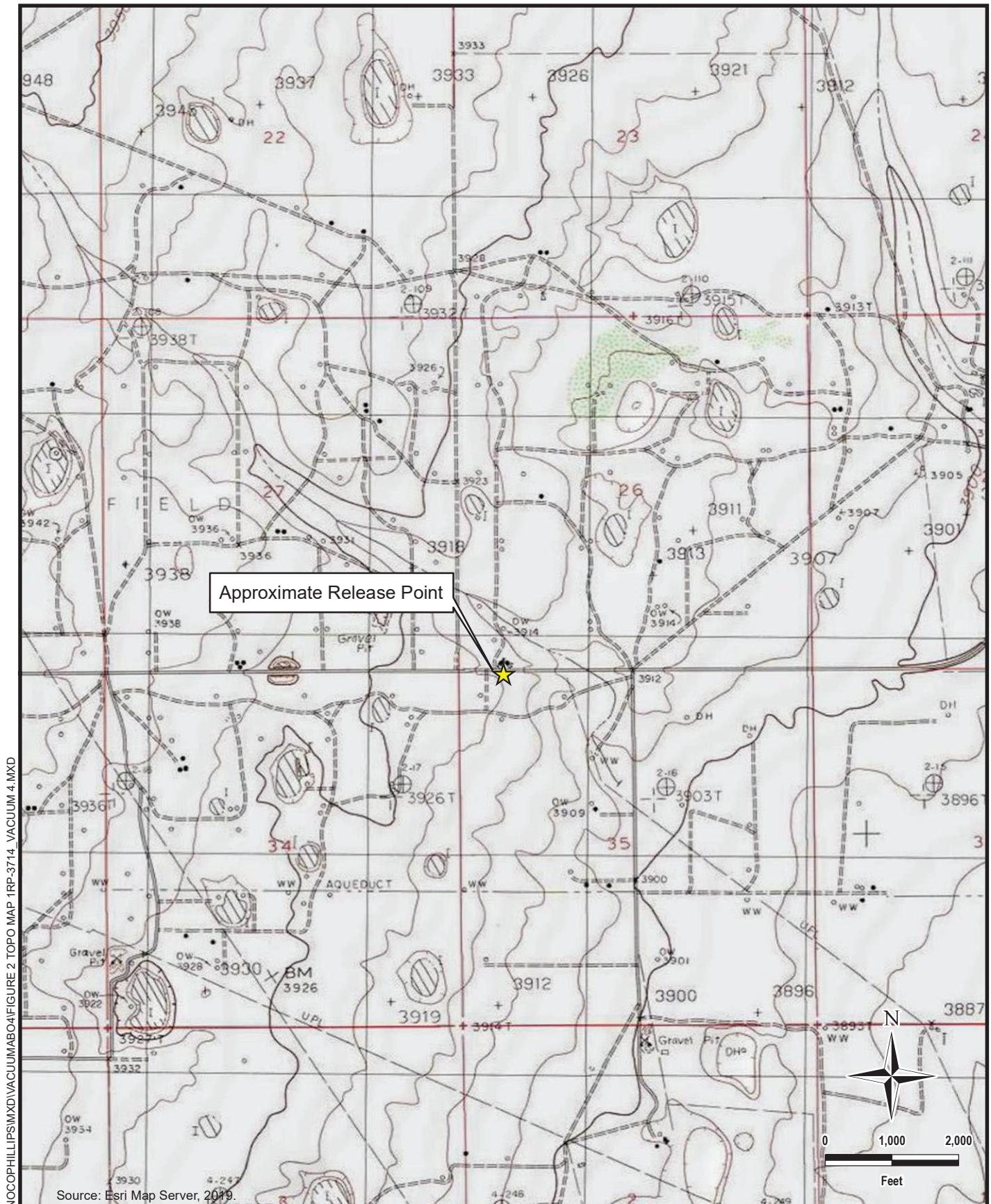
- Table 1 – Summary of Analytical Results – Initial Soil Assessment
- Table 2 – Summary of Analytical Results – Confirmation Sampling
- Table 3 – Summary of Analytical Results – Additional Soil Assessment

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Corrective Action Plan (May 24, 2016)
- Appendix D – Basin Excavation Map
- Appendix E – Laboratory Analytical Data
- Appendix F – Boring Logs

FIGURES





DOCUMENT PATH: D:\CONOCOPHILLIPS\MD\FIGURE 2 TOPO MAP 1RP-3714_VACUUM 4.MXD


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CONOCOPHILLIPS

 1RP-3714
 (32.798294°, -103.434623°)
 LEA COUNTY, NEW MEXICO

**VACUUM ABO BATTERY #4 TRUNK LINE RELEASE
 TOPOGRAPHIC MAP**

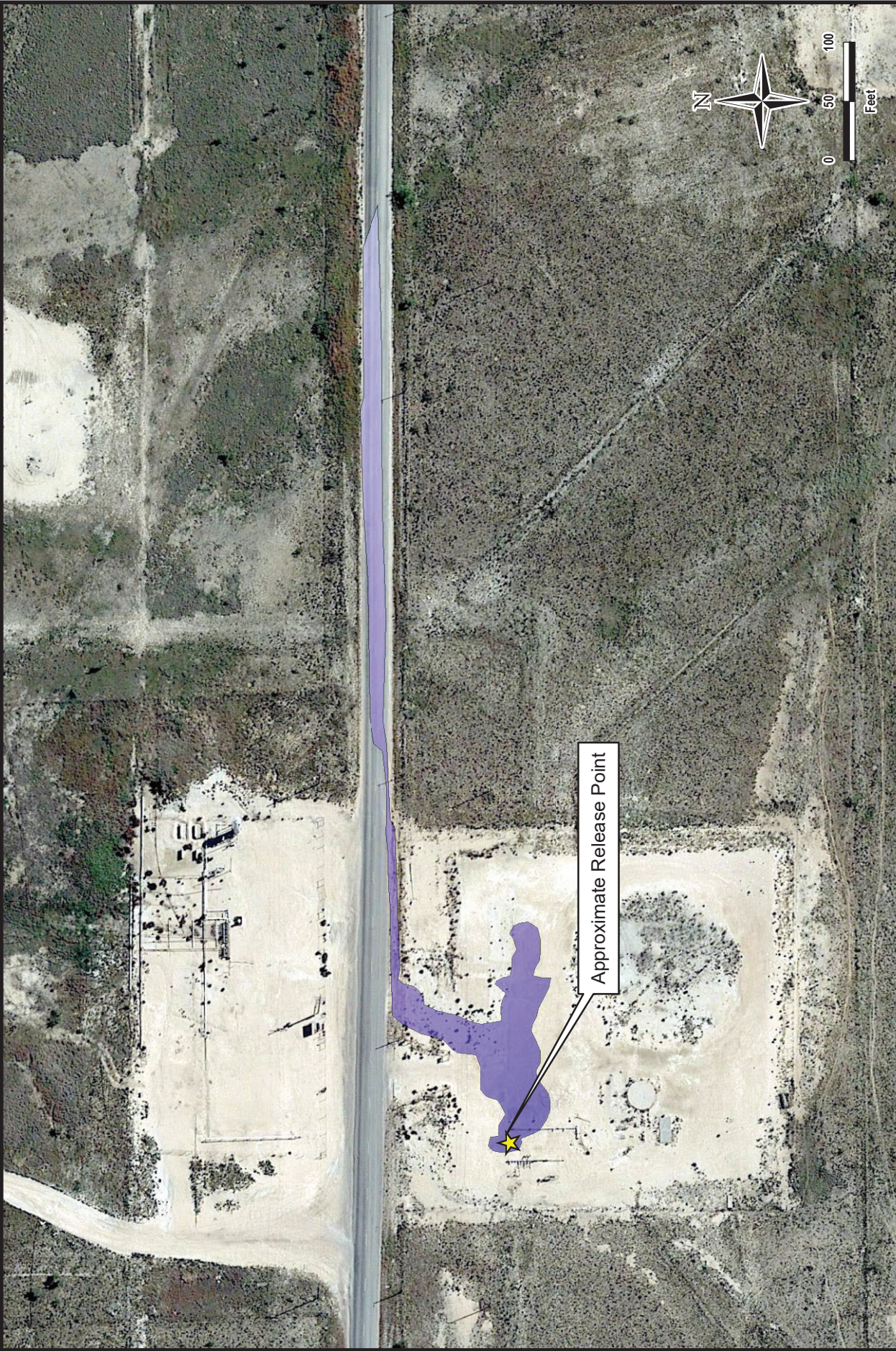
PROJECT NO.: 212C-MD-02110



DATE: FEBRUARY 12, 2021

DESIGNED BY: AAM

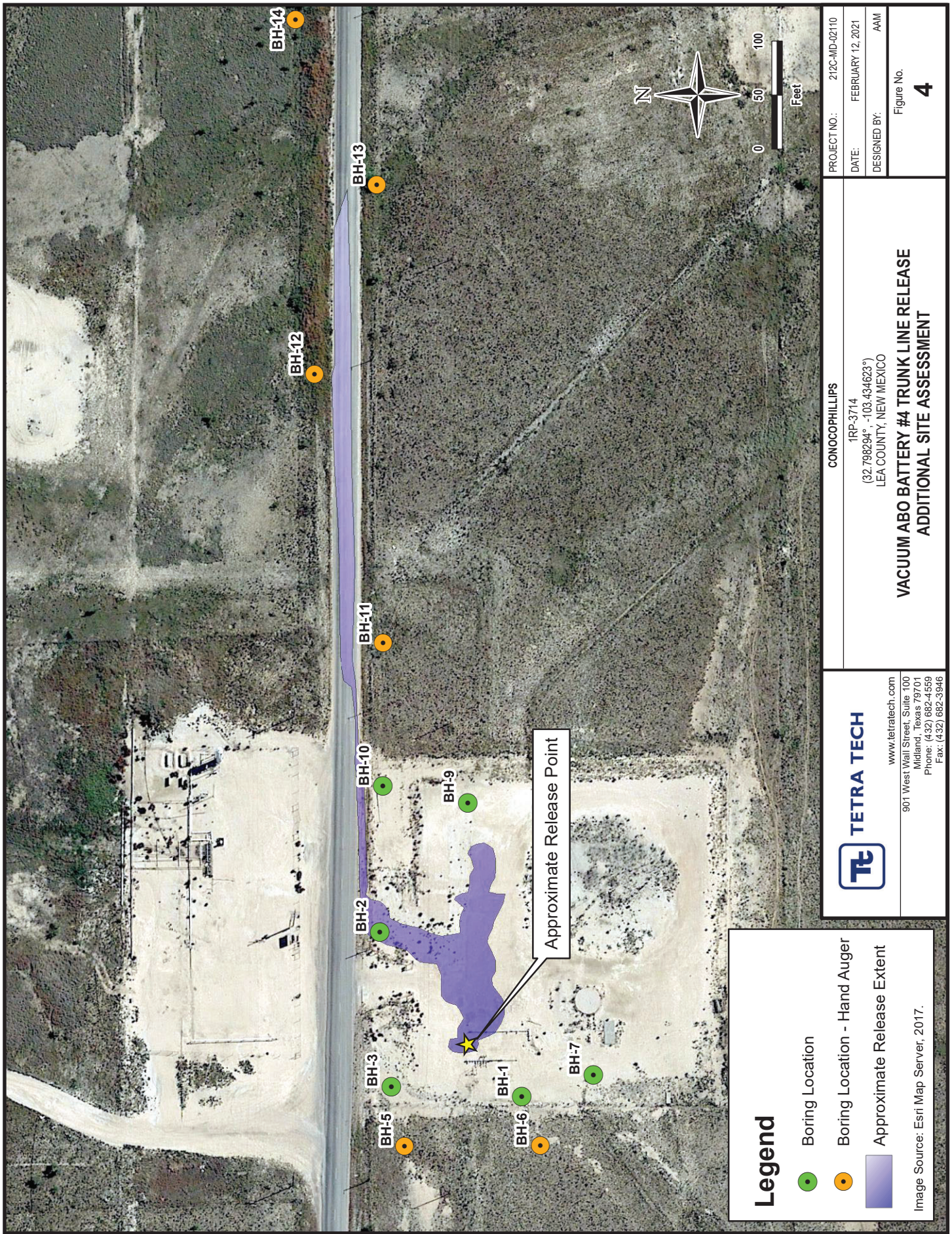
Figure No.

2



Legend  Approximate Release Extent Image Source: Esri Map Server, 2017.	TETRA TECH  www.tetratech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 662-4559 Fax: (432) 662-3946	CONOCOPHILLIPS 1RP-3714 (32.798294°, -103.434623°) LEA COUNTY, NEW MEXICO	VACUUM ABO BATTERY #4 TRUNK LINE RELEASE APPROXIMATE RELEASE EXTENT
		PROJECT NO.: 212C-MD-02110 DATE: FEBRUARY 12, 2021 DESIGNED BY: AAM Figure No. 3	

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WACUUMABO4\FIGURE 3 RELEASE MAP 1RP-3714 VACUUM 4.MXD



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TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
INITIAL SOIL ASSESSMENT
CONOCOPHILLIPS
VACUUM ABO BATTERY #4 TRUNK LINE RELEASE
1RP-3714
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride ¹		TPH ²					
			PID*	Chlorides*			GRO		DRO		TPH	
		C ₆ - C ₁₀			>C ₁₀ - C ₂₈		C ₆ - C ₂₈					
		ft. bgs	ppm	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Vertical 1	5/17/2016	0.5	0.1	2877	NS		NS		NS		NS	
		1	1.1	2514	NS		NS		NS		NS	
		1.5	0.1	2129	NS		NS		NS		NS	
		2	0.1	1540	NS		NS		NS		NS	
		2.5	1	1238	NS		NS		NS		NS	
		3	0.6	732	NS		NS		NS		NS	
		3.5	0.7	734	NS		NS		NS		NS	
		4	5.4	NR	80.0		< 10.0		131		131	
Vertical 2	5/17/2016	0.5	0	2161	NS		NS		NS		NS	
		1	1.1	1727	NS		NS		NS		NS	
		1.5	1.7	1486	NS		NS		NS		NS	
		2	0.6	1702	NS		NS		NS		NS	
		2.5	1	1669	NS		NS		NS		NS	
		3	1.1	1927	NS		NS		NS		NS	
		3.5	0.7	2039	NS		NS		NS		NS	
		4	0.6	855	NS		NS		NS		NS	
		4.5	4.6	886	NS		NS		NS		NS	
		5	3.6	NR	80.0		< 10.0		138		138	
Vertical 3	5/17/2016	SURFACE	0	23346	NS		NS		NS		NS	
		0.5	0	2622	NS		NS		NS		NS	
		1	NR	730	NS		NS		NS		NS	
		1.5	NR	358	NS		NS		NS		NS	
		2	NR	NR	144		< 10.0		90.7		90.7	
Vertical 4	5/4/2016	SURFACE	6.2	520	NS		NS		NS		NS	
		0.5	17	NR	160		< 10.0		35.6		35.6	
Vertical 5	5/4/2016	SURFACE	6.1	173	NS		NS		NS		NS	
		0.5	29.5	NR	< 16.0		< 10.0		< 10.0		-	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline Range Organics

DRO Diesel Range Organics

NR Not Reported

NS Not Sampled

1 Method SM4500Cl-B

2 Method 8015M

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING
CONOCOPHILLIPS
VACUUM ABO BATTERY #4 TRUNK LINE RELEASE
1RP-3714
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth ft. bgs	Chloride ¹ mg/kg Q		TPH ²			
					GRO	DRO		TPH
					C ₆ - C ₁₀ mg/kg Q	>C ₁₀ - C ₂₈ mg/kg Q		C ₆ - C ₂₈ mg/kg
PT.1 EXC @ 3.5'	7/22/2016	3.5	224		< 10.0	< 10.0		-
PT.2 EXC @ 3.5'	7/22/2016	3.5	592		< 10.0	< 10.0		-
PT.3 EXC @ 2.5'	7/22/2016	2.5	736		< 10.0	< 10.0		-
PT.4 EXC @ 0.5'	7/22/2016	0.5	768		< 10.0	14.8		14.8

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline Range Organics

DRO Diesel Range Organics

Bold and italicized values indicate exceedance of proposed RRALS

1 Method SM4500Cl-B

2 Method 8015M

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT
CONOCOPHILLIPS
VACUUM ABO BATTERY #4 TRUNKLINE RELEASE
1RP-3714
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval ft. bgs	Field Screening Results		Chloride ¹		BTX ²						TPH ³						
			Total BTEX	Total Xylenes			Ethylbenzene		Toluene		Benzene		GRO ⁴ C ₅ -C ₁₀ mg/kg	DRO C ₁₀ -C ₂₈ mg/kg	ORO C ₂₈ -C ₄₀ mg/kg		Total TPH (GRO+DRO+ORO) mg/kg		
				Chloride	PID	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg			Q	mg/kg		Q	mg/kg
BH-1	10/13/2020	0-1	-	-	642	<0.00106	0.00170	J	<0.00266	0.000958	J	0.00266	0.0534	J	1.89	J	3.74	J	5.68
		2-3	-	-	340	<0.00107	<0.00537	<0.00268	<0.00698	-	<0.104	<4.15	-	1.81	J	1.81	-	1.81	
		4-5	-	-	365	<0.00115	<0.00573	<0.00287	<0.00745	-	0.0443	<4.29	-	<4.29	-	<4.29	-	0.0443	
		6-7	-	-	176	<0.00111	<0.00556	<0.00278	<0.00723	-	<0.106	<4.23	-	<4.23	-	<4.23	-	0.0672	
		9-10	-	-	114	<0.00107	<0.00535	<0.00268	<0.00696	-	0.0672	<4.14	-	<4.14	-	<4.14	-	-	
		14-15	-	-	120	<0.00110	<0.00550	<0.00275	<0.00715	-	<0.105	<4.20	-	<4.20	-	<4.20	-	-	
		19-20	-	-	172	<0.00119	<0.00594	<0.00297	<0.00772	-	0.0502	<4.37	-	<4.37	-	<4.37	-	0.0502	
BH-2	10/13/2020	0-1	-	-	1000	<0.00103	<0.00517	<0.00259	<0.00672	-	<0.102	13.3	-	30.2	-	43.5	-	-	
		2-3	-	-	1050	<0.00109	<0.00543	<0.00271	<0.00705	-	0.0245	3.11	J	4.28	-	7.41	-	-	
		4-5	-	-	346	<0.00105	<0.00526	<0.00263	<0.00684	-	0.0313	<4.11	-	<4.11	-	0.0313	-	-	
		6-7	-	-	371	<0.00109	<0.00543	<0.00271	<0.00706	-	<0.104	<4.17	-	<4.17	-	<4.17	-	-	
		9-10	-	-	114	0.00544	J	<0.00550	<0.00275	<0.00715	<0.00544	<0.105	<4.20	-	<4.20	-	<4.20	-	-
		14-15	-	-	986	<0.00151	<0.00753	<0.00376	<0.00978	-	<0.125	<5.00	-	<5.00	-	<5.00	-	-	
		19-20	-	-	471	<0.00125	<0.00626	<0.00313	<0.00813	-	0.0253	J	4.45	J	3.26	J	7.74	-	-
		24-25	-	-	310	<0.00111	<0.00555	<0.00277	<0.00721	-	<0.105	2.38	J	<4.22	J	<4.22	2.38	-	-
		29-30	-	-	282	<0.00109	<0.00545	<0.00272	<0.00708	-	<0.104	1.93	J	<4.18	J	<4.18	1.93	-	-
		34-35	-	-	239	<0.00108	<0.00540	<0.00270	<0.00703	-	<0.104	3.03	J	<4.16	J	<4.16	3.03	-	-
39-40	-	-	252	<0.00108	<0.00542	<0.00271	0.00352	J	0.00352	2.53	J	1.12	J	3.68	-	-	-		
BH-3	10/13/2020	0-1	-	-	4650	0.00547	J	<0.00526	0.000911	J	0.00341	J	0.00487	0.0568	B	99.7	136	236	
		2-3	-	-	1530	<0.00106	<0.00531	<0.00266	<0.00691	-	0.0346	B	22.5	28.4	-	50.9	-	-	
		4-5	-	-	77.0	<0.00103	<0.00515	<0.00257	<0.00669	-	0.0336	B	4.76	5.52	-	10.3	-	-	
		6-7	-	-	15.8	<0.00114	<0.00572	<0.00286	<0.00744	-	0.0307	B	<4.29	0.998	B	1.03	-	-	
		9-10	-	-	66.2	<0.00112	<0.00558	<0.00279	<0.00726	-	0.0236	B	<4.23	1.68	B	1.70	-	-	
		14-15	-	-	93.6	<0.00118	<0.00588	<0.00294	<0.00765	-	0.0275	B	<4.35	0.957	B	0.985	-	-	
19-20	-	-	55.3	<0.00111	<0.00554	<0.00277	<0.00720	-	0.0286	B	2.73	J	0.911	B	3.67	-	-		
BH-5	10/13/2020	0-1	99	-	<20.3	0.00539	J	0.00144	J	<0.00256	<0.00667	-	0.00198	0.0423	B	8.01	22.5	30.6	
		10/13/2020	0-1	130	-	35.8	0.00110	0.00274	J	<0.00258	0.00134	J	0.00518	0.0348	B	4.54	17.6	22.2	
BH-7	10/14/2020	0-1	-	-	20.8	<0.00104	<0.00518	<0.00259	<0.00673	-	0.0283	B	18.9	-	188	-	207	-	
		2-3	-	-	16.5	J	<0.00106	<0.00532	<0.00266	<0.00691	-	0.0320	B	4.01	J	28.4	-	32.4	
		4-5	-	-	96.9	<0.00107	<0.00535	<0.00268	<0.00696	-	0.0298	B	<4.14	2.68	B	2.71	-	-	
		6-7	-	-	320	<0.00114	<0.00568	<0.00284	<0.00738	-	<0.107	<4.27	0.364	B	0.364	-	-	-	
		9-10	-	-	341	<0.00112	<0.00559	<0.00279	<0.00727	-	0.0553	B	<4.23	<4.23	-	0.0553	-	-	
		0-1	-	-	36.3	<0.00106	<0.00528	<0.00264	<0.00686	-	0.0264	B	<4.11	1.36	B	1.39	-	-	
BH-9	10/14/2020	2-3	-	-	30.9	<0.00110	<0.00549	<0.00274	<0.00714	-	0.0250	B	<4.20	3.87	B	3.90	-	-	
		4-5	-	-	31.7	<0.00110	<0.00552	<0.00276	<0.00718	-	0.0284	B	<4.21	1.53	B	1.56	-	-	
		0-1	-	-	47.4	<0.00104	<0.00520	<0.00260	<0.00675	-	0.0316	B	2.34	J	8.13	-	10.5		
BH-10	10/14/2020	2-3	-	-	37.5	<0.00105	<0.00524	<0.00262	<0.00681	-	0.0264	B	<4.10	1.34	B	1.37	-	-	
		4-5	-	-	113	<0.00111	<0.00553	<0.00277	<0.00719	-	<0.105	<4.21	0.598	B	0.598	-	-	-	
		6-7	-	-	80.6	<0.00117	<0.00583	<0.00291	<0.00757	-	0.0271	B	<4.33	0.425	B	0.452	-	-	
		9-10	-	-	34.8	<0.00111	<0.00554	<0.00277	<0.00720	-	0.0522	B	<4.21	0.455	B	0.507	-	-	
BH-11	10/13/2020	0-1	125	-	44.9	0.000971	<0.00511	<0.00255	<0.00664	0.000971	0.0302	B	9.69	-	29.5	-	39.2	-	
		1-2	225	-	163	0.00106	0.00134	J	<0.00258	<0.00672	0.00240	0.0289	B	10.8	37.8	-	48.6	-	-

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT
CONOCOPHILLIPS
VACUUM ABO BATTERY #4 TRUNKLINE RELEASE
1RP-3714
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride ¹		BTEX ²						TPH ³							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO ⁴ C ₃ - C ₁₀	DRO		ORO	
					mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q			mg/kg	Q	mg/kg	Q
BH-12	10/13/2020	0-1	250	-	12.4	J	< 0.00109	< 0.00544	< 0.00272		B/J	0.00292	B/J	0.00224	B/J	0.00292	B/J	5.31	20.1	25.5
		1-2	190	-	<21.2		< 0.00112	< 0.00561	< 0.00281		B/J	0.00224	B/J	0.00224	B/J	0.00224	B/J	8.86	25.1	34.0
BH-13	10/13/2020	0-1	260	-	24.9		< 0.00107	0.00166	J	0.000877	J	0.00321	B/J	0.00575	B/J	0.00575	B/J	10.9	38.3	49.3
		1-2	305	-	55.6		< 0.00113	< 0.00565	< 0.00283		B/J	0.00101	B/J	0.00101	B/J	0.00101	B/J	6.46	21.3	27.9
BH-14	10/13/2020	0-1	420	-	219		< 0.00110	< 0.00552	< 0.00276		B/J	0.00127	B/J	0.00127	B/J	0.00127	B/J	9.10	21.7	30.8
		1-2	450	-	452		< 0.00113	< 0.00566	< 0.00283		B/J	0.00736	B/J	0.00736	B/J	0.00736	B/J	11.1	24.2	35.3

NOTES:

Bold and italicized values indicate exceedance of proposed RRLs

- 1 EPA Method 300.0
2 EPA Method 8260B
3 EPA Method 8015
4 EPA Method 8015D/GRO

QUALIFIERS:

- B The same analyte was found in the associated blank.
J The identification of the analyte is acceptable; the reported value is an estimate.

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil range organics

APPENDIX A C-141 Forms

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: ConocoPhillips	Contact: Jay Garcia
Address: 29 Vacuum Complex Lane	Telephone No. 575-704-2455
Facility Name: Vac Abo # 04	Facility Type: Trunk Line

Surface Owner: NMOCD	Mineral Owner:	API No. 30-025-26931
-----------------------------	----------------	-----------------------------

LOCATION OF RELEASE

Unit Letter F	Section 05	Township 18S	Range 35E	Feet from the 2286	North/South Line North	Feet from the 2080	East/West Line West	County LEA
-------------------------	----------------------	------------------------	---------------------	------------------------------	----------------------------------	------------------------------	-------------------------------	----------------------

Latitude 32.7779083,- Longitude 103.4816513

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: 1 BO & 22.23 BPW	Volume Recovered. 5 BPW
Source of Release: Trunk line leak.	Date and Hour of Occurrence 07/06/2015 5:45 am	Date and Hour of Discovery 07/06/2015 5:45 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Tomas Oberding- NMOCD	
By Whom? Jay Garcia	Date and Hour: 07/06/2015 2:30 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

RECEIVED

By OCD; Dr. Oberding at 3:47 pm, Jul 06, 2015

ENV – Agency Reportable – 1 BO & 22.23 BPW – Vac Abo 04 – RR II – MCBU – Buckeye – On Monday July 06, 2015 at 0540 MDT, a release occurred at Vac Abo Battery 4. MSO responded to a trunk line leak resulting in a release of 1 BO and 22.23 BPW with 5 BPW recovered. Immediate action was to shut down wells and facility and close valve to trunk line. A work order has been submitted for repairs. The affected area will be remediated according to NMOCD and COPC and guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Jay Garcia</i>		OIL CONSERVATION DIVISION	
Printed Name: Jay Garcia		Approved by Environmental Specialist: <i>[Signature]</i> PhD	
Title: LEAD HSE		Approval Date: 07/06/2015	Expiration Date: 10/06/2015
E-mail Address: jay.c.garcia@conocophillips.com		Conditions of Approval:	
Date: 07/06/2015 Phone: 575-704-2455		Site samples required. Delineate and remediate as per OCD guides. Please provide geotagged photos of remediation.	
		Attached <input type="checkbox"/>	
		1RP-3714 217817	

* Attach Additional Sheets If Necessary

nTO1518757703

pTO1518936962

Incident ID	nTO1518757703
District RP	1RP-3714
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	68 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nTO1518757703
District RP	1RP-3714
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Marvin Soriwei Title: Program Manager, Risk Management & RemediationSignature: Date: 2/12/2021email: marvin.soriwei@conocophillips.comTelephone: 8324862730**OCD Only**

Received by: _____

Date: _____

Incident ID	nTO1518757703
District RP	1RP-3714
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)


Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Marvin SoriweiTitle: Program Manager, Risk Management & RemediationSignature: Date: 2/12/2021email: marvin.soriwei@conocophillips.comTelephone: 8324862730**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature: Date: 1/4/2023

APPENDIX B

Site Characterization Data



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 04250	L	LE					05	18S	35E	642378	3627565*	215	112	60	52
L 04664	L	LE		2	3	05	18S	35E	642171	3627371*	316	140	70	70	
L 04931	L	LE		1	2	05	18S	35E	642561	3628183*	614	237	70	167	
L 04591	L	LE		4	2	05	18S	35E	642970	3627785*	776	130	75	55	

Average Depth to Water: **68 feet**

Minimum Depth: **60 feet**

Maximum Depth: **75 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 642199.906

Northing (Y): 3627685.879

Radius: 800

*UTM location was derived from PLSS - see Help

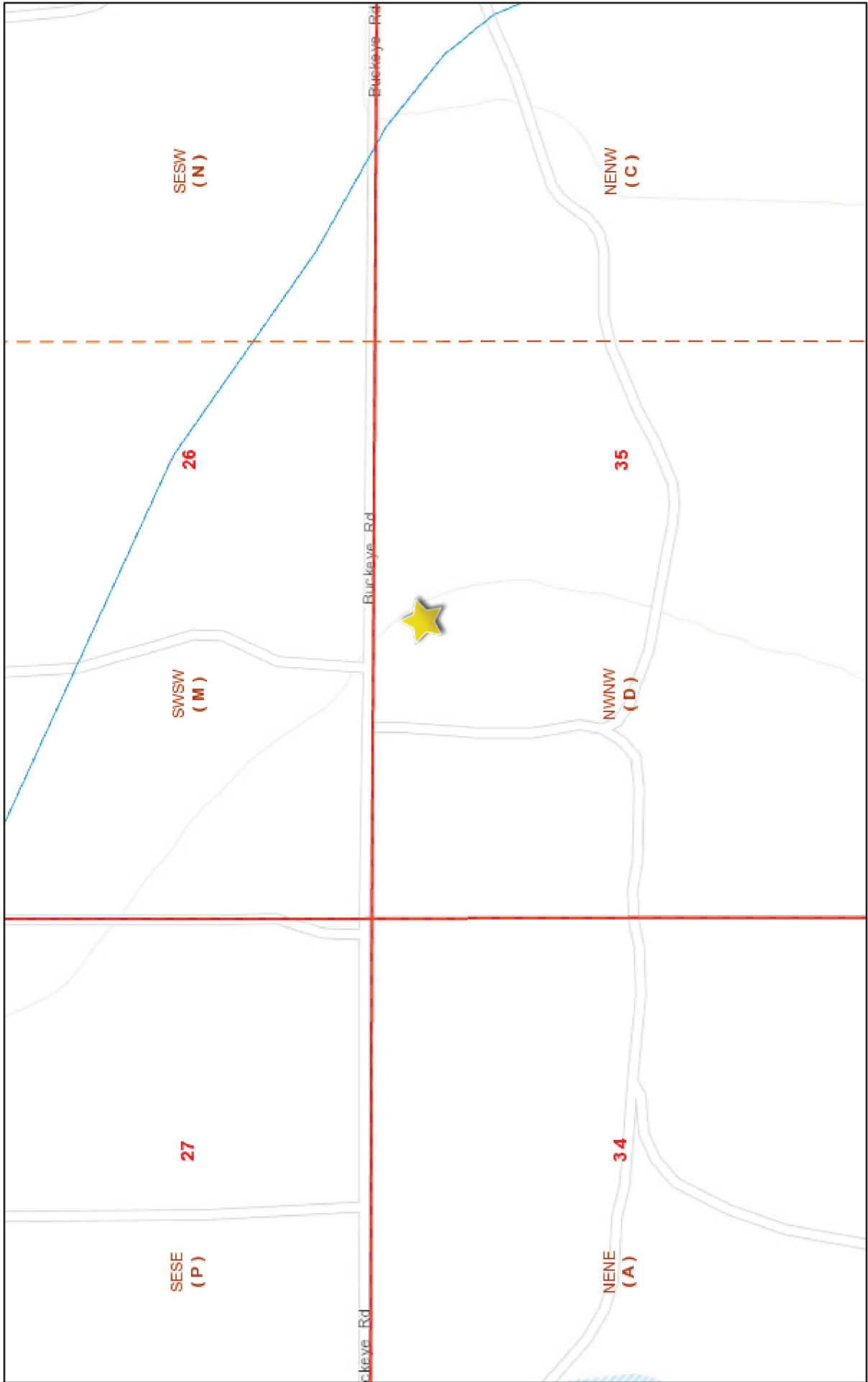
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

11/19/20 11:31 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Water Bodies



2/21/2020, 3:44:59 PM

1:4,514

0 0.03 0.07 0.1 0.13 mi

0 0.05 0.1 0.2 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, New Mexico Oil Conservation Division

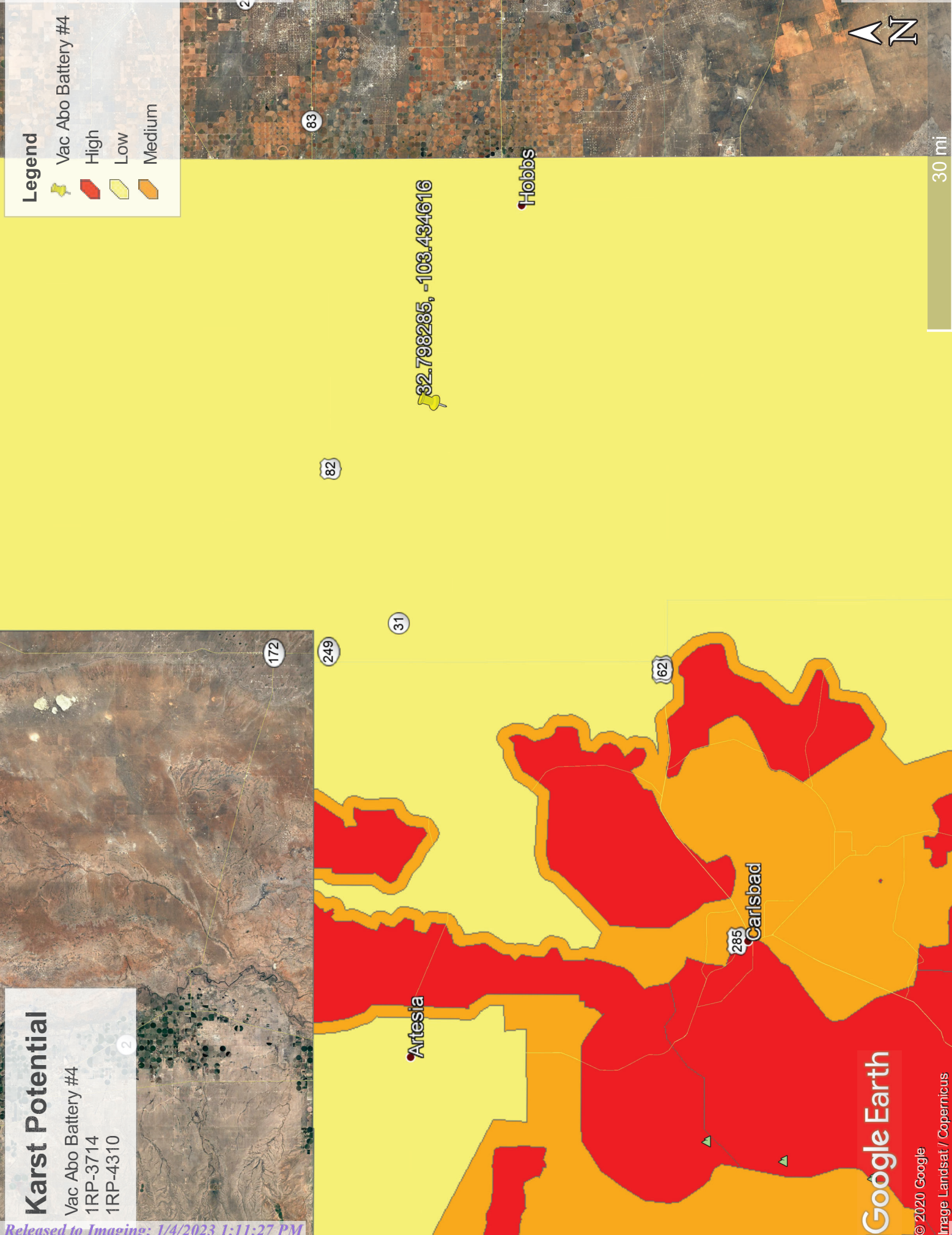
PLSS Townships

OSE Streams

OSE Water-bodies

PLJV Probable Playas

NM OCD Oil and Gas Map. <http://nm-ennrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d0172306164de29fd2b9f8f35ca75>



APPENDIX C

Corrective Action Plan (May 24, 2016)

APPROVED



CONOCOPHILLIPS

P.O. Box 2197
Houston, TX 77252-2197
Phone 281.293.1000

Vac Abo #04
(1RP-3714)

Corrective Action Plan

API No. 30-025-26931

Release Date: July 6th, 2015

Unit Letter D, Section 35, Township 17S, Range 35E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

May 24th, 2016

Jamie Keyes

Environmental Specialist – New Mexico Oil Conservation Division
Energy, Minerals and Natural Resources Department
1625 N. French Dr.
Hobbs, NM 88240

**RE: Corrective Action Plan
ConocoPhillips Vac Abo #04 (1RP-3714)
UL/D sec. 35 T17S R35E
API No. 30-025-26931**

Mr. Keyes:

ConocoPhillips (CoP) has retained Basin Environmental Service Technologies to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 4.1 miles east of Buckeye, New Mexico. The initial C-141 states that the site is located at UL/F Sec. 5 T18S R35E. However, GIS mapping shows the site to be located within UL/D sec. 35 T17S R35E. NM OSE and Basin installed monitor well records indicate that groundwater will likely be encountered at a depth of approximately 57 +/- feet.

On July 6th, 2015, CoP discovered a release from a trunk line. A total of 1 barrel of oil and 22.23 barrels of produced water was released over 18,266 sq ft of lease pad and road with 5 barrels of produced water recovered. CoP covered the Highway with base course to soak up the fluid. NMOCD was notified of the release on July 6th, 2015, and an initial C-141 was submitted and approved by NMOCD on July 6th, 2015 (Appendix A).

On July 6th, 2015, Basin personnel were on site to assess the release. On May 3rd, 2016 three points within the release area were sampled with depth (Figure 1). All samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis (Appendix B).

Photo Documentation of these activities may be found in Appendix C.

Corrective Action Plan

Based on the assessment, CoP scraped the release on the lease pad to 6". The release around point 1 will be excavated down to 2.5 ft bgs, the release around point 2 will be excavated down to 3.5 ft bgs. The release around point 3 was scraped to 6". There are buried lines running throughout the release. To provide for the safety of people and equipment at the site, the excavation will remain 5 ft away from the buried lines.

All excavated soil will be taken to a NMOCD approved facility for disposal. Clean soil will be imported to the site to serve as backfill. A sample of the backfill soil will be taken to a commercial laboratory to confirm that the chloride reading is below regulatory standards. The lease pad will be backfilled with clean, imported soil. The site will be contoured to the surrounding location.

Once these activities have been completed, a report will be sent to NMOCD requesting 'remediation termination' and site closure.

Basin appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,



Kyle Norman
Project Lead
Basin Environmental Service Technologies
(575) 942-8542

Attachments:

- Figure 1 – Initial sampling data
- Appendix A – Initial C-141
- Appendix B – Laboratory Analysis
- Appendix C – Photo Documentation

Figures

Basin Environmental Service Technologies, LLC
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967



**CONOCOPHILLIP
VACUUM ABO #4**

1RP-3714

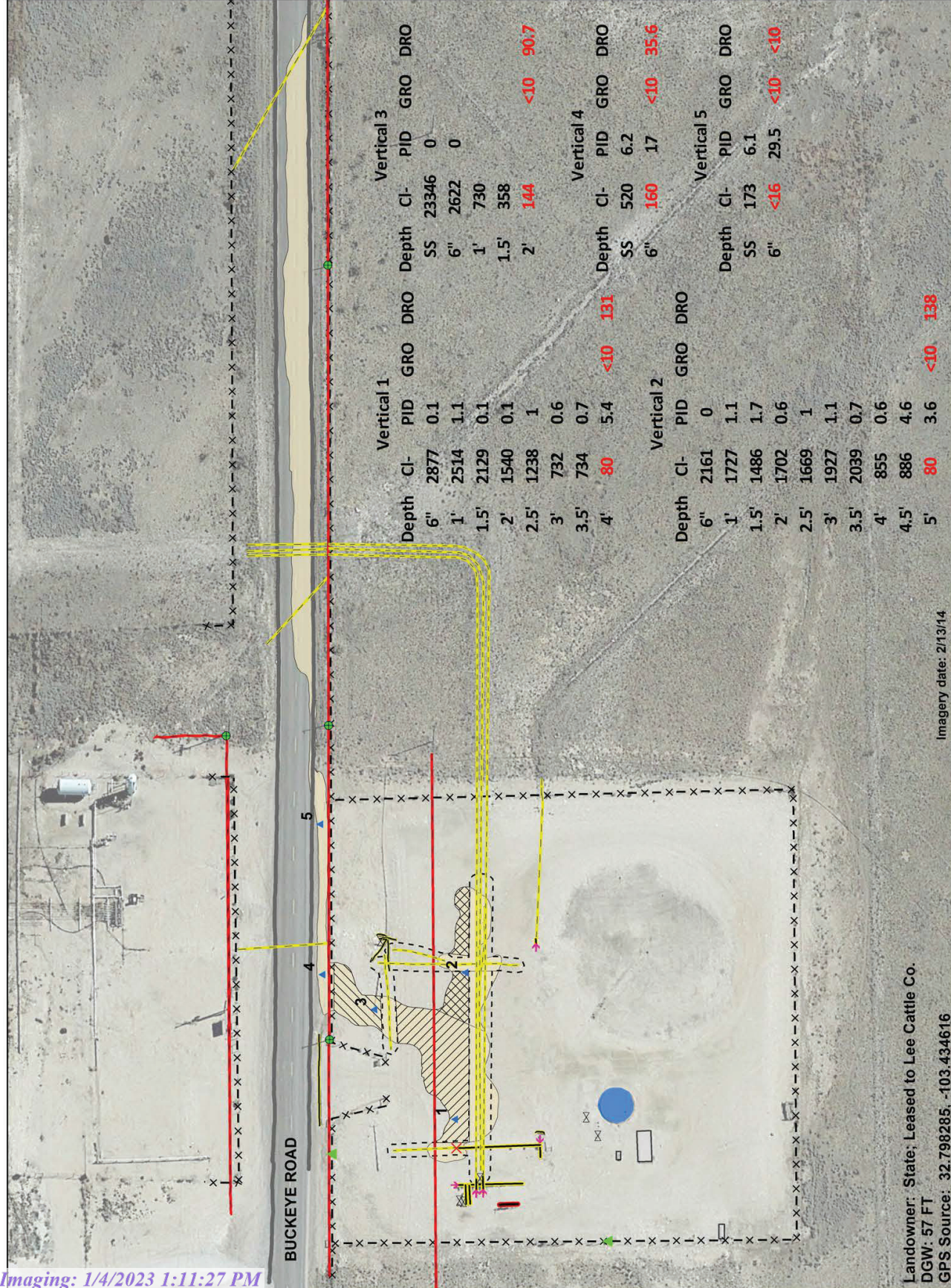
U/L M & N SECTION 26
U/L C & D SECTION 35
T-17-S R-35-E

Legend

- SAMPLE POINT
- ELECTRIC POLE
- PIPELINE MARKER
- RISER END
- SOURCE
- VALVE
- BURIED PIPELINE
- ELECTRIC PANEL (ABD)
- FENCE
- OVERHEAD ELECTRIC LINE
- PAD/ROAD EDGE
- RISER
- SURFACE PIPELINE
- 5 FT PIPELINE BUFFER ZONE
- 6 IN SCRAPE
- PROPOSED 2.5 FT EXCAVATION
- PROPOSED 3.5 FT EXCAVATION
- CONCRETE BASE
- STAIN (18266 SQ FT)
- TANK BASE



GPS date: 7/06/15 BC, 5/9/16 JK
5/17/16 KN
Drawing date: 5/24/16
Drafted by: Brian Cooper, T. Grieco



Landowner: State; Leased to Lee Cattle Co.
DGW: 57 FT
GPS Source: 32.798285, -103.434616

Imagery date: 2/13/14

Appendix A

Intial C-141

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: ConocoPhillips	Contact: Jay Garcia
Address: 29 Vacuum Complex Lane	Telephone No. 575-704-2455
Facility Name: Vac Abo #04	Facility Type: Trunk Line
Surface Owner: NMOCD	Mineral Owner: API No. 30-025-26931

LOCATION OF RELEASE

Unit Letter F	Section 05	Township 18S	Range 35E	Feet from the 2286	North/South Line North	Feet from the 2080	East/West Line West	County LEA
-------------------------	----------------------	------------------------	---------------------	------------------------------	----------------------------------	------------------------------	-------------------------------	----------------------

Latitude 32.7779083, Longitude 103.4816513

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: 1 BO & 22.23 BPW	Volume Recovered: 5 BPW
Source of Release: Trunk line leak.	Date and Hour of Occurrence 07/06/2015 5:45 am	Date and Hour of Discovery 07/06/2015 5:45 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Tomas Oberding- NMOCD	
By Whom? Jay Garcia	Date and Hour: 07/06/2015 2:30 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*	<div style="border: 2px solid blue; padding: 5px; text-align: center;"> RECEIVED By OCD; Dr. Oberding at 3:47 pm, Jul 06, 2015 </div>	

ENV – Agency Reportable – 1 BO & 22.23 BPW – Vac Abo 04 – RR II – MCBU – Buckeye – On Monday July 06, 2015 at 0540 MDT, a release occurred at Vac Abo Battery 4. MSO responded to a trunk line leak resulting in a release of 1 BO and 22.23 BPW with 5 BPW recovered. Immediate action was to shut down wells and facility and close valve to trunk line. A work order has been submitted for repairs. The affected area will be remediated according to NMOCD and COPC and guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: <i>Jay Garcia</i>	Approved by Environmental Specialist: <i>[Signature]</i>	
Printed Name: Jay Garcia	Approval Date: 07/06/2015	Expiration Date: 10/06/2015
Title: LEAD HSE	Conditions of Approval:	
E-mail Address: jay.c.garcia@conocophillips.com	Site samples required. Delineate and remeadiete as per OCD guides. Please provide geotagged photos of remediation.	
Date: 07/06/2015 Phone: 575-704-2455	Attached <input type="checkbox"/> 1RP-3714 217817	

* Attach Additional Sheets If Necessary

nTO1518757703

pTO1518936962

Appendix B

Laboratory Analysis

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



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

May 18, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: VAC ABO #4

Enclosed are the results of analyses for samples received by the laboratory on 05/18/16 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
 KYLE NORMAN
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 05/18/2016
 Reported: 05/18/2016
 Project Name: VAC ABO #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/17/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 @ 4' (H601085-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/18/2016	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/18/2016	ND	169	84.4	200	0.716	
DRO >C10-C28	131	10.0	05/18/2016	ND	177	88.3	200	0.925	

Surrogate: 1-Chlorooctane 82.9 % 35-147

Surrogate: 1-Chlorooctadecane 119 % 28-171

Sample ID: PT. 2 @ 5' (H601085-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/18/2016	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/18/2016	ND	169	84.4	200	0.716	
DRO >C10-C28	138	10.0	05/18/2016	ND	177	88.3	200	0.925	

Surrogate: 1-Chlorooctane 42.7 % 35-147

Surrogate: 1-Chlorooctadecane 54.9 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
 KYLE NORMAN
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 05/18/2016
 Reported: 05/18/2016
 Project Name: VAC ABO #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/17/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 3 @ 2' (H601085-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/18/2016	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/18/2016	ND	169	84.4	200	0.716	
DRO >C10-C28	90.7	10.0	05/18/2016	ND	177	88.3	200	0.925	
Surrogate: 1-Chlorooctane		72.8 %	35-147						
Surrogate: 1-Chlorooctadecane		93.7 %	28-171						

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



ORDINAL LABORATORIES

PRINCIPAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

RIGHT

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

May 18, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: VAC ABO #4

Enclosed are the results of analyses for samples received by the laboratory on 05/18/16 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
 KYLE NORMAN
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 05/18/2016
 Reported: 05/18/2016
 Project Name: VAC ABO #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 5 @ 6" (H601086-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/18/2016	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/18/2016	ND	169	84.4	200	0.716	
DRO >C10-C28	<10.0	10.0	05/18/2016	ND	177	88.3	200	0.925	
Surrogate: 1-Chlorooctane		83.2 %	35-147						
Surrogate: 1-Chlorooctadecane		96.6 %	28-171						

Sample ID: PT. 4 @ 6" (H601086-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/18/2016	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/18/2016	ND	169	84.4	200	0.716	
DRO >C10-C28	35.6	10.0	05/18/2016	ND	177	88.3	200	0.925	
Surrogate: 1-Chlorooctane		75.5 %	35-147						
Surrogate: 1-Chlorooctadecane		93.5 %	28-171						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

RASH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Appendix C

Photo Documentation

Basin Environmental Service Technologies, LLC
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

CONOCOPHILLIPS VACUUM ABO #4
UL M & N Section 26 and UL C & D Section 35, T-17-S R-35-E



Source, facing east

7/6/15



Spill down roadway facing east

7/6/15



Vacuuming spill off road

7/6/15



Covering spill area on road with caliche facing east

7-6-15



Installing vertical facing northwest

5/17/16



Backfilling vertical facing northwest

5/17/16



Road facing west

5/3/2016



Road facing east

5/3/2016

APPENDIX D

Basin Excavation Map

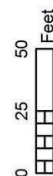


CONOCOPHILLIP VACUUM ABO #4

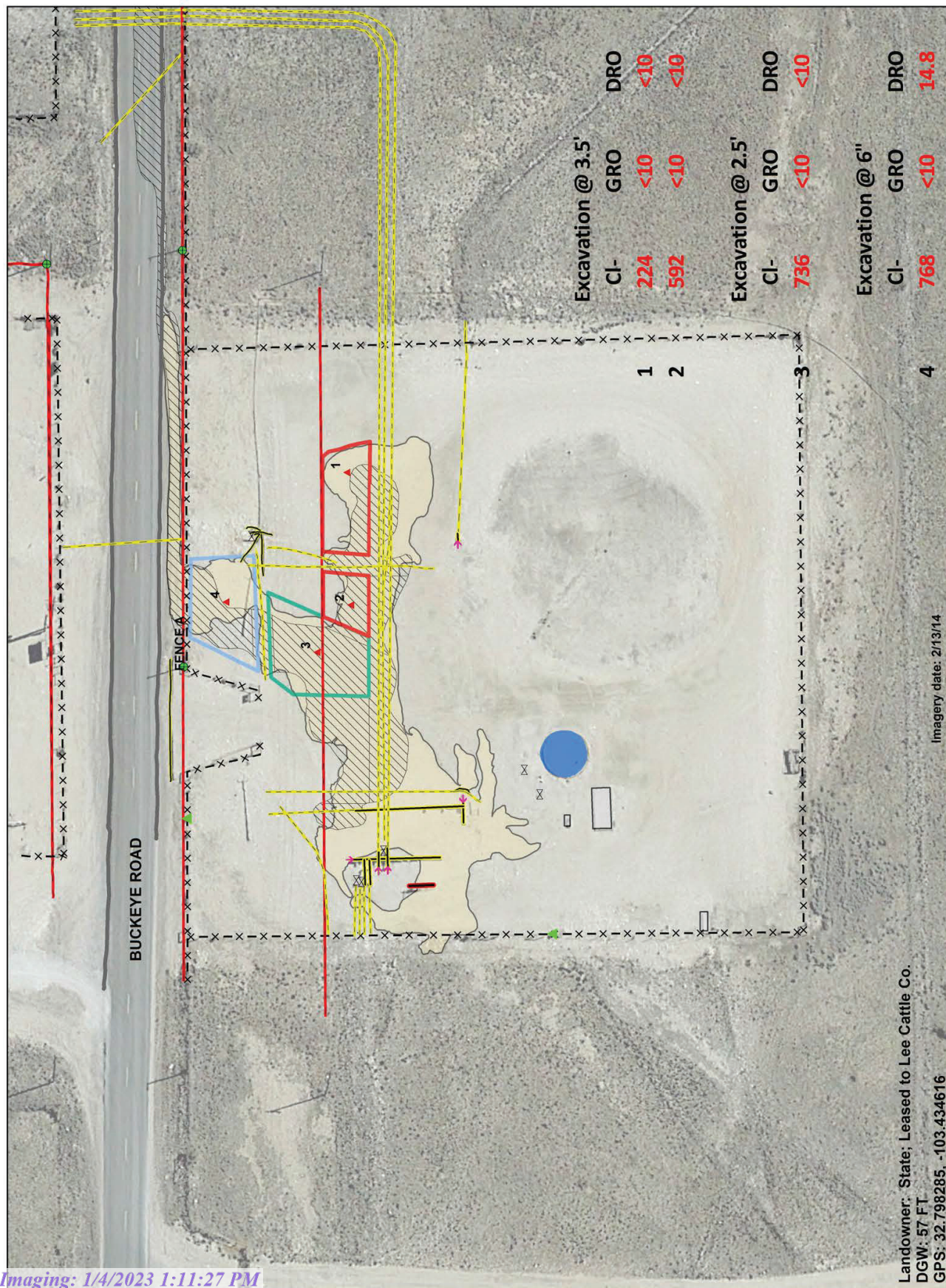
U/L M & N SECTION 26
U/L C & D SECTION 35
T-17-S R-35-E
LEA COUNTY, NM

Legend

- ELECTRIC POLE
- EXCAVATION SAMPLE POINT
- PIPELINE MARKER
- RISER END
- VALVE
- BURIED PIPELINE
- ELECTRIC PANEL (ABD)
- X - X FENCE
- OVERHEAD ELECTRIC LINE
- PAD/ROAD EDGE
- RISER
- SURFACE PIPELINE
- CONCRETE BASE
- EXCAVATION @ 2.5 FT
- EXCAVATION @ 3.5 FT
- EXCAVATION @ 6 IN
- AD #1 STAIN (18,286 SQ FT)
- TANK BASE
- AD #2 STAIN - 18,425 SQ FT



GPS date: 7/06/15 BC, 6/13/16 TG
Drawing date: 6/30/16
Drafted by: T. Grieco

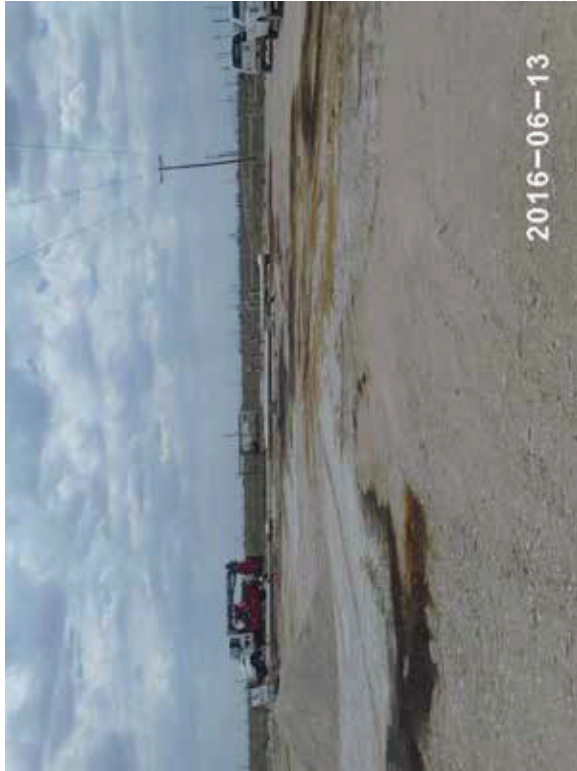


Landowner: State, Leased to Lee Cattle Co.
DGW: 57 FT
GPS: 32.798285, -103.434616

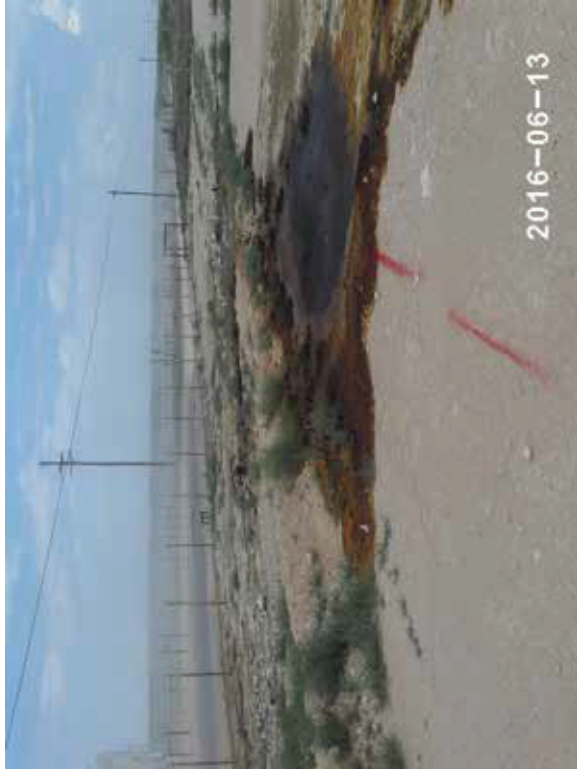
Imagery date: 2/13/14

CONOCOPHILLIPS VACUUM ABO #4

UL M & N Section 26 and UL C & D Section 35, T-17-S R-35-E



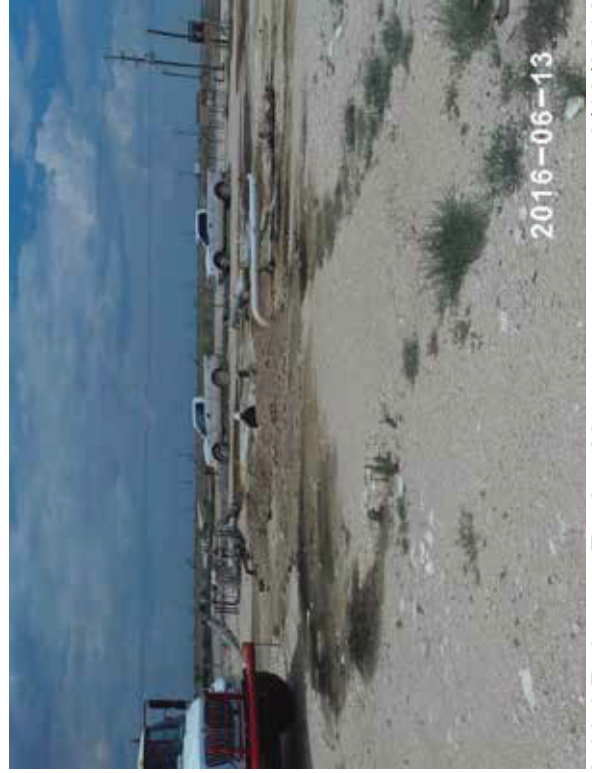
Initial Release, Facing W 6/13/2016



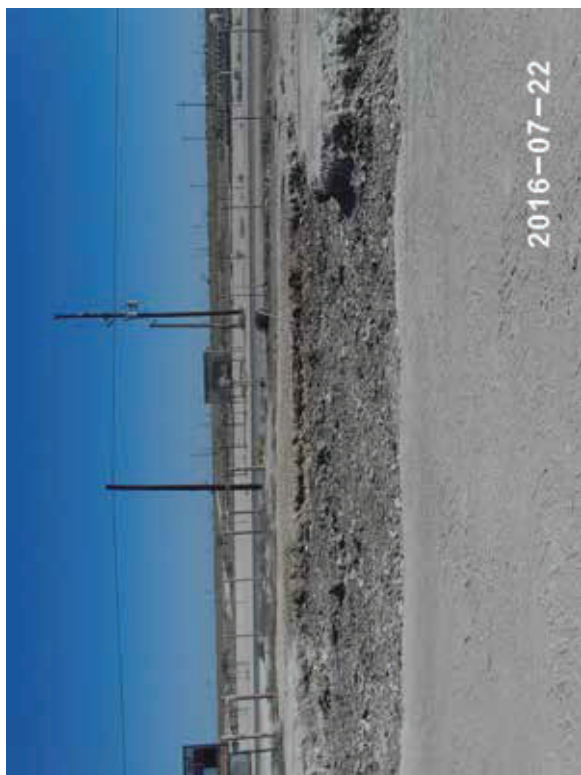
Initial Release, Facing NE 6/13/2016



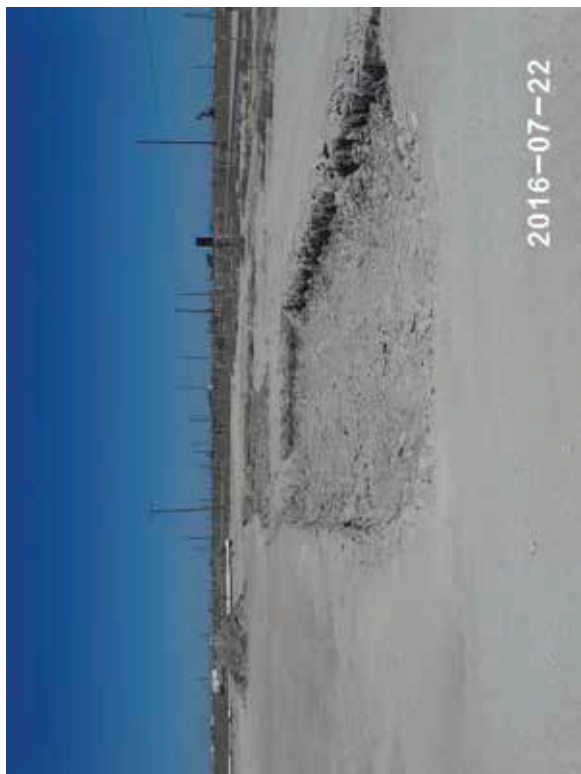
Initial Release, Facing E 6/13/2016



Initial Release, Facing N 6/13/2016



Excavation, Facing N 7/22/2016



Excavation, Facing W 7/22/2016

APPENDIX E

Laboratory Analytical Data



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

May 18, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: VAC ABO #4

Enclosed are the results of analyses for samples received by the laboratory on 05/18/16 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
 KYLE NORMAN
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 05/18/2016
 Reported: 05/18/2016
 Project Name: VAC ABO #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 05/04/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 5 @ 6" (H601086-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/18/2016	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/18/2016	ND	169	84.4	200	0.716	
DRO >C10-C28	<10.0	10.0	05/18/2016	ND	177	88.3	200	0.925	
Surrogate: 1-Chlorooctane	83.2 %	35-147							
Surrogate: 1-Chlorooctadecane	96.6 %	28-171							

Sample ID: PT. 4 @ 6" (H601086-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/18/2016	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/18/2016	ND	169	84.4	200	0.716	
DRO >C10-C28	35.6	10.0	05/18/2016	ND	177	88.3	200	0.925	
Surrogate: 1-Chlorooctane	75.5 %	35-147							
Surrogate: 1-Chlorooctadecane	93.5 %	28-171							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ORDINAL LABORATORIES

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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

RASH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

July 25, 2016

KYLE NORMAN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: VAC ABO #4

Enclosed are the results of analyses for samples received by the laboratory on 07/22/16 11:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
 KYLE NORMAN
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/22/2016
 Reported: 07/25/2016
 Project Name: VAC ABO #4
 Project Number: 1RP-3714 & 1RP-4310
 Project Location: NOT GIVEN

Sampling Date: 07/22/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 EXC @ 3.5' (H601642-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/25/2016	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/22/2016	ND	174	87.0	200	7.80	
DRO >C10-C28	<10.0	10.0	07/22/2016	ND	177	88.4	200	9.00	
Surrogate: 1-Chlorooctane	84.1 %	35-147							
Surrogate: 1-Chlorooctadecane	95.9 %	28-171							

Sample ID: PT. 2 EXC @ 3.5' (H601642-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	07/25/2016	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/22/2016	ND	174	87.0	200	7.80	
DRO >C10-C28	<10.0	10.0	07/22/2016	ND	177	88.4	200	9.00	
Surrogate: 1-Chlorooctane	86.6 %	35-147							
Surrogate: 1-Chlorooctadecane	96.3 %	28-171							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
 KYLE NORMAN
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received: 07/22/2016
 Reported: 07/25/2016
 Project Name: VAC ABO #4
 Project Number: 1RP-3714 & 1RP-4310
 Project Location: NOT GIVEN

Sampling Date: 07/22/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 3 EXC @ 2.5' (H601642-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	07/25/2016	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/22/2016	ND	174	87.0	200	7.80	
DRO >C10-C28	<10.0	10.0	07/22/2016	ND	177	88.4	200	9.00	

Surrogate: 1-Chlorooctane 84.5 % 35-147

Surrogate: 1-Chlorooctadecane 95.2 % 28-171

Sample ID: PT. 4 EXC @ 6" (H601642-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	07/25/2016	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/22/2016	ND	174	87.0	200	7.80		
DRO >C10-C28	14.8	10.0	07/22/2016	ND	177	88.4	200	9.00		

Surrogate: 1-Chlorooctane 90.7 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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RUSH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5



ANALYTICAL REPORT

October 27, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group: L1274488
Samples Received: 10/16/2020
Project Number: 212C-MD-02110
Description: Vacuum ABO Battery #4 Releases

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

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.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
BH-5 (0-1) L1274488-01	6
BH-6 (0-1) L1274488-02	7
BH-11 (0-1) L1274488-03	8
BH-11 (1-2) L1274488-04	9
BH-12 (0-1) L1274488-05	10
BH-12 (1-2) L1274488-06	11
BH-13 (0-1) L1274488-07	12
BH-13 (1-2) L1274488-08	13
BH-14 (0-1) L1274488-09	14
BH-14 (1-2) L1274488-10	15
Qc: Quality Control Summary	16
Total Solids by Method 2540 G-2011	16
Wet Chemistry by Method 300.0	18
Volatile Organic Compounds (GC) by Method 8015D/GRO	19
Volatile Organic Compounds (GC/MS) by Method 8260B	21
Semi-Volatile Organic Compounds (GC) by Method 8015	24
Gl: Glossary of Terms	25
Al: Accreditations & Locations	26
Sc: Sample Chain of Custody	27

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

BH-5 (0-1) L1274488-01 Solid

				Collected by Adrian Garcia	Collected date/time 10/13/20 08:30	Received date/time 10/16/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1562859	1	10/22/20 04:12	10/22/20 04:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562895	1	10/21/20 21:05	10/21/20 23:49	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564026	1	10/21/20 15:43	10/23/20 00:16	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564415	1	10/21/20 15:43	10/24/20 05:20	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563260	1	10/22/20 10:19	10/23/20 19:34	JDG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-6 (0-1) L1274488-02 Solid

				Collected by Adrian Garcia	Collected date/time 10/13/20 09:00	Received date/time 10/16/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1562859	1	10/22/20 04:12	10/22/20 04:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562895	1	10/21/20 21:05	10/22/20 00:08	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564026	1	10/21/20 15:43	10/23/20 00:37	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564334	1	10/21/20 15:43	10/23/20 22:19	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563260	1	10/22/20 10:19	10/23/20 04:36	JDG	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-11 (0-1) L1274488-03 Solid

				Collected by Adrian Garcia	Collected date/time 10/13/20 09:30	Received date/time 10/16/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1562859	1	10/22/20 04:12	10/22/20 04:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562895	1	10/21/20 21:05	10/22/20 00:17	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564026	1	10/21/20 15:43	10/23/20 00:58	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564334	1	10/21/20 15:43	10/23/20 22:38	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563260	2	10/22/20 10:19	10/23/20 19:07	JDG	Mt. Juliet, TN

9 Sc

BH-11 (1-2) L1274488-04 Solid

				Collected by Adrian Garcia	Collected date/time 10/13/20 10:00	Received date/time 10/16/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1562859	1	10/22/20 04:12	10/22/20 04:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562895	1	10/21/20 21:05	10/22/20 00:27	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564026	1.01	10/21/20 15:43	10/23/20 01:40	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564334	1	10/21/20 15:43	10/23/20 22:57	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563260	1	10/22/20 10:19	10/23/20 20:14	JDG	Mt. Juliet, TN

BH-12 (0-1) L1274488-05 Solid

				Collected by Adrian Garcia	Collected date/time 10/13/20 10:30	Received date/time 10/16/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1562859	1	10/22/20 04:12	10/22/20 04:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562895	1	10/21/20 21:05	10/22/20 00:36	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564026	1	10/21/20 15:43	10/23/20 02:00	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564657	1	10/21/20 15:43	10/24/20 04:42	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563260	1	10/22/20 10:19	10/23/20 05:16	JDG	Mt. Juliet, TN

BH-12 (1-2) L1274488-06 Solid

				Collected by Adrian Garcia	Collected date/time 10/13/20 11:00	Received date/time 10/16/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1562859	1	10/22/20 04:12	10/22/20 04:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562895	1	10/21/20 21:05	10/22/20 00:46	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564026	1	10/21/20 15:43	10/23/20 02:21	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564657	1	10/21/20 15:43	10/24/20 05:02	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563260	1	10/22/20 10:19	10/23/20 05:29	JDG	Mt. Juliet, TN

BH-13 (0-1) L1274488-07 Solid

				Collected by Adrian Garcia	Collected date/time 10/13/20 11:30	Received date/time 10/16/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1562859	1	10/22/20 04:12	10/22/20 04:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562895	1	10/21/20 21:05	10/22/20 00:55	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564026	1	10/21/20 15:43	10/23/20 02:41	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564657	1	10/21/20 15:43	10/24/20 05:23	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563260	1	10/22/20 10:19	10/23/20 20:00	JDG	Mt. Juliet, TN

BH-13 (1-2) L1274488-08 Solid

				Collected by Adrian Garcia	Collected date/time 10/13/20 12:00	Received date/time 10/16/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1562859	1	10/22/20 04:12	10/22/20 04:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562895	1	10/21/20 21:05	10/22/20 01:24	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1563760	1	10/21/20 15:43	10/23/20 00:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564657	1	10/21/20 15:43	10/24/20 05:43	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563260	1	10/22/20 10:19	10/23/20 19:47	JDG	Mt. Juliet, TN

BH-14 (0-1) L1274488-09 Solid

				Collected by Adrian Garcia	Collected date/time 10/13/20 12:30	Received date/time 10/16/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1562859	1	10/22/20 04:12	10/22/20 04:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562895	1	10/21/20 21:05	10/22/20 01:33	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1563760	1	10/21/20 15:43	10/23/20 01:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564657	1	10/21/20 15:43	10/24/20 06:04	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563260	1	10/22/20 10:19	10/23/20 19:20	JDG	Mt. Juliet, TN

BH-14 (1-2) L1274488-10 Solid

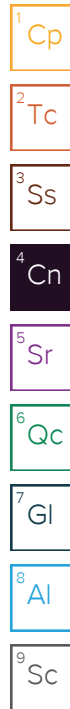
				Collected by Adrian Garcia	Collected date/time 10/13/20 13:00	Received date/time 10/16/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1562862	1	10/22/20 04:01	10/22/20 04:11	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562895	1	10/21/20 21:05	10/22/20 01:43	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1563760	1	10/21/20 15:43	10/23/20 01:23	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564657	1	10/21/20 15:43	10/24/20 06:24	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563260	1	10/22/20 10:19	10/23/20 05:03	JDG	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



Collected date/time: 10/13/20 08:30

L1274488

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.7		1	10/22/2020 04:25	WG1562859

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		9.32	20.3	1	10/21/2020 23:49	WG1562895

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	0.0423	B J	0.0220	0.101	1	10/23/2020 00:16	WG1564026
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120		10/23/2020 00:16	WG1564026

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	0.000539	J	0.000479	0.00103	1	10/24/2020 05:20	WG1564415
Toluene	0.00144	J	0.00133	0.00513	1	10/24/2020 05:20	WG1564415
Ethylbenzene	U		0.000756	0.00256	1	10/24/2020 05:20	WG1564415
Total Xylenes	U		0.000903	0.00667	1	10/24/2020 05:20	WG1564415
(S) Toluene-d8	106			75.0-131		10/24/2020 05:20	WG1564415
(S) 4-Bromofluorobenzene	98.1			67.0-138		10/24/2020 05:20	WG1564415
(S) 1,2-Dichloroethane-d4	81.4			70.0-130		10/24/2020 05:20	WG1564415

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	8.01		1.63	4.05	1	10/23/2020 19:34	WG1563260
C28-C40 Oil Range	22.5		0.278	4.05	1	10/23/2020 19:34	WG1563260
(S) o-Terphenyl	92.6			18.0-148		10/23/2020 19:34	WG1563260

Collected date/time: 10/13/20 09:00

L1274488

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.4		1	10/22/2020 04:25	WG1562859

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	35.8		9.35	20.3	1	10/22/2020 00:08	WG1562895

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

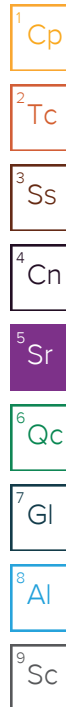
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0348	B J	0.0220	0.102	1	10/23/2020 00:37	WG1564026
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120		10/23/2020 00:37	WG1564026

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	0.00110		0.000482	0.00103	1	10/23/2020 22:19	WG1564334
Toluene	0.00274	J	0.00134	0.00516	1	10/23/2020 22:19	WG1564334
Ethylbenzene	U		0.000761	0.00258	1	10/23/2020 22:19	WG1564334
Total Xylenes	0.00134	J	0.000908	0.00671	1	10/23/2020 22:19	WG1564334
(S) Toluene-d8	108			75.0-131		10/23/2020 22:19	WG1564334
(S) 4-Bromofluorobenzene	105			67.0-138		10/23/2020 22:19	WG1564334
(S) 1,2-Dichloroethane-d4	103			70.0-130		10/23/2020 22:19	WG1564334

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.54		1.64	4.06	1	10/23/2020 04:36	WG1563260
C28-C40 Oil Range	17.6		0.278	4.06	1	10/23/2020 04:36	WG1563260
(S) o-Terphenyl	86.1			18.0-148		10/23/2020 04:36	WG1563260



Collected date/time: 10/13/20 09:30

L1274488

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.9		1	10/22/2020 04:25	WG1562859

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	44.9		9.30	20.2	1	10/22/2020 00:17	WG1562895

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	B J	0.0219	0.101	1	10/23/2020 00:58	WG1564026
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		10/23/2020 00:58	WG1564026

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	0.000971	J	0.000477	0.00102	1	10/23/2020 22:38	WG1564334
Toluene	U		0.00133	0.00511	1	10/23/2020 22:38	WG1564334
Ethylbenzene	U		0.000753	0.00255	1	10/23/2020 22:38	WG1564334
Total Xylenes	U		0.000899	0.00664	1	10/23/2020 22:38	WG1564334
(S) Toluene-d8	107			75.0-131		10/23/2020 22:38	WG1564334
(S) 4-Bromofluorobenzene	109			67.0-138		10/23/2020 22:38	WG1564334
(S) 1,2-Dichloroethane-d4	120			70.0-130		10/23/2020 22:38	WG1564334

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.69		3.26	8.09	2	10/23/2020 19:07	WG1563260
C28-C40 Oil Range	29.5		0.554	8.09	2	10/23/2020 19:07	WG1563260
(S) o-Terphenyl	92.2			18.0-148		10/23/2020 19:07	WG1563260

Collected date/time: 10/13/20 10:00

L1274488

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.4		1	10/22/2020 04:25	WG1562859

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	163		9.35	20.3	1	10/22/2020 00:27	WG1562895

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	0.0289	B J	0.0223	0.103	1.01	10/23/2020 01:40	WG1564026
(S) a,a,a-Trifluorotoluene(FID)	98.3			77.0-120		10/23/2020 01:40	WG1564026

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	0.00106		0.000483	0.00103	1	10/23/2020 22:57	WG1564334
Toluene	0.00134	J	0.00134	0.00517	1	10/23/2020 22:57	WG1564334
Ethylbenzene	U		0.000762	0.00258	1	10/23/2020 22:57	WG1564334
Total Xylenes	U		0.000909	0.00672	1	10/23/2020 22:57	WG1564334
(S) Toluene-d8	106			75.0-131		10/23/2020 22:57	WG1564334
(S) 4-Bromofluorobenzene	111			67.0-138		10/23/2020 22:57	WG1564334
(S) 1,2-Dichloroethane-d4	119			70.0-130		10/23/2020 22:57	WG1564334

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.8		1.64	4.07	1	10/23/2020 20:14	WG1563260
C28-C40 Oil Range	37.8		0.279	4.07	1	10/23/2020 20:14	WG1563260
(S) o-Terphenyl	99.1			18.0-148		10/23/2020 20:14	WG1563260

Collected date/time: 10/13/20 10:30

L1274488

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.8		1	10/22/2020 04:25	WG1562859

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	12.4	J	9.60	20.9	1	10/22/2020 00:36	WG1562895

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	0.0448	B J	0.0226	0.104	1	10/23/2020 02:00	WG1564026
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120		10/23/2020 02:00	WG1564026

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		0.000508	0.00109	1	10/24/2020 04:42	WG1564657
Toluene	U		0.00141	0.00544	1	10/24/2020 04:42	WG1564657
Ethylbenzene	U		0.000801	0.00272	1	10/24/2020 04:42	WG1564657
Total Xylenes	0.00292	B J	0.000957	0.00707	1	10/24/2020 04:42	WG1564657
(S) Toluene-d8	100			75.0-131		10/24/2020 04:42	WG1564657
(S) 4-Bromofluorobenzene	106			67.0-138		10/24/2020 04:42	WG1564657
(S) 1,2-Dichloroethane-d4	87.3			70.0-130		10/24/2020 04:42	WG1564657

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5.31		1.68	4.17	1	10/23/2020 05:16	WG1563260
C28-C40 Oil Range	20.1		0.286	4.17	1	10/23/2020 05:16	WG1563260
(S) o-Terphenyl	94.0			18.0-148		10/23/2020 05:16	WG1563260

Collected date/time: 10/13/20 11:00

L1274488

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.2		1	10/22/2020 04:25	WG1562859

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		9.76	21.2	1	10/22/2020 00:46	WG1562895

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	0.0307	B J	0.0230	0.106	1	10/23/2020 02:21	WG1564026
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120		10/23/2020 02:21	WG1564026

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		0.000524	0.00112	1	10/24/2020 05:02	WG1564657
Toluene	U		0.00146	0.00561	1	10/24/2020 05:02	WG1564657
Ethylbenzene	U		0.000827	0.00281	1	10/24/2020 05:02	WG1564657
Total Xylenes	0.00224	B J	0.000988	0.00729	1	10/24/2020 05:02	WG1564657
(S) Toluene-d8	102			75.0-131		10/24/2020 05:02	WG1564657
(S) 4-Bromofluorobenzene	105			67.0-138		10/24/2020 05:02	WG1564657
(S) 1,2-Dichloroethane-d4	84.1			70.0-130		10/24/2020 05:02	WG1564657

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	8.86		1.71	4.24	1	10/23/2020 05:29	WG1563260
C28-C40 Oil Range	25.1		0.291	4.24	1	10/23/2020 05:29	WG1563260
(S) o-Terphenyl	90.9			18.0-148		10/23/2020 05:29	WG1563260

Collected date/time: 10/13/20 11:30

L1274488

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.5		1	10/22/2020 04:25	WG1562859

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	24.9		9.53	20.7	1	10/22/2020 00:55	WG1562895

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	0.0541	B J	0.0225	0.104	1	10/23/2020 02:41	WG1564026
(S) a,a,a-Trifluorotoluene(FID)	92.6			77.0-120		10/23/2020 02:41	WG1564026

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Benzene	U		0.000500	0.00107	1	10/24/2020 05:23	WG1564657
Toluene	0.00166	J	0.00139	0.00536	1	10/24/2020 05:23	WG1564657
Ethylbenzene	0.000877	J	0.000790	0.00268	1	10/24/2020 05:23	WG1564657
Total Xylenes	0.00321	B J	0.000943	0.00697	1	10/24/2020 05:23	WG1564657
(S) Toluene-d8	102			75.0-131		10/24/2020 05:23	WG1564657
(S) 4-Bromofluorobenzene	105			67.0-138		10/24/2020 05:23	WG1564657
(S) 1,2-Dichloroethane-d4	84.6			70.0-130		10/24/2020 05:23	WG1564657

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	10.9		1.67	4.14	1	10/23/2020 20:00	WG1563260
C28-C40 Oil Range	38.3		0.284	4.14	1	10/23/2020 20:00	WG1563260
(S) o-Terphenyl	97.4			18.0-148		10/23/2020 20:00	WG1563260

Collected date/time: 10/13/20 12:00

L1274488

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.9		1	10/22/2020 04:25	WG1562859

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	55.6		9.80	21.3	1	10/22/2020 01:24	WG1562895

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	0.102	J	0.0231	0.107	1	10/23/2020 00:38	WG1563760
(S) a,a,a-Trifluorotoluene(FID)	99.6			77.0-120		10/23/2020 00:38	WG1563760

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		0.000528	0.00113	1	10/24/2020 05:43	WG1564657
Toluene	U		0.00147	0.00565	1	10/24/2020 05:43	WG1564657
Ethylbenzene	U		0.000833	0.00283	1	10/24/2020 05:43	WG1564657
Total Xylenes	0.00101	B J	0.000994	0.00735	1	10/24/2020 05:43	WG1564657
(S) Toluene-d8	100			75.0-131		10/24/2020 05:43	WG1564657
(S) 4-Bromofluorobenzene	104			67.0-138		10/24/2020 05:43	WG1564657
(S) 1,2-Dichloroethane-d4	84.7			70.0-130		10/24/2020 05:43	WG1564657

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.46		1.71	4.26	1	10/23/2020 19:47	WG1563260
C28-C40 Oil Range	21.3		0.292	4.26	1	10/23/2020 19:47	WG1563260
(S) o-Terphenyl	96.3			18.0-148		10/23/2020 19:47	WG1563260

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

Collected date/time: 10/13/20 12:30

L1274488

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.1		1	10/22/2020 04:25	WG1562859

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	219		9.68	21.0	1	10/22/2020 01:33	WG1562895

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	0.0447	J	0.0228	0.105	1	10/23/2020 01:00	WG1563760
(S) a,a,a-Trifluorotoluene(FID)	99.9			77.0-120		10/23/2020 01:00	WG1563760

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		0.000515	0.00110	1	10/24/2020 06:04	WG1564657
Toluene	U		0.00143	0.00552	1	10/24/2020 06:04	WG1564657
Ethylbenzene	U		0.000813	0.00276	1	10/24/2020 06:04	WG1564657
Total Xylenes	0.00127	B J	0.000971	0.00717	1	10/24/2020 06:04	WG1564657
(S) Toluene-d8	101			75.0-131		10/24/2020 06:04	WG1564657
(S) 4-Bromofluorobenzene	106			67.0-138		10/24/2020 06:04	WG1564657
(S) 1,2-Dichloroethane-d4	86.1			70.0-130		10/24/2020 06:04	WG1564657

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.10		1.69	4.21	1	10/23/2020 19:20	WG1563260
C28-C40 Oil Range	21.7		0.288	4.21	1	10/23/2020 19:20	WG1563260
(S) o-Terphenyl	91.5			18.0-148		10/23/2020 19:20	WG1563260

Collected date/time: 10/13/20 13:00

L1274488

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.8		1	10/22/2020 04:11	WG1562862

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	452		9.81	21.3	1	10/22/2020 01:43	WG1562895

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	0.0482	J	0.0231	0.107	1	10/23/2020 01:23	WG1563760
(S)	99.8			77.0-120		10/23/2020 01:23	WG1563760
a,a,a-Trifluorotoluene(FID)							

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		0.000529	0.00113	1	10/24/2020 06:24	WG1564657
Toluene	U		0.00147	0.00566	1	10/24/2020 06:24	WG1564657
Ethylbenzene	U		0.000835	0.00283	1	10/24/2020 06:24	WG1564657
Total Xylenes	0.00114	B J	0.000997	0.00736	1	10/24/2020 06:24	WG1564657
(S) Toluene-d8	100			75.0-131		10/24/2020 06:24	WG1564657
(S) 4-Bromofluorobenzene	107			67.0-138		10/24/2020 06:24	WG1564657
(S) 1,2-Dichloroethane-d4	85.5			70.0-130		10/24/2020 06:24	WG1564657

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	11.1		1.72	4.27	1	10/23/2020 05:03	WG1563260
C28-C40 Oil Range	24.2		0.292	4.27	1	10/23/2020 05:03	WG1563260
(S) o-Terphenyl	84.9			18.0-148		10/23/2020 05:03	WG1563260

QUALITY CONTROL SUMMARY

L1274488-01.02.03.04.05.06.07.08.09

WG1562859
Total Solids by Method 2540 G-2011

Method Blank (MB)

(MB) R3584398-1 10/22/20 04:25

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1274488-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1274488-05 10/22/20 04:25 • (DUP) R3584398-3 10/22/20 04:25

Analyte	Original Result		DUP Result		Dilution		DUP RPD		DUP Qualifier		DUP RPD Limits	
	%		%				%				%	
Total Solids	95.8		95.9		1		0.101				10	

Laboratory Control Sample (LCS)

(LCS) R3584398-2 10/22/20 04:25

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

QUALITY CONTROL SUMMARY

L1274488-10

WG1562862
Total Solids by Method 2540 G-2011

Method Blank (MB)

(MB) R3584393-1 10/22/20 04:11

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1274494-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1274494-02 10/22/20 04:11 • (DUP) R3584393-3 10/22/20 04:11

Analyte	Original Result		DUP Result		DUP RPD		DUP Qualifier		DUP RPD Limits	
	%		%		%				%	
Total Solids	87.7		87.3		1	0.465			10	

Laboratory Control Sample (LCS)

(LCS) R3584393-2 10/22/20 04:11

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

Method Blank (MB)

(MB) R3584435-1 10/21/20 23:07

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

L1274488-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1274488-01 10/21/20 23:49 • (DUP) R3584435-3 10/21/20 23:58

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

L1274959-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1274959-09 10/22/20 03:47 • (DUP) R3584435-6 10/22/20 03:56

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

Laboratory Control Sample (LCS)

(LCS) R3584435-2 10/21/20 23:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	208	104	90.0-110	

L1274488-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274488-10 10/22/20 01:43 • (MS) R3584435-4 10/22/20 01:52 • (MSD) R3584435-5 10/22/20 02:02

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result mg/kg	MS Rec. %	MSD Result (dry) mg/kg	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	533	452	1010	104	996	102	1	80.0-120		1.22		20

Method Blank (MB)

(MB) R3585026-3 10/22/20 20:08

Analyte	TPH (GC/FID) Low Fraction	U	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
(S) a,a,a-Trifluorotoluene(FID)		101		0.0217	0.0217	77.0-120

Laboratory Control Sample (LCS)

(LCS) R3585026-2 10/22/20 19:00

Analyte	TPH (GC/FID) Low Fraction	5.50	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) a,a,a-Trifluorotoluene(FID)				6.18	112	72.0-127	

1C

2T

3S

4C

5S

6Qc

7GI

8AI

9Sc

Received by OCD: 2/12/2021 3:21:27 PM

Method Blank (MB)

(MB) R3584835-2 10/22/20 19:30					
	MB Result	MB Qualifier	MB MDL	MB RDL	
	mg/kg		mg/kg	mg/kg	
Analyte					
TPH (GC/FID) Low Fraction	0.0347	J	0.0217	0.100	
(S)					
a,a,a-Trifluorotoluene(FID)	104			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3584835-1 10/22/20 18:39					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Analyte					
TPH (GC/FID) Low Fraction	5.50	5.74	104	72.0-127	
(S)					
a,a,a-Trifluorotoluene(FID)		114		77.0-120	

L1274550-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274550-03 10/23/20 03:02 • (MS) R3584835-3 10/23/20 06:08 • (MSD) R3584835-4 10/23/20 06:29									
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%	
Analyte									
TPH (GC/FID) Low Fraction	106	2.00	83.7	87.7	77.1	80.8	25	10.0-151	4.67
(S)									
a,a,a-Trifluorotoluene(FID)					113	112		77.0-120	28

Method Blank (MB)

(MB) R3585116-3 10/23/20 16:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	111			75.0-131
(S) 4-Bromofluorobenzene	105			67.0-138
(S) 1,2-Dichloroethane-d4	106			70.0-130

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

(LCS) R3585116-1 10/23/20 15:27 • (LCSD) R3585116-2 10/23/20 15:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.107	0.109	85.6	70.0-123			1.85	20
Ethylbenzene	0.125	0.132	0.133	106	74.0-126			0.755	20
Toluene	0.125	0.135	0.134	108	75.0-121			0.743	20
Xylenes, Total	0.375	0.423	0.414	113	72.0-127			2.15	20
(S) Toluene-d8				108	75.0-131				
(S) 4-Bromofluorobenzene				106	67.0-138				
(S) 1,2-Dichloroethane-d4				105	70.0-130				

L1274488-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274488-04 10/23/20 22:57 • (MS) R3585116-4 10/24/20 00:12 • (MSD) R3585116-5 10/24/20 00:31

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	0.129	0.00106	0.117	0.103	89.6	79.2	1	10.0-149		12.2	37	
Ethylbenzene	0.129	U	0.156	0.141	121	109	1	10.0-160		10.5	38	
Toluene	0.129	0.00134	0.161	0.142	125	110	1	10.0-156		13.0	38	
Xylenes, Total	0.388	U	0.489	0.431	126	111	1	10.0-160		12.6	38	
(S) Toluene-d8					110	107		75.0-131				
(S) 4-Bromofluorobenzene					107	107		67.0-138				
(S) 1,2-Dichloroethane-d4					95.4	96.9		70.0-130				

Method Blank (MB)

(MB) R3585299-3 10/24/20 04:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	96.6			67.0-138
(S) 1,2-Dichloroethane-d4	82.2			70.0-130

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

(LCS) R3585299-1 10/24/20 03:37 • (LCSD) R3585299-2 10/24/20 03:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.131	0.130	105	70.0-123			0.766	20
Ethylbenzene	0.125	0.116	0.108	92.8	74.0-126			7.14	20
Toluene	0.125	0.129	0.117	103	75.0-121			9.76	20
Xylenes, Total	0.375	0.347	0.329	92.5	72.0-127			5.33	20
(S) Toluene-d8				106	75.0-131				
(S) 4-Bromofluorobenzene				92.8	67.0-138				
(S) 1,2-Dichloroethane-d4				87.1	70.0-130				

L1274699-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274699-17 10/24/20 10:27 • (MS) R3585299-4 10/24/20 12:09 • (MSD) R3585299-5 10/24/20 12:29

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	RPD %	RPD Limits %
Benzene	1.00	0.223	1.62	1.52	140	130	8	10.0-149		6.37	37
Ethylbenzene	1.00	0.113	1.17	1.04	106	92.7	8	10.0-160		11.8	38
Toluene	1.00	0.292	1.83	1.67	154	138	8	10.0-156		9.14	38
Xylenes, Total	3.00	0.508	4.06	3.71	118	107	8	10.0-160		9.01	38
(S) Toluene-d8					107	103		75.0-131			
(S) 4-Bromofluorobenzene					95.4	94.5		67.0-138			
(S) 1,2-Dichloroethane-d4					83.9	86.8		70.0-130			

Method Blank (MB)

(MB) R3585682-2 10/24/20 04:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	0.00198	J	0.000880	0.00650
(S) Toluene-d8	99.9			75.0-131
(S) 4-Bromofluorobenzene	105			67.0-138
(S) 1,2-Dichloroethane-d4	84.6			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3585682-1 10/24/20 03:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.121	96.8	70.0-123	
Ethylbenzene	0.125	0.119	95.2	74.0-126	
Toluene	0.125	0.112	89.6	75.0-121	
Xylenes, Total	0.375	0.369	98.4	72.0-127	
(S) Toluene-d8			100	75.0-131	
(S) 4-Bromofluorobenzene			104	67.0-138	
(S) 1,2-Dichloroethane-d4			89.3	70.0-130	

QUALITY CONTROL SUMMARY

L1274488-01.02.03.04.05.06.07.08.09.10

WG1563260
Semi-Volatile Organic Compounds (GC) by Method 8015

Method Blank (MB)

(MB) R3584675-1 10/22/20 22:20					
Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	
C10-C28 Diesel Range	U	1.61	0.274	4.00	
C28-C40 Oil Range	U	0.274		4.00	
(S) o-Terphenyl	86.5			18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3584675-2 10/22/20 22:33					
Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	48.3	96.6	50.0-150	
(S) o-Terphenyl		113		18.0-148	

L1274449-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274449-02 10/22/20 23:26 • (MS) R3584675-3 10/22/20 23:40 • (MSD) R3584675-4 10/22/20 23:53									
Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD Limits %
C10-C28 Diesel Range	49.7	U	46.4	47.3	93.4	95.2	1	50.0-150 18.0-148	1.92 20
(S) o-Terphenyl					105	108			

Guide to Reading and Understanding Your Laboratory Report

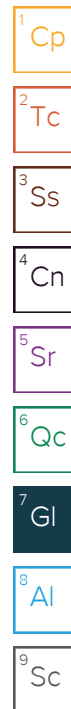
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.



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* 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 National.

State Accreditations

Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky ^{1 6}	90010
Kentucky ²	16
Louisiana	AI30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LA000356
South Carolina	84004
South Dakota	n/a
Tennessee ^{1 4}	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

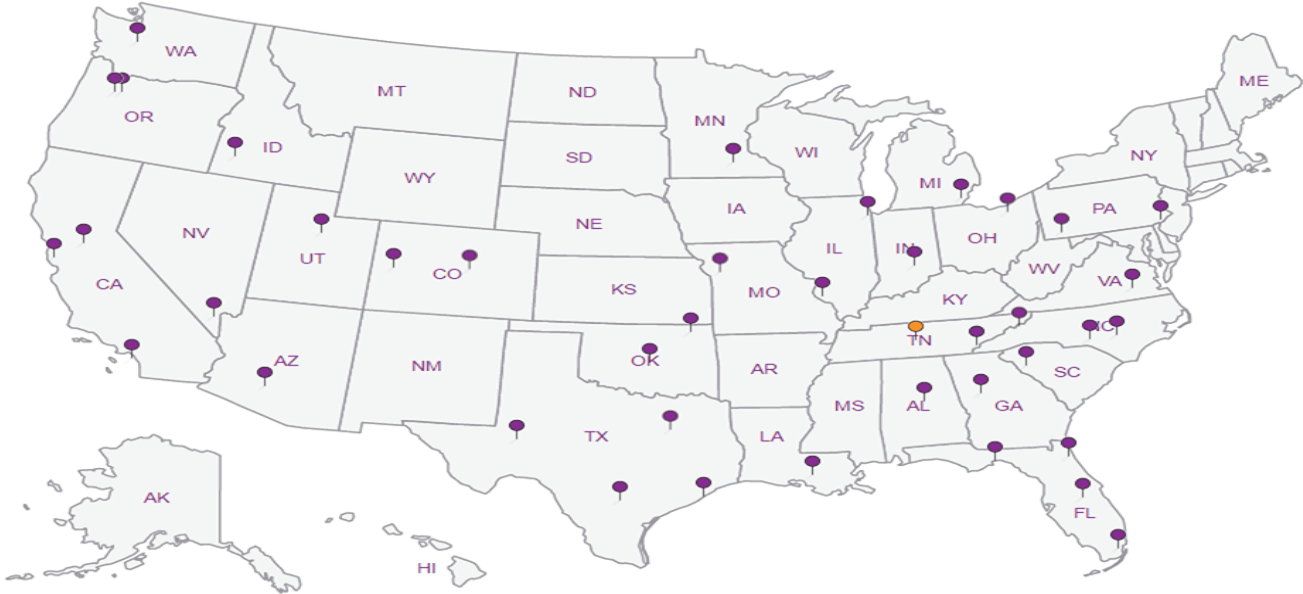
A2LA – ISO 17025	1461.01
A2LA – ISO 17025 ⁵	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP, LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.




4274488

Page: 1 of 1

Analysis Request of Chain of Custody Record

[illegible]RAD SCHEME <0.5 mR/hr
$$2.5 \cdot 1 = 2.446_k$$

Pace Analytical National Center for Testing & Innovation Cooler Receipt Form

Client:	COPTEBA		61274488
Cooler Received/Opened On:	10 / 16 / 20	Temperature:	24
Received By:	JOEY BRENT		
Signature:			
Receipt Check List			
COC Seal Present / Intact?	NP	Yes	No
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			



ANALYTICAL REPORT

October 27, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group: L1274845
Samples Received: 10/17/2020
Project Number: 212C-MD-02110
Description: Vacuum ABO Battery #4 Releases

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

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.



Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	4
Cn: Case Narrative	12
Sr: Sample Results	13
BH-1 (0'-1') L1274845-01	13
BH-1 (2'-3') L1274845-02	14
BH-1 (4'-5') L1274845-03	15
BH-1 (6'-7') L1274845-04	16
BH-1 (9'-10') L1274845-05	17
BH-1 (14'-15') L1274845-06	18
BH-1 (19'-20') L1274845-07	19
BH-2 (0'-1') L1274845-08	20
BH-2 (2'-3') L1274845-09	21
BH-2 (4'-5') L1274845-10	22
BH-2 (6'-7') L1274845-11	23
BH-2 (9'-10') L1274845-12	24
BH-2 (14'-15') L1274845-13	25
BH-2 (19'-20') L1274845-14	26
BH-2 (24'-25') L1274845-15	27
BH-2 (29'-30') L1274845-16	28
BH-2 (34'-35') L1274845-17	29
BH-3 (0'-1') L1274845-18	30
BH-3 (2'-3') L1274845-19	31
BH-3 (4'-5') L1274845-20	32
BH-3 (6'-7') L1274845-21	33
BH-3 (9'-10') L1274845-22	34
BH-3 (14'-15') L1274845-23	35
BH-3 (19'-20') L1274845-24	36
BH-7 (0'-1') L1274845-25	37
BH-7 (2'-3') L1274845-26	38
BH-7 (4'-5') L1274845-27	39
BH-7 (6'-7') L1274845-28	40
BH-7 (9'-10') L1274845-29	41
BH-9 (0'-1') L1274845-30	42
BH-9 (2'-3') L1274845-31	43
BH-9 (4'-5') L1274845-32	44
BH-10 (0'-1') L1274845-33	45
BH-10 (2'-3') L1274845-34	46
BH-10 (4'-5') L1274845-35	47



BH-10 (6'-7') L1274845-36	48	¹ Cp
BH-10 (9'-10') L1274845-37	49	
BH-2 (39'-40') L1274845-38	50	² Tc
Qc: Quality Control Summary	51	
Total Solids by Method 2540 G-2011	51	³ Ss
Wet Chemistry by Method 300.0	56	⁴ Cn
Volatile Organic Compounds (GC) by Method 8015D/GRO	58	
Volatile Organic Compounds (GC/MS) by Method 8260B	62	⁵ Sr
Semi-Volatile Organic Compounds (GC) by Method 8015	66	⁶ Qc
Gl: Glossary of Terms	69	⁷ Gl
Al: Accreditations & Locations	70	⁸ Al
Sc: Sample Chain of Custody	71	⁹ Sc

BH-1 (0'-1') L1274845-01 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	10/13/20 10:00	10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563471	1	10/23/20 00:48	10/23/20 01:13	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 01:39	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 03:57	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1565717	1	10/22/20 18:51	10/26/20 16:25	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 10:01	JN	Mt. Juliet, TN

BH-1 (2'-3') L1274845-02 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	10/13/20 10:10	10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563472	1	10/22/20 16:08	10/22/20 16:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 01:58	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 04:18	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 07:04	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 09:34	JN	Mt. Juliet, TN

BH-1 (4'-5') L1274845-03 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	10/13/20 10:20	10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563472	1	10/22/20 16:08	10/22/20 16:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 02:07	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 04:39	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 07:23	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 06:31	JN	Mt. Juliet, TN

BH-1 (6'-7') L1274845-04 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	10/13/20 10:30	10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563472	1	10/22/20 16:08	10/22/20 16:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 02:17	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 05:00	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 07:42	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 06:44	JN	Mt. Juliet, TN

BH-1 (9'-10') L1274845-05 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	10/13/20 10:40	10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563472	1	10/22/20 16:08	10/22/20 16:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 02:26	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 05:21	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 08:00	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 06:57	JN	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

BH-1 (14'-15') L1274845-06 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 11:00	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563472	1	10/22/20 16:08	10/22/20 16:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 02:36	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 05:42	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 08:19	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 07:10	JN	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-1 (19'-20') L1274845-07 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 11:20	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563472	1	10/22/20 16:08	10/22/20 16:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 02:46	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 06:03	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 08:38	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 07:23	JN	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-2 (0'-1') L1274845-08 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 12:00	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563472	1	10/22/20 16:08	10/22/20 16:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	5	10/22/20 20:15	10/23/20 03:14	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 06:24	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 08:56	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 10:40	JN	Mt. Juliet, TN

9 Sc

BH-2 (2'-3') L1274845-09 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 12:10	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563472	1	10/22/20 16:08	10/22/20 16:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	5	10/22/20 20:15	10/23/20 03:24	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 06:45	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 09:15	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 09:47	JN	Mt. Juliet, TN

BH-2 (4'-5') L1274845-10 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 12:20	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563472	1	10/22/20 16:08	10/22/20 16:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 03:33	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 07:06	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 09:34	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 07:36	JN	Mt. Juliet, TN

BH-2 (6'-7') L1274845-11 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	10/13/20 12:30	10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563472	1	10/22/20 16:08	10/22/20 16:16	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 04:02	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 07:26	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 09:53	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 07:49	JN	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-2 (9'-10') L1274845-12 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	10/13/20 12:40	10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563473	1	10/23/20 00:28	10/23/20 00:45	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 04:11	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 07:49	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 10:12	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 09:21	JN	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-2 (14'-15') L1274845-13 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	10/13/20 13:00	10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563473	1	10/23/20 00:28	10/23/20 00:45	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 04:21	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 08:09	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 10:30	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 09:08	JN	Mt. Juliet, TN

9 Sc

BH-2 (19'-20') L1274845-14 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	10/13/20 13:20	10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563473	1	10/23/20 00:28	10/23/20 00:45	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 04:30	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 08:30	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 11:36	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 08:55	JN	Mt. Juliet, TN

BH-2 (24'-25') L1274845-15 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	10/13/20 13:40	10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563473	1	10/23/20 00:28	10/23/20 00:45	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 04:44	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 08:51	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 11:55	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 08:02	JN	Mt. Juliet, TN

BH-2 (29'-30') L1274845-16 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 14:00	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563473	1	10/23/20 00:28	10/23/20 00:45	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 05:12	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 10:00	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 12:14	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 08:16	JN	Mt. Juliet, TN

BH-2 (34'-35') L1274845-17 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 14:30	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563473	1	10/23/20 00:28	10/23/20 00:45	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	1	10/22/20 20:15	10/23/20 05:22	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564078	1	10/22/20 18:51	10/23/20 10:21	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564932	1	10/22/20 18:51	10/26/20 12:33	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 08:29	JN	Mt. Juliet, TN

BH-3 (0'-1') L1274845-18 Solid

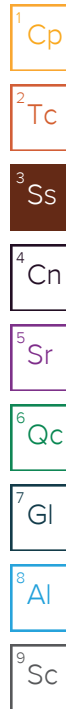
				Collected by Joe Tyler	Collected date/time 10/13/20 15:30	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563473	1	10/23/20 00:28	10/23/20 00:45	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	10	10/22/20 20:15	10/23/20 05:31	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564282	1	10/22/20 18:51	10/23/20 16:14	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 18:51	10/25/20 23:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563733	1	10/23/20 19:01	10/24/20 10:53	JN	Mt. Juliet, TN

BH-3 (2'-3') L1274845-19 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 15:40	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563473	1	10/23/20 00:28	10/23/20 00:45	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1562896	5	10/22/20 20:15	10/23/20 05:41	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564282	1	10/22/20 18:51	10/23/20 16:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 18:51	10/26/20 00:09	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1564572	1	10/24/20 07:36	10/24/20 22:10	JN	Mt. Juliet, TN

BH-3 (4'-5') L1274845-20 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 15:50	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563473	1	10/23/20 00:28	10/23/20 00:45	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/24/20 23:00	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564282	1	10/22/20 18:51	10/23/20 16:56	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 18:51	10/26/20 00:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 13:28	JN	Mt. Juliet, TN



BH-3 (6'-7') L1274845-21 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 16:00	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563473	1	10/23/20 00:28	10/23/20 00:45	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/24/20 23:19	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564282	1	10/22/20 20:54	10/23/20 17:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 00:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 09:52	JN	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-3 (9'-10') L1274845-22 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 16:20	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563474	1	10/22/20 23:42	10/23/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/24/20 23:47	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564282	1	10/22/20 20:54	10/23/20 17:37	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 01:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 10:04	JN	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-3 (14'-15') L1274845-23 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 16:40	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563474	1	10/22/20 23:42	10/23/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/24/20 23:57	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564282	1	10/22/20 20:54	10/23/20 17:57	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 01:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 12:37	JN	Mt. Juliet, TN

9 Sc

BH-3 (19'-20') L1274845-24 Solid

				Collected by Joe Tyler	Collected date/time 10/13/20 17:00	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563474	1	10/22/20 23:42	10/23/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 00:06	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 02:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 01:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 10:17	JN	Mt. Juliet, TN

BH-7 (0'-1') L1274845-25 Solid

				Collected by Joe Tyler	Collected date/time 10/14/20 10:00	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563474	1	10/22/20 23:42	10/23/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 00:35	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 03:19	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 02:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 14:19	JN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	2	10/24/20 17:28	10/26/20 08:19	JN	Mt. Juliet, TN

BH-7 (2'-3') L1274845-26 Solid

				Collected by Joe Tyler	Collected date/time 10/14/20 10:10	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563474	1	10/22/20 23:42	10/23/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 00:44	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 03:40	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 02:22	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 12:50	JN	Mt. Juliet, TN

BH-7 (4'-5') L1274845-27 Solid

				Collected by Joe Tyler	Collected date/time 10/14/20 10:20	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563474	1	10/22/20 23:42	10/23/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 00:54	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 04:00	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 02:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 10:30	JN	Mt. Juliet, TN

BH-7 (6'-7') L1274845-28 Solid

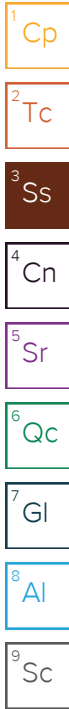
				Collected by Joe Tyler	Collected date/time 10/14/20 10:30	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563474	1	10/22/20 23:42	10/23/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 01:03	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 04:21	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 02:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 10:42	JN	Mt. Juliet, TN

BH-7 (9'-10') L1274845-29 Solid

				Collected by Joe Tyler	Collected date/time 10/14/20 10:40	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563474	1	10/22/20 23:42	10/23/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 01:13	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 04:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 03:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 10:55	JN	Mt. Juliet, TN

BH-9 (0'-1') L1274845-30 Solid

				Collected by Joe Tyler	Collected date/time 10/14/20 11:00	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563474	1	10/22/20 23:42	10/23/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 01:22	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 05:02	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 03:37	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 11:08	JN	Mt. Juliet, TN



BH-9 (2'-3') L1274845-31 Solid

				Collected by Joe Tyler	Collected date/time 10/14/20 11:10	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563474	1	10/22/20 23:42	10/23/20 00:02	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 01:32	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 05:23	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 03:56	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 13:15	JN	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

BH-9 (4'-5') L1274845-32 Solid

				Collected by Joe Tyler	Collected date/time 10/14/20 11:20	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563475	1	10/22/20 23:19	10/22/20 23:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 01:41	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 05:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 04:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 11:21	JN	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

BH-10 (0'-1') L1274845-33 Solid

				Collected by Joe Tyler	Collected date/time 10/14/20 12:00	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563475	1	10/22/20 23:19	10/22/20 23:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 09:55	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 06:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 04:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 14:07	JN	Mt. Juliet, TN

9 Sc

BH-10 (2'-3') L1274845-34 Solid

				Collected by Joe Tyler	Collected date/time 10/14/20 12:10	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563475	1	10/22/20 23:19	10/22/20 23:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 10:04	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 06:25	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 04:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 12:24	JN	Mt. Juliet, TN

BH-10 (4'-5') L1274845-35 Solid

				Collected by Joe Tyler	Collected date/time 10/14/20 12:20	Received date/time 10/17/20 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563475	1	10/22/20 23:19	10/22/20 23:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 10:33	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 06:45	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 05:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 12:12	JN	Mt. Juliet, TN

BH-10 (6'-7') L1274845-36 Solid

Collected by
Joe Tyler

Collected date/time
10/14/20 12:40

Received date/time
10/17/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563475	1	10/22/20 23:19	10/22/20 23:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 10:42	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564405	1	10/22/20 20:54	10/24/20 07:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 05:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 11:34	JN	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn

BH-10 (9'-10') L1274845-37 Solid

Collected by
Joe Tyler

Collected date/time
10/14/20 13:00

Received date/time
10/17/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563475	1	10/22/20 23:19	10/22/20 23:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 10:52	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564689	1	10/22/20 20:54	10/24/20 09:16	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564979	1	10/22/20 20:54	10/26/20 05:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 11:46	JN	Mt. Juliet, TN

⁵ Sr⁶ Qc⁷ Gl⁸ Al

BH-2 (39'-40') L1274845-38 Solid

Collected by
Joe Tyler

Collected date/time
10/13/20 00:00

Received date/time
10/17/20 08:45

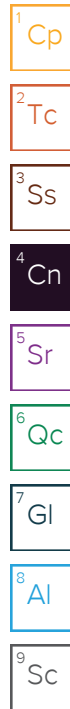
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1563475	1	10/22/20 23:19	10/22/20 23:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1564050	1	10/24/20 12:35	10/25/20 11:01	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1564689	1	10/22/20 20:54	10/24/20 09:39	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1564981	1	10/22/20 20:54	10/25/20 04:12	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1563737	1	10/24/20 17:28	10/25/20 11:59	JN	Mt. Juliet, TN

⁹ Sc

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



Collected date/time: 10/13/20 10:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	10/23/2020 01:13	WG1563471

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	642		9.50	20.6	1	10/23/2020 01:39	WG1562896

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	0.0534	J	0.0224	0.103	1	10/23/2020 03:57	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120		10/23/2020 03:57	WG1564078

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	10/26/2020 16:25	WG1565717
Toluene	0.00170	J	0.00138	0.00532	1	10/26/2020 16:25	WG1565717
Ethylbenzene	U		0.000785	0.00266	1	10/26/2020 16:25	WG1565717
Total Xylenes	0.000958	J	0.000937	0.00692	1	10/26/2020 16:25	WG1565717
(S) Toluene-d8	98.9			75.0-131		10/26/2020 16:25	WG1565717
(S) 4-Bromofluorobenzene	105			67.0-138		10/26/2020 16:25	WG1565717
(S) 1,2-Dichloroethane-d4	118			70.0-130		10/26/2020 16:25	WG1565717

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.89	J	1.66	4.13	1	10/24/2020 10:01	WG1563733
C28-C40 Oil Range	3.74	J	0.283	4.13	1	10/24/2020 10:01	WG1563733
(S) o-Terphenyl	84.5			18.0-148		10/24/2020 10:01	WG1563733

Collected date/time: 10/13/20 10:10

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.4		1	10/22/2020 16:16	WG1563472

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	340		9.54	20.7	1	10/23/2020 01:58	WG1562896

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		0.0225	0.104	1	10/23/2020 04:18	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		10/23/2020 04:18	WG1564078

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000501	0.00107	1	10/26/2020 07:04	WG1564932
Toluene	U		0.00140	0.00537	1	10/26/2020 07:04	WG1564932
Ethylbenzene	U		0.000791	0.00268	1	10/26/2020 07:04	WG1564932
Total Xylenes	U		0.000945	0.00698	1	10/26/2020 07:04	WG1564932
(S) Toluene-d8	97.0			75.0-131		10/26/2020 07:04	WG1564932
(S) 4-Bromofluorobenzene	107			67.0-138		10/26/2020 07:04	WG1564932
(S) 1,2-Dichloroethane-d4	113			70.0-130		10/26/2020 07:04	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.67	4.15	1	10/24/2020 09:34	WG1563733
C28-C40 Oil Range	1.81	J	0.284	4.15	1	10/24/2020 09:34	WG1563733
(S) o-Terphenyl	88.1			18.0-148		10/24/2020 09:34	WG1563733

Collected date/time: 10/13/20 10:20

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.2		1	10/22/2020 16:16	WG1563472

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	365		9.87	21.5	1	10/23/2020 02:07	WG1562896

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	0.0443	J	0.0233	0.107	1	10/23/2020 04:39	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	105			77.0-120		10/23/2020 04:39	WG1564078

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		0.000536	0.00115	1	10/26/2020 07:23	WG1564932
Toluene	U		0.00149	0.00573	1	10/26/2020 07:23	WG1564932
Ethylbenzene	U		0.000845	0.00287	1	10/26/2020 07:23	WG1564932
Total Xylenes	U		0.00101	0.00745	1	10/26/2020 07:23	WG1564932
(S) Toluene-d8	97.8			75.0-131		10/26/2020 07:23	WG1564932
(S) 4-Bromofluorobenzene	105			67.0-138		10/26/2020 07:23	WG1564932
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/26/2020 07:23	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.73	4.29	1	10/24/2020 06:31	WG1563733
C28-C40 Oil Range	U		0.294	4.29	1	10/24/2020 06:31	WG1563733
(S) o-Terphenyl	85.6			18.0-148		10/24/2020 06:31	WG1563733

Collected date/time: 10/13/20 10:30

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.7		1	10/22/2020 16:16	WG1563472

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	176		9.72	21.1	1	10/23/2020 02:17	WG1562896

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		0.0229	0.106	1	10/23/2020 05:00	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	111			77.0-120		10/23/2020 05:00	WG1564078

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		0.000520	0.00111	1	10/26/2020 07:42	WG1564932
Toluene	U		0.00145	0.00556	1	10/26/2020 07:42	WG1564932
Ethylbenzene	U		0.000820	0.00278	1	10/26/2020 07:42	WG1564932
Total Xylenes	U		0.000979	0.00723	1	10/26/2020 07:42	WG1564932
(S) Toluene-d8	97.4			75.0-131		10/26/2020 07:42	WG1564932
(S) 4-Bromofluorobenzene	103			67.0-138		10/26/2020 07:42	WG1564932
(S) 1,2-Dichloroethane-d4	113			70.0-130		10/26/2020 07:42	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.23	1	10/24/2020 06:44	WG1563733
C28-C40 Oil Range	U		0.289	4.23	1	10/24/2020 06:44	WG1563733
(S) o-Terphenyl	89.0			18.0-148		10/24/2020 06:44	WG1563733

Collected date/time: 10/13/20 10:40

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.6		1	10/22/2020 16:16	WG1563472

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	114		9.52	20.7	1	10/23/2020 02:26	WG1562896

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	0.0672	J	0.0225	0.104	1	10/23/2020 05:21	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		10/23/2020 05:21	WG1564078

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		0.000500	0.00107	1	10/26/2020 08:00	WG1564932
Toluene	U		0.00139	0.00535	1	10/26/2020 08:00	WG1564932
Ethylbenzene	U		0.000789	0.00268	1	10/26/2020 08:00	WG1564932
Total Xylenes	U		0.000942	0.00696	1	10/26/2020 08:00	WG1564932
(S) Toluene-d8	100			75.0-131		10/26/2020 08:00	WG1564932
(S) 4-Bromofluorobenzene	104			67.0-138		10/26/2020 08:00	WG1564932
(S) 1,2-Dichloroethane-d4	113			70.0-130		10/26/2020 08:00	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.67	4.14	1	10/24/2020 06:57	WG1563733
C28-C40 Oil Range	U		0.284	4.14	1	10/24/2020 06:57	WG1563733
(S) o-Terphenyl	90.7			18.0-148		10/24/2020 06:57	WG1563733

Collected date/time: 10/13/20 11:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	10/22/2020 16:16	WG1563472

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	120		9.66	21.0	1	10/23/2020 02:36	WG1562896

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		0.0228	0.105	1	10/23/2020 05:42	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		10/23/2020 05:42	WG1564078

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		0.000514	0.00110	1	10/26/2020 08:19	WG1564932
Toluene	U		0.00143	0.00550	1	10/26/2020 08:19	WG1564932
Ethylbenzene	U		0.000811	0.00275	1	10/26/2020 08:19	WG1564932
Total Xylenes	U		0.000969	0.00715	1	10/26/2020 08:19	WG1564932
(S) Toluene-d8	96.7			75.0-131		10/26/2020 08:19	WG1564932
(S) 4-Bromofluorobenzene	105			67.0-138		10/26/2020 08:19	WG1564932
(S) 1,2-Dichloroethane-d4	114			70.0-130		10/26/2020 08:19	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.69	4.20	1	10/24/2020 07:10	WG1563733
C28-C40 Oil Range	U		0.288	4.20	1	10/24/2020 07:10	WG1563733
(S) o-Terphenyl	85.0			18.0-148		10/24/2020 07:10	WG1563733

Collected date/time: 10/13/20 11:20

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	10/22/2020 16:16	WG1563472

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	172		10.1	21.9	1	10/23/2020 02:46	WG1562896

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	0.0502	J	0.0237	0.109	1	10/23/2020 06:03	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120		10/23/2020 06:03	WG1564078

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		0.000555	0.00119	1	10/26/2020 08:38	WG1564932
Toluene	U		0.00154	0.00594	1	10/26/2020 08:38	WG1564932
Ethylbenzene	U		0.000876	0.00297	1	10/26/2020 08:38	WG1564932
Total Xylenes	U		0.00105	0.00772	1	10/26/2020 08:38	WG1564932
(S) Toluene-d8	98.9			75.0-131		10/26/2020 08:38	WG1564932
(S) 4-Bromofluorobenzene	105			67.0-138		10/26/2020 08:38	WG1564932
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/26/2020 08:38	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

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	4.37	1	10/24/2020 07:23	WG1563733
C28-C40 Oil Range	U		0.300	4.37	1	10/24/2020 07:23	WG1563733
(S) o-Terphenyl	83.1			18.0-148		10/24/2020 07:23	WG1563733

Collected date/time: 10/13/20 12:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.3		1	10/22/2020 16:16	WG1563472

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	1000		46.8	102	5	10/23/2020 03:14	WG1562896

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	10/23/2020 06:24	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		10/23/2020 06:24	WG1564078

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		0.000483	0.00103	1	10/26/2020 08:56	WG1564932
Toluene	U		0.00134	0.00517	1	10/26/2020 08:56	WG1564932
Ethylbenzene	U		0.000762	0.00259	1	10/26/2020 08:56	WG1564932
Total Xylenes	U		0.000910	0.00672	1	10/26/2020 08:56	WG1564932
(S) Toluene-d8	96.8			75.0-131		10/26/2020 08:56	WG1564932
(S) 4-Bromofluorobenzene	104			67.0-138		10/26/2020 08:56	WG1564932
(S) 1,2-Dichloroethane-d4	113			70.0-130		10/26/2020 08:56	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	13.3		1.64	4.07	1	10/24/2020 10:40	WG1563733
C28-C40 Oil Range	30.2		0.279	4.07	1	10/24/2020 10:40	WG1563733
(S) o-Terphenyl	95.3			18.0-148		10/24/2020 10:40	WG1563733

Collected date/time: 10/13/20 12:10

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.9		1	10/22/2020 16:16	WG1563472

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	1050		47.9	104	5	10/23/2020 03:24	WG1562896

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	0.0245	J	0.0226	0.104	1	10/23/2020 06:45	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		10/23/2020 06:45	WG1564078

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		0.000507	0.00109	1	10/26/2020 09:15	WG1564932
Toluene	U		0.00141	0.00543	1	10/26/2020 09:15	WG1564932
Ethylbenzene	U		0.000800	0.00271	1	10/26/2020 09:15	WG1564932
Total Xylenes	U		0.000955	0.00705	1	10/26/2020 09:15	WG1564932
(S) Toluene-d8	101			75.0-131		10/26/2020 09:15	WG1564932
(S) 4-Bromofluorobenzene	102			67.0-138		10/26/2020 09:15	WG1564932
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/26/2020 09:15	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.11	J	1.68	4.17	1	10/24/2020 09:47	WG1563733
C28-C40 Oil Range	4.28		0.286	4.17	1	10/24/2020 09:47	WG1563733
(S) o-Terphenyl	84.1			18.0-148		10/24/2020 09:47	WG1563733

Collected date/time: 10/13/20 12:20

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.4		1	10/22/2020 16:16	WG1563472

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	346		9.44	20.5	1	10/23/2020 03:33	WG1562896

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	0.0313	J	0.0223	0.103	1	10/23/2020 07:06	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		10/23/2020 07:06	WG1564078

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		0.000492	0.00105	1	10/26/2020 09:34	WG1564932
Toluene	U		0.00137	0.00526	1	10/26/2020 09:34	WG1564932
Ethylbenzene	U		0.000776	0.00263	1	10/26/2020 09:34	WG1564932
Total Xylenes	U		0.000926	0.00684	1	10/26/2020 09:34	WG1564932
(S) Toluene-d8	97.4			75.0-131		10/26/2020 09:34	WG1564932
(S) 4-Bromofluorobenzene	97.8			67.0-138		10/26/2020 09:34	WG1564932
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/26/2020 09:34	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.65	4.11	1	10/24/2020 07:36	WG1563733
C28-C40 Oil Range	U		0.281	4.11	1	10/24/2020 07:36	WG1563733
(S) o-Terphenyl	86.1			18.0-148		10/24/2020 07:36	WG1563733

Collected date/time: 10/13/20 12:30

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.9		1	10/22/2020 16:16	WG1563472

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	371		9.60	20.9	1	10/23/2020 04:02	WG1562896

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		0.0226	0.104	1	10/23/2020 07:26	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120		10/23/2020 07:26	WG1564078

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		0.000507	0.00109	1	10/26/2020 09:53	WG1564932
Toluene	U		0.00141	0.00543	1	10/26/2020 09:53	WG1564932
Ethylbenzene	U		0.000800	0.00271	1	10/26/2020 09:53	WG1564932
Total Xylenes	U		0.000956	0.00706	1	10/26/2020 09:53	WG1564932
(S) Toluene-d8	97.7			75.0-131		10/26/2020 09:53	WG1564932
(S) 4-Bromofluorobenzene	103			67.0-138		10/26/2020 09:53	WG1564932
(S) 1,2-Dichloroethane-d4	114			70.0-130		10/26/2020 09:53	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.68	4.17	1	10/24/2020 07:49	WG1563733
C28-C40 Oil Range	U		0.286	4.17	1	10/24/2020 07:49	WG1563733
(S) o-Terphenyl	91.9			18.0-148		10/24/2020 07:49	WG1563733

Collected date/time: 10/13/20 12:40

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.3		1	10/23/2020 00:45	WG1563473

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	144		9.66	21.0	1	10/23/2020 04:11	WG1562896

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		0.0228	0.105	1	10/23/2020 07:49	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		10/23/2020 07:49	WG1564078

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	0.000544	J	0.000514	0.00110	1	10/26/2020 10:12	WG1564932
Toluene	U		0.00143	0.00550	1	10/26/2020 10:12	WG1564932
Ethylbenzene	U		0.000811	0.00275	1	10/26/2020 10:12	WG1564932
Total Xylenes	U		0.000968	0.00715	1	10/26/2020 10:12	WG1564932
(S) Toluene-d8	97.3			75.0-131		10/26/2020 10:12	WG1564932
(S) 4-Bromofluorobenzene	102			67.0-138		10/26/2020 10:12	WG1564932
(S) 1,2-Dichloroethane-d4	114			70.0-130		10/26/2020 10:12	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.69	4.20	1	10/24/2020 09:21	WG1563733
C28-C40 Oil Range	U		0.288	4.20	1	10/24/2020 09:21	WG1563733
(S) o-Terphenyl	81.0			18.0-148		10/24/2020 09:21	WG1563733

Collected date/time: 10/13/20 13:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.9		1	10/23/2020 00:45	WG1563473

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	986		11.5	25.0	1	10/23/2020 04:21	WG1562896

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	10/23/2020 08:09	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	112			77.0-120		10/23/2020 08:09	WG1564078

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		0.000703	0.00151	1	10/26/2020 10:30	WG1564932
Toluene	U		0.00196	0.00753	1	10/26/2020 10:30	WG1564932
Ethylbenzene	U		0.00111	0.00376	1	10/26/2020 10:30	WG1564932
Total Xylenes	U		0.00132	0.00978	1	10/26/2020 10:30	WG1564932
(S) Toluene-d8	98.1			75.0-131		10/26/2020 10:30	WG1564932
(S) 4-Bromofluorobenzene	105			67.0-138		10/26/2020 10:30	WG1564932
(S) 1,2-Dichloroethane-d4	114			70.0-130		10/26/2020 10:30	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

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	10/24/2020 09:08	WG1563733
C28-C40 Oil Range	U		0.343	5.00	1	10/24/2020 09:08	WG1563733
(S) o-Terphenyl	80.0			18.0-148		10/24/2020 09:08	WG1563733

Collected date/time: 10/13/20 13:20

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	10/23/2020 00:45	WG1563473

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	471		10.4	22.5	1	10/23/2020 04:30	WG1562896

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	0.0253	J	0.0244	0.113	1	10/23/2020 08:30	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		10/23/2020 08:30	WG1564078

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		0.000584	0.00125	1	10/26/2020 11:36	WG1564932
Toluene	U		0.00163	0.00626	1	10/26/2020 11:36	WG1564932
Ethylbenzene	U		0.000922	0.00313	1	10/26/2020 11:36	WG1564932
Total Xylenes	U		0.00110	0.00813	1	10/26/2020 11:36	WG1564932
(S) Toluene-d8	99.7			75.0-131		10/26/2020 11:36	WG1564932
(S) 4-Bromofluorobenzene	103			67.0-138		10/26/2020 11:36	WG1564932
(S) 1,2-Dichloroethane-d4	113			70.0-130		10/26/2020 11:36	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.45	J	1.81	4.50	1	10/24/2020 08:55	WG1563733
C28-C40 Oil Range	3.26	J	0.308	4.50	1	10/24/2020 08:55	WG1563733
(S) o-Terphenyl	89.9			18.0-148		10/24/2020 08:55	WG1563733

Collected date/time: 10/13/20 13:40

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.9		1	10/23/2020 00:45	WG1563473

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	310		9.70	21.1	1	10/23/2020 04:44	WG1562896

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		0.0229	0.105	1	10/23/2020 08:51	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120		10/23/2020 08:51	WG1564078

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		0.000518	0.00111	1	10/26/2020 11:55	WG1564932
Toluene	U		0.00144	0.00555	1	10/26/2020 11:55	WG1564932
Ethylbenzene	U		0.000817	0.00277	1	10/26/2020 11:55	WG1564932
Total Xylenes	U		0.000976	0.00721	1	10/26/2020 11:55	WG1564932
(S) Toluene-d8	98.8			75.0-131		10/26/2020 11:55	WG1564932
(S) 4-Bromofluorobenzene	102			67.0-138		10/26/2020 11:55	WG1564932
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/26/2020 11:55	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.38	J	1.70	4.22	1	10/24/2020 08:02	WG1563733
C28-C40 Oil Range	U		0.289	4.22	1	10/24/2020 08:02	WG1563733
(S) o-Terphenyl	86.9			18.0-148		10/24/2020 08:02	WG1563733

Collected date/time: 10/13/20 14:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.7		1	10/23/2020 00:45	WG1563473

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	282		9.61	20.9	1	10/23/2020 05:12	WG1562896

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

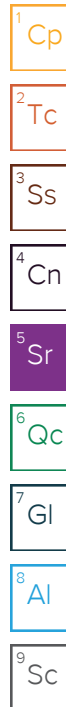
Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0227	0.104	1	10/23/2020 10:00	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		10/23/2020 10:00	WG1564078

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		0.000509	0.00109	1	10/26/2020 12:14	WG1564932
Toluene	U		0.00142	0.00545	1	10/26/2020 12:14	WG1564932
Ethylbenzene	U		0.000803	0.00272	1	10/26/2020 12:14	WG1564932
Total Xylenes	U		0.000959	0.00708	1	10/26/2020 12:14	WG1564932
(S) Toluene-d8	101			75.0-131		10/26/2020 12:14	WG1564932
(S) 4-Bromofluorobenzene	104			67.0-138		10/26/2020 12:14	WG1564932
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/26/2020 12:14	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.93	J	1.68	4.18	1	10/24/2020 08:16	WG1563733
C28-C40 Oil Range	U		0.286	4.18	1	10/24/2020 08:16	WG1563733
(S) o-Terphenyl	83.5			18.0-148		10/24/2020 08:16	WG1563733



Collected date/time: 10/13/20 14:30

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.1		1	10/23/2020 00:45	WG1563473

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	239		9.57	20.8	1	10/23/2020 05:22	WG1562896

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		0.0226	0.104	1	10/23/2020 10:21	WG1564078
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		10/23/2020 10:21	WG1564078

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000505	0.00108	1	10/26/2020 12:33	WG1564932
Toluene	U		0.00141	0.00540	1	10/26/2020 12:33	WG1564932
Ethylbenzene	U		0.000797	0.00270	1	10/26/2020 12:33	WG1564932
Total Xylenes	U		0.000951	0.00703	1	10/26/2020 12:33	WG1564932
(S) Toluene-d8	101			75.0-131		10/26/2020 12:33	WG1564932
(S) 4-Bromofluorobenzene	105			67.0-138		10/26/2020 12:33	WG1564932
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/26/2020 12:33	WG1564932

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.03	J	1.67	4.16	1	10/24/2020 08:29	WG1563733
C28-C40 Oil Range	U		0.285	4.16	1	10/24/2020 08:29	WG1563733
(S) o-Terphenyl	84.3			18.0-148		10/24/2020 08:29	WG1563733

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

Collected date/time: 10/13/20 15:30

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.5		1	10/23/2020 00:45	WG1563473

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	4650		94.4	205	10	10/23/2020 05:31	WG1562896

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	0.0568	B J	0.0223	0.103	1	10/23/2020 16:14	WG1564282
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		10/23/2020 16:14	WG1564282

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000547	J	0.000491	0.00105	1	10/25/2020 23:50	WG1564979
Toluene	U		0.00137	0.00526	1	10/25/2020 23:50	WG1564979
Ethylbenzene	0.000911	J	0.000775	0.00263	1	10/25/2020 23:50	WG1564979
Total Xylenes	0.00341	J	0.000926	0.00684	1	10/25/2020 23:50	WG1564979
(S) Toluene-d8	114			75.0-131		10/25/2020 23:50	WG1564979
(S) 4-Bromofluorobenzene	92.7			67.0-138		10/25/2020 23:50	WG1564979
(S) 1,2-Dichloroethane-d4	80.8			70.0-130		10/25/2020 23:50	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	99.7		1.65	4.10	1	10/24/2020 10:53	WG1563733
C28-C40 Oil Range	136		0.281	4.10	1	10/24/2020 10:53	WG1563733
(S) o-Terphenyl	72.1			18.0-148		10/24/2020 10:53	WG1563733

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

Collected date/time: 10/13/20 15:40

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.0		1	10/23/2020 00:45	WG1563473

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	1530		47.4	103	5	10/23/2020 05:41	WG1562896

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	0.0346	B J	0.0224	0.103	1	10/23/2020 16:35	WG1564282
(S) a,a,a-Trifluorotoluene(FID)	99.3			77.0-120		10/23/2020 16:35	WG1564282

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		0.000496	0.00106	1	10/26/2020 00:09	WG1564979
Toluene	U		0.00138	0.00531	1	10/26/2020 00:09	WG1564979
Ethylbenzene	U		0.000783	0.00266	1	10/26/2020 00:09	WG1564979
Total Xylenes	U		0.000935	0.00691	1	10/26/2020 00:09	WG1564979
(S) Toluene-d8	116			75.0-131		10/26/2020 00:09	WG1564979
(S) 4-Bromofluorobenzene	90.3			67.0-138		10/26/2020 00:09	WG1564979
(S) 1,2-Dichloroethane-d4	79.1			70.0-130		10/26/2020 00:09	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	22.5		1.66	4.12	1	10/24/2020 22:10	WG1564572
C28-C40 Oil Range	28.4		0.283	4.12	1	10/24/2020 22:10	WG1564572
(S) o-Terphenyl	79.3			18.0-148		10/24/2020 22:10	WG1564572

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

Collected date/time: 10/13/20 15:50

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.6		1	10/23/2020 00:45	WG1563473

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	77.0		9.33	20.3	1	10/24/2020 23:00	WG1564050

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	0.0336	B J	0.0220	0.101	1	10/23/2020 16:56	WG1564282
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120		10/23/2020 16:56	WG1564282

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		0.000481	0.00103	1	10/26/2020 00:28	WG1564979
Toluene	U		0.00134	0.00515	1	10/26/2020 00:28	WG1564979
Ethylbenzene	U		0.000759	0.00257	1	10/26/2020 00:28	WG1564979
Total Xylenes	U		0.000906	0.00669	1	10/26/2020 00:28	WG1564979
(S) Toluene-d8	114			75.0-131		10/26/2020 00:28	WG1564979
(S) 4-Bromofluorobenzene	89.8			67.0-138		10/26/2020 00:28	WG1564979
(S) 1,2-Dichloroethane-d4	80.9			70.0-130		10/26/2020 00:28	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.76		1.63	4.06	1	10/25/2020 13:28	WG1563737
C28-C40 Oil Range	5.52		0.278	4.06	1	10/25/2020 13:28	WG1563737
(S) o-Terphenyl	68.3			18.0-148		10/25/2020 13:28	WG1563737

Collected date/time: 10/13/20 16:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.3		1	10/23/2020 00:45	WG1563473

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	15.8	J	9.86	21.4	1	10/24/2020 23:19	WG1564050

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	0.0307	B J	0.0233	0.107	1	10/23/2020 17:16	WG1564282
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		10/23/2020 17:16	WG1564282

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		0.000534	0.00114	1	10/26/2020 00:47	WG1564979
Toluene	U		0.00149	0.00572	1	10/26/2020 00:47	WG1564979
Ethylbenzene	U		0.000843	0.00286	1	10/26/2020 00:47	WG1564979
Total Xylenes	U		0.00101	0.00744	1	10/26/2020 00:47	WG1564979
(S) Toluene-d8	117			75.0-131		10/26/2020 00:47	WG1564979
(S) 4-Bromofluorobenzene	92.5			67.0-138		10/26/2020 00:47	WG1564979
(S) 1,2-Dichloroethane-d4	78.1			70.0-130		10/26/2020 00:47	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.73	4.29	1	10/25/2020 09:52	WG1563737
C28-C40 Oil Range	0.998	B J	0.294	4.29	1	10/25/2020 09:52	WG1563737
(S) o-Terphenyl	56.6			18.0-148		10/25/2020 09:52	WG1563737

Collected date/time: 10/13/20 16:20

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.5		1	10/23/2020 00:02	WG1563474

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	66.2		9.73	21.2	1	10/24/2020 23:47	WG1564050

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	0.0236	B J	0.0230	0.106	1	10/23/2020 17:37	WG1564282
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120		10/23/2020 17:37	WG1564282

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000521	0.00112	1	10/26/2020 01:06	WG1564979
Toluene	U		0.00145	0.00558	1	10/26/2020 01:06	WG1564979
Ethylbenzene	U		0.000823	0.00279	1	10/26/2020 01:06	WG1564979
Total Xylenes	U		0.000983	0.00726	1	10/26/2020 01:06	WG1564979
(S) Toluene-d8	114			75.0-131		10/26/2020 01:06	WG1564979
(S) 4-Bromofluorobenzene	91.7			67.0-138		10/26/2020 01:06	WG1564979
(S) 1,2-Dichloroethane-d4	83.3			70.0-130		10/26/2020 01:06	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.23	1	10/25/2020 10:04	WG1563737
C28-C40 Oil Range	1.68	B J	0.290	4.23	1	10/25/2020 10:04	WG1563737
(S) o-Terphenyl	60.6			18.0-148		10/25/2020 10:04	WG1563737

Collected date/time: 10/13/20 16:40

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.9		1	10/23/2020 00:02	WG1563474

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	93.6		10.0	21.8	1	10/24/2020 23:57	WG1564050

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	0.0275	B J	0.0236	0.109	1	10/23/2020 17:57	WG1564282
(S) a,a,a-Trifluorotoluene(FID)	99.6			77.0-120		10/23/2020 17:57	WG1564282

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000549	0.00118	1	10/26/2020 01:25	WG1564979
Toluene	U		0.00153	0.00588	1	10/26/2020 01:25	WG1564979
Ethylbenzene	U		0.000867	0.00294	1	10/26/2020 01:25	WG1564979
Total Xylenes	U		0.00104	0.00765	1	10/26/2020 01:25	WG1564979
(S) Toluene-d8	113			75.0-131		10/26/2020 01:25	WG1564979
(S) 4-Bromofluorobenzene	91.8			67.0-138		10/26/2020 01:25	WG1564979
(S) 1,2-Dichloroethane-d4	81.1			70.0-130		10/26/2020 01:25	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.75	4.35	1	10/25/2020 12:37	WG1563737
C28-C40 Oil Range	0.957	B J	0.298	4.35	1	10/25/2020 12:37	WG1563737
(S) o-Terphenyl	67.2			18.0-148		10/25/2020 12:37	WG1563737

Collected date/time: 10/13/20 17:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.9		1	10/23/2020 00:02	WG1563474

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	55.3		9.70	21.1	1	10/25/2020 00:06	WG1564050

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	0.0286	B J	0.0229	0.105	1	10/24/2020 02:58	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	93.5			77.0-120		10/24/2020 02:58	WG1564405

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		0.000517	0.00111	1	10/26/2020 01:44	WG1564979
Toluene	U		0.00144	0.00554	1	10/26/2020 01:44	WG1564979
Ethylbenzene	U		0.000817	0.00277	1	10/26/2020 01:44	WG1564979
Total Xylenes	U		0.000975	0.00720	1	10/26/2020 01:44	WG1564979
(S) Toluene-d8	115			75.0-131		10/26/2020 01:44	WG1564979
(S) 4-Bromofluorobenzene	89.6			67.0-138		10/26/2020 01:44	WG1564979
(S) 1,2-Dichloroethane-d4	83.3			70.0-130		10/26/2020 01:44	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.73	J	1.70	4.22	1	10/25/2020 10:17	WG1563737
C28-C40 Oil Range	0.911	B J	0.289	4.22	1	10/25/2020 10:17	WG1563737
(S) o-Terphenyl	68.8			18.0-148		10/25/2020 10:17	WG1563737

Collected date/time: 10/14/20 10:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.2		1	10/23/2020 00:02	WG1563474

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	20.8		9.36	20.4	1	10/25/2020 00:35	WG1564050

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	0.0283	B J	0.0221	0.102	1	10/24/2020 03:19	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	93.0			77.0-120		10/24/2020 03:19	WG1564405

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000484	0.00104	1	10/26/2020 02:03	WG1564979
Toluene	U		0.00135	0.00518	1	10/26/2020 02:03	WG1564979
Ethylbenzene	U		0.000763	0.00259	1	10/26/2020 02:03	WG1564979
Total Xylenes	U		0.000912	0.00673	1	10/26/2020 02:03	WG1564979
(S) Toluene-d8	116			75.0-131		10/26/2020 02:03	WG1564979
(S) 4-Bromofluorobenzene	87.7			67.0-138		10/26/2020 02:03	WG1564979
(S) 1,2-Dichloroethane-d4	70.2			70.0-130		10/26/2020 02:03	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	18.9		1.64	4.07	1	10/25/2020 14:19	WG1563737
C28-C40 Oil Range	188		0.558	8.14	2	10/26/2020 08:19	WG1563737
(S) o-Terphenyl	59.5			18.0-148		10/25/2020 14:19	WG1563737
(S) o-Terphenyl	83.7			18.0-148		10/26/2020 08:19	WG1563737

Collected date/time: 10/14/20 10:10

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	10/23/2020 00:02	WG1563474

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	16.5	J	9.49	20.6	1	10/25/2020 00:44	WG1564050

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	0.0320	B J	0.0224	0.103	1	10/24/2020 03:40	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	92.5			77.0-120		10/24/2020 03:40	WG1564405

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	10/26/2020 02:22	WG1564979
Toluene	U		0.00138	0.00532	1	10/26/2020 02:22	WG1564979
Ethylbenzene	U		0.000784	0.00266	1	10/26/2020 02:22	WG1564979
Total Xylenes	U		0.000936	0.00691	1	10/26/2020 02:22	WG1564979
(S) Toluene-d8	114			75.0-131		10/26/2020 02:22	WG1564979
(S) 4-Bromofluorobenzene	93.9			67.0-138		10/26/2020 02:22	WG1564979
(S) 1,2-Dichloroethane-d4	81.7			70.0-130		10/26/2020 02:22	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.01	J	1.66	4.13	1	10/25/2020 12:50	WG1563737
C28-C40 Oil Range	28.4		0.283	4.13	1	10/25/2020 12:50	WG1563737
(S) o-Terphenyl	56.1			18.0-148		10/25/2020 12:50	WG1563737

Collected date/time: 10/14/20 10:20

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.6		1	10/23/2020 00:02	WG1563474

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	96.9		9.52	20.7	1	10/25/2020 00:54	WG1564050

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	0.0298	B J	0.0225	0.104	1	10/24/2020 04:00	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120		10/24/2020 04:00	WG1564405

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		0.000500	0.00107	1	10/26/2020 02:41	WG1564979
Toluene	U		0.00139	0.00535	1	10/26/2020 02:41	WG1564979
Ethylbenzene	U		0.000789	0.00268	1	10/26/2020 02:41	WG1564979
Total Xylenes	U		0.000942	0.00696	1	10/26/2020 02:41	WG1564979
(S) Toluene-d8	113			75.0-131		10/26/2020 02:41	WG1564979
(S) 4-Bromofluorobenzene	91.1			67.0-138		10/26/2020 02:41	WG1564979
(S) 1,2-Dichloroethane-d4	81.4			70.0-130		10/26/2020 02:41	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.67	4.14	1	10/25/2020 10:30	WG1563737
C28-C40 Oil Range	2.68	B J	0.284	4.14	1	10/25/2020 10:30	WG1563737
(S) o-Terphenyl	72.6			18.0-148		10/25/2020 10:30	WG1563737

Collected date/time: 10/14/20 10:30

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.7		1	10/23/2020 00:02	WG1563474

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	320		9.82	21.3	1	10/25/2020 01:03	WG1564050

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		0.0232	0.107	1	10/24/2020 04:21	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		10/24/2020 04:21	WG1564405

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000530	0.00114	1	10/26/2020 02:59	WG1564979
Toluene	U		0.00148	0.00568	1	10/26/2020 02:59	WG1564979
Ethylbenzene	U		0.000837	0.00284	1	10/26/2020 02:59	WG1564979
Total Xylenes	U		0.000999	0.00738	1	10/26/2020 02:59	WG1564979
(S) Toluene-d8	116			75.0-131		10/26/2020 02:59	WG1564979
(S) 4-Bromofluorobenzene	93.9			67.0-138		10/26/2020 02:59	WG1564979
(S) 1,2-Dichloroethane-d4	80.7			70.0-130		10/26/2020 02:59	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.72	4.27	1	10/25/2020 10:42	WG1563737
C28-C40 Oil Range	0.364	B J	0.292	4.27	1	10/25/2020 10:42	WG1563737
(S) o-Terphenyl	68.9			18.0-148		10/25/2020 10:42	WG1563737

Collected date/time: 10/14/20 10:40

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.5		1	10/23/2020 00:02	WG1563474

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	341		9.74	21.2	1	10/25/2020 01:13	WG1564050

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	0.0553	B J	0.0230	0.106	1	10/24/2020 04:42	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		10/24/2020 04:42	WG1564405

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000522	0.00112	1	10/26/2020 03:18	WG1564979
Toluene	U		0.00145	0.00559	1	10/26/2020 03:18	WG1564979
Ethylbenzene	U		0.000824	0.00279	1	10/26/2020 03:18	WG1564979
Total Xylenes	U		0.000984	0.00727	1	10/26/2020 03:18	WG1564979
(S) Toluene-d8	113			75.0-131		10/26/2020 03:18	WG1564979
(S) 4-Bromofluorobenzene	92.1			67.0-138		10/26/2020 03:18	WG1564979
(S) 1,2-Dichloroethane-d4	91.2			70.0-130		10/26/2020 03:18	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.23	1	10/25/2020 10:55	WG1563737
C28-C40 Oil Range	U		0.290	4.23	1	10/25/2020 10:55	WG1563737
(S) o-Terphenyl	57.7			18.0-148		10/25/2020 10:55	WG1563737

Collected date/time: 10/14/20 11:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.3		1	10/23/2020 00:02	WG1563474

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	36.3		9.46	20.6	1	10/25/2020 01:22	WG1564050

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	0.0264	B J	0.0223	0.103	1	10/24/2020 05:02	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	91.8			77.0-120		10/24/2020 05:02	WG1564405

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	10/26/2020 03:37	WG1564979
Toluene	U		0.00137	0.00528	1	10/26/2020 03:37	WG1564979
Ethylbenzene	U		0.000778	0.00264	1	10/26/2020 03:37	WG1564979
Total Xylenes	U		0.000929	0.00686	1	10/26/2020 03:37	WG1564979
(S) Toluene-d8	114			75.0-131		10/26/2020 03:37	WG1564979
(S) 4-Bromofluorobenzene	91.4			67.0-138		10/26/2020 03:37	WG1564979
(S) 1,2-Dichloroethane-d4	82.0			70.0-130		10/26/2020 03:37	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.65	4.11	1	10/25/2020 11:08	WG1563737
C28-C40 Oil Range	1.36	B J	0.282	4.11	1	10/25/2020 11:08	WG1563737
(S) o-Terphenyl	80.5			18.0-148		10/25/2020 11:08	WG1563737

Collected date/time: 10/14/20 11:10

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.3		1	10/23/2020 00:02	WG1563474

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	30.9		9.65	21.0	1	10/25/2020 01:32	WG1564050

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	0.0250	B J	0.0228	0.105	1	10/24/2020 05:23	WG1564405
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.5			77.0-120		10/24/2020 05:23	WG1564405

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		0.000513	0.00110	1	10/26/2020 03:56	WG1564979
Toluene	U		0.00143	0.00549	1	10/26/2020 03:56	WG1564979
Ethylbenzene	U		0.000809	0.00274	1	10/26/2020 03:56	WG1564979
Total Xylenes	U		0.000966	0.00714	1	10/26/2020 03:56	WG1564979
(S) Toluene-d8	113			75.0-131		10/26/2020 03:56	WG1564979
(S) 4-Bromofluorobenzene	91.6			67.0-138		10/26/2020 03:56	WG1564979
(S) 1,2-Dichloroethane-d4	83.3			70.0-130		10/26/2020 03:56	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.20	1	10/25/2020 13:15	WG1563737
C28-C40 Oil Range	3.87	B J	0.287	4.20	1	10/25/2020 13:15	WG1563737
(S) o-Terphenyl	67.9			18.0-148		10/25/2020 13:15	WG1563737

Collected date/time: 10/14/20 11:20

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.1		1	10/22/2020 23:34	WG1563475

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	31.7		9.68	21.0	1	10/25/2020 01:41	WG1564050

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	0.0284	B J	0.0228	0.105	1	10/24/2020 05:44	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	93.7			77.0-120		10/24/2020 05:44	WG1564405

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		0.000516	0.00110	1	10/26/2020 04:15	WG1564979
Toluene	U		0.00144	0.00552	1	10/26/2020 04:15	WG1564979
Ethylbenzene	U		0.000814	0.00276	1	10/26/2020 04:15	WG1564979
Total Xylenes	U		0.000972	0.00718	1	10/26/2020 04:15	WG1564979
(S) Toluene-d8	115			75.0-131		10/26/2020 04:15	WG1564979
(S) 4-Bromofluorobenzene	94.4			67.0-138		10/26/2020 04:15	WG1564979
(S) 1,2-Dichloroethane-d4	84.0			70.0-130		10/26/2020 04:15	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.21	1	10/25/2020 11:21	WG1563737
C28-C40 Oil Range	1.53	B J	0.288	4.21	1	10/25/2020 11:21	WG1563737
(S) o-Terphenyl	56.6			18.0-148		10/25/2020 11:21	WG1563737

Collected date/time: 10/14/20 12:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.1		1	10/22/2020 23:34	WG1563475

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	47.4		9.38	20.4	1	10/25/2020 09:55	WG1564050

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	0.0316	B J	0.0221	0.102	1	10/24/2020 06:04	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	93.6			77.0-120		10/24/2020 06:04	WG1564405

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000485	0.00104	1	10/26/2020 04:33	WG1564979
Toluene	U		0.00135	0.00520	1	10/26/2020 04:33	WG1564979
Ethylbenzene	U		0.000766	0.00260	1	10/26/2020 04:33	WG1564979
Total Xylenes	U		0.000915	0.00675	1	10/26/2020 04:33	WG1564979
(S) Toluene-d8	115			75.0-131		10/26/2020 04:33	WG1564979
(S) 4-Bromofluorobenzene	91.9			67.0-138		10/26/2020 04:33	WG1564979
(S) 1,2-Dichloroethane-d4	84.6			70.0-130		10/26/2020 04:33	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.34	J	1.64	4.08	1	10/25/2020 14:07	WG1563737
C28-C40 Oil Range	8.13		0.279	4.08	1	10/25/2020 14:07	WG1563737
(S) o-Terphenyl	63.5			18.0-148		10/25/2020 14:07	WG1563737

Collected date/time: 10/14/20 12:10

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.7		1	10/22/2020 23:34	WG1563475

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	37.5		9.42	20.5	1	10/25/2020 10:04	WG1564050

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

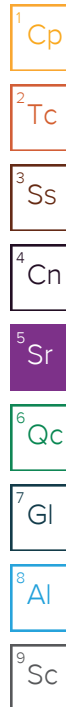
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0264	B J	0.0222	0.102	1	10/24/2020 06:25	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120		10/24/2020 06:25	WG1564405

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000490	0.00105	1	10/26/2020 04:52	WG1564979
Toluene	U		0.00136	0.00524	1	10/26/2020 04:52	WG1564979
Ethylbenzene	U		0.000773	0.00262	1	10/26/2020 04:52	WG1564979
Total Xylenes	U		0.000923	0.00681	1	10/26/2020 04:52	WG1564979
(S) Toluene-d8	113			75.0-131		10/26/2020 04:52	WG1564979
(S) 4-Bromofluorobenzene	91.0			67.0-138		10/26/2020 04:52	WG1564979
(S) 1,2-Dichloroethane-d4	83.3			70.0-130		10/26/2020 04:52	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.65	4.10	1	10/25/2020 12:24	WG1563737
C28-C40 Oil Range	1.34	B J	0.281	4.10	1	10/25/2020 12:24	WG1563737
(S) o-Terphenyl	69.3			18.0-148		10/25/2020 12:24	WG1563737



Collected date/time: 10/14/20 12:20

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.9		1	10/22/2020 23:34	WG1563475

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	113		9.69	21.1	1	10/25/2020 10:33	WG1564050

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		0.0229	0.105	1	10/24/2020 06:45	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	92.5			77.0-120		10/24/2020 06:45	WG1564405

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		0.000517	0.00111	1	10/26/2020 05:11	WG1564979
Toluene	U		0.00144	0.00553	1	10/26/2020 05:11	WG1564979
Ethylbenzene	U		0.000816	0.00277	1	10/26/2020 05:11	WG1564979
Total Xylenes	U		0.000974	0.00719	1	10/26/2020 05:11	WG1564979
(S) Toluene-d8	115			75.0-131		10/26/2020 05:11	WG1564979
(S) 4-Bromofluorobenzene	90.3			67.0-138		10/26/2020 05:11	WG1564979
(S) 1,2-Dichloroethane-d4	78.3			70.0-130		10/26/2020 05:11	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.21	1	10/25/2020 12:12	WG1563737
C28-C40 Oil Range	0.598	B J	0.289	4.21	1	10/25/2020 12:12	WG1563737
(S) o-Terphenyl	70.3			18.0-148		10/25/2020 12:12	WG1563737

Collected date/time: 10/14/20 12:40

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.4		1	10/22/2020 23:34	WG1563475

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	80.6		9.96	21.6	1	10/25/2020 10:42	WG1564050

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	0.0271	B J	0.0235	0.108	1	10/24/2020 07:06	WG1564405
(S) a,a,a-Trifluorotoluene(FID)	93.6			77.0-120		10/24/2020 07:06	WG1564405

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	0.00117	1	10/26/2020 05:30	WG1564979
Toluene	U		0.00151	0.00583	1	10/26/2020 05:30	WG1564979
Ethylbenzene	U		0.000859	0.00291	1	10/26/2020 05:30	WG1564979
Total Xylenes	U		0.00103	0.00757	1	10/26/2020 05:30	WG1564979
(S) Toluene-d8	114			75.0-131		10/26/2020 05:30	WG1564979
(S) 4-Bromofluorobenzene	91.2			67.0-138		10/26/2020 05:30	WG1564979
(S) 1,2-Dichloroethane-d4	82.3			70.0-130		10/26/2020 05:30	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

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	10/25/2020 11:34	WG1563737
C28-C40 Oil Range	0.425	B J	0.297	4.33	1	10/25/2020 11:34	WG1563737
(S) o-Terphenyl	69.3			18.0-148		10/25/2020 11:34	WG1563737

Collected date/time: 10/14/20 13:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.9		1	10/22/2020 23:34	WG1563475

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	34.8		9.69	21.1	1	10/25/2020 10:52	WG1564050

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	0.0522	B J	0.0229	0.105	1	10/24/2020 09:16	WG1564689
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120		10/24/2020 09:16	WG1564689

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000517	0.00111	1	10/26/2020 05:49	WG1564979
Toluene	U		0.00144	0.00554	1	10/26/2020 05:49	WG1564979
Ethylbenzene	U		0.000816	0.00277	1	10/26/2020 05:49	WG1564979
Total Xylenes	U		0.000974	0.00720	1	10/26/2020 05:49	WG1564979
(S) Toluene-d8	115			75.0-131		10/26/2020 05:49	WG1564979
(S) 4-Bromofluorobenzene	91.5			67.0-138		10/26/2020 05:49	WG1564979
(S) 1,2-Dichloroethane-d4	83.0			70.0-130		10/26/2020 05:49	WG1564979

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.21	1	10/25/2020 11:46	WG1563737
C28-C40 Oil Range	0.455	B J	0.289	4.21	1	10/25/2020 11:46	WG1563737
(S) o-Terphenyl	67.6			18.0-148		10/25/2020 11:46	WG1563737

Collected date/time: 10/13/20 00:00

L1274845

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.0		1	10/22/2020 23:34	WG1563475

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	252		9.58	20.8	1	10/25/2020 11:01	WG1564050

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	0.0303	B J	0.0226	0.104	1	10/24/2020 09:39	WG1564689
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120		10/24/2020 09:39	WG1564689

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		0.000506	0.00108	1	10/25/2020 04:12	WG1564981
Toluene	U		0.00141	0.00542	1	10/25/2020 04:12	WG1564981
Ethylbenzene	U		0.000798	0.00271	1	10/25/2020 04:12	WG1564981
Total Xylenes	0.00352	J	0.000953	0.00704	1	10/25/2020 04:12	WG1564981
(S) Toluene-d8	94.1			75.0-131		10/25/2020 04:12	WG1564981
(S) 4-Bromofluorobenzene	105			67.0-138		10/25/2020 04:12	WG1564981
(S) 1,2-Dichloroethane-d4	114			70.0-130		10/25/2020 04:12	WG1564981

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.53	J	1.68	4.17	1	10/25/2020 11:59	WG1563737
C28-C40 Oil Range	1.12	B J	0.285	4.17	1	10/25/2020 11:59	WG1563737
(S) o-Terphenyl	71.4			18.0-148		10/25/2020 11:59	WG1563737

Method Blank (MB)

(MB) R3584901-1 10/23/20 01:13

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1274821-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1274821-02 10/23/20 01:13 • (DUP) R3584901-3 10/23/20 01:13

Analyte	Original Result		DUP Result		DUP RPD		DUP Qualifier		DUP RPD Limits	
	%		%		%				%	
Total Solids	89.9		89.6		1	0.338			10	

Laboratory Control Sample (LCS)

(LCS) R3584901-2 10/23/20 01:13

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

Method Blank (MB)

(MB) R3584816-1 10/22/20 16:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Total Solids	%	%	%	%
	0.000			

L1274845-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1274845-02 10/22/20 16:16 • (DUP) R3584816-3 10/22/20 16:16

Analyte	Original Result		DUP Result		DUP RPD		DUP Qualifier		DUP RPD Limits	
	%	%	%	%	%	%			%	%
Total Solids	96.4	95.4	95.4	1	1.09				10	

Laboratory Control Sample (LCS)

(LCS) R3584816-2 10/22/20 16:16

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



Method Blank (MB)

(MB) R3584899-1 10/23/20 00:45

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1274845-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1274845-13 10/23/20 00:45 • (DUP) R3584899-3 10/23/20 00:45

Analyte	Original Result		DUP Result		Dilution		DUP RPD		DUP Qualifier		DUP RPD Limits	
	%		%		%		%		%		%	
Total Solids	79.9		77.5		1		3.11				10	

Laboratory Control Sample (LCS)

(LCS) R3584899-2 10/23/20 00:45

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

1 C

2 T

3 S

4 C

5 S

6 Qc

7 GI

8 AI

9 Sc

Method Blank (MB)

(MB) R3584898-1 10/23/20 00:02

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1274845-28 Original Sample (OS) • Duplicate (DUP)

(OS) L1274845-28 10/23/20 00:02 • (DUP) R3584898-3 10/23/20 00:02

Analyte	Original Result		DUP Result		DUP RPD		DUP Qualifier		DUP RPD Limits	
	%		%		%				%	
Total Solids	93.7		94.5		1	0.855			10	

Laboratory Control Sample (LCS)

(LCS) R3584898-2 10/23/20 00:02

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

QUALITY CONTROL SUMMARY

L1274845-32.33.34.35.36.37.38

WG1563475
Total Solids by Method 2540 G-2011

Method Blank (MB)

(MB) R3584890-1 10/22/20 23:34					
Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %	
Total Solids	0.000				

L1274845-33 Original Sample (OS) • Duplicate (DUP)

(OS) L1274845-33 10/22/20 23:34 • (DUP) R3584890-3 10/22/20 23:34					
	Original Result	DUP Result	Dilution	DUP RPD	DUP RPD Limits
Analyte	%	%		%	%
Total Solids	98.1	98.1	1	0.0221	10

Laboratory Control Sample (LCS)

(LCS) R3584890-2 10/22/20 23:34					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3584854-1 10/23/20 00:59

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

L1274845-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1274845-01 10/23/20 01:39 • (DUP) R3584854-3 10/23/20 01:48

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	642	656	1	2.26		20

L1274845-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1274845-19 10/23/20 05:41 • (DUP) R3584854-6 10/23/20 05:50

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1530	1610	5	4.80		20

Laboratory Control Sample (LCS)

(LCS) R3584854-2 10/23/20 01:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	207	103	90.0-110	

L1274845-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274845-10 10/23/20 03:33 • (MS) R3584854-4 10/23/20 03:43 • (MSD) R3584854-5 10/23/20 03:52

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MS Rec. %	MSD Result (dry) mg/kg	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	513	346	888	106	886	105	1	80.0-120		0.289		20

Method Blank (MB)

(MB) R3585380-1 10/24/20 22:41

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

L1274845-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1274845-20 10/24/20 23:00 • (DUP) R3585380-3 10/24/20 23:09

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	77.0	73.8	1	4.25		20

L1274845-38 Original Sample (OS) • Duplicate (DUP)

(OS) L1274845-38 10/25/20 11:01 • (DUP) R3585380-6 10/25/20 11:11

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	252	260	1	3.01		20

Laboratory Control Sample (LCS)

(LCS) R3585380-2 10/24/20 22:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	205	102	90.0-110	

L1274845-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274845-21 10/24/20 23:19 • (MS) R3585380-4 10/24/20 23:28 • (MSD) R3585380-5 10/24/20 23:38

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MS Rec. %	MSD Result (dry) mg/kg	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	536	15.8	554	100	556	101	1	80.0-120		0.419		20

Method Blank (MB)

(MB) R3585037-3 10/23/20 02:33					
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)	110			77.0-120	

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

(LCS) R3585037-1 10/23/20 01:16 • (LCSD) R3585037-2 10/23/20 01:37									
Spike Amount mg/kg		LCSD Result mg/kg	LCS Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCSD Qualifier	LCSD Qualifier %	RPD Limits %
TPH (GC/FID) Low Fraction		4.96	5.62	102	90.2	72.0-127		12.5	20
(S) a,a,a-Trifluorotoluene(FID)				96.3	94.3	77.0-120			

L1274682-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274682-01 10/23/20 03:36 • (MS) R3585037-4 10/23/20 11:03 • (MSD) R3585037-5 10/23/20 11:24									
Spike Amount (dry) mg/kg		MS Result (dry) mg/kg	Original Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD Limits %
TPH (GC/FID) Low Fraction		268	1.22	228	116	98.4	33.8	10.0-151	28
(S) a,a,a-Trifluorotoluene(FID)					107	104		77.0-120	

Method Blank (MB)

(MB) R3585312-2 10/23/20 10:08					
	MB Result	MB Qualifier	MB MDL	MB RDL	
	mg/kg		mg/kg	mg/kg	
Analyte					
TPH (GC/FID) Low Fraction	0.0342	J	0.0217	0.100	
(S)					
a,a,a-Trifluorotoluene(FID)	102			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3585312-1 10/23/20 09:27					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Analyte					
TPH (GC/FID) Low Fraction	5.50	5.46	99.3	72.0-127	
(S)					
a,a,a-Trifluorotoluene(FID)		103		77.0-120	

L1274550-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274550-06 10/23/20 14:31 • (MS) R3585312-3 10/23/20 18:18 • (MSD) R3585312-4 10/23/20 18:39													
Analyte	Spike Amount (dry) mg/kg	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 %
			MS Result (dry)	MSD Result (dry)									
TPH (GC/FID) Low Fraction	114	1.25	149	172	172	95.7	111	25	10.0-151			14.3	28
(S)						117	117		77.0-120				
a,a,a-Trifluorotoluene(FID)													

Method Blank (MB)

(MB) R3585327-2 10/23/20 22:52					
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	0.0368	J	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3585327-1 10/23/20 20:58					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.05	918	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)		115		77.0-120	

L1275000-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1275000-07 10/24/20 02:38 • (MS) R3585327-3 10/24/20 07:27 • (MSD) R3585327-4 10/24/20 07:47									
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MSD Qualifier
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%	mg/kg
TPH (GC/FID) Low Fraction	147	3.34	176	159	118	106	25	10.0-151	10.2
(S) a,a,a-Trifluorotoluene(FID)				108	113		77.0-120		28



Method Blank (MB)

MB) R3585963-2 10/24/20 03:07					
Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg	
TPH (GC/FID) Low Fraction	0.0677	J	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120	

Laboratory Control Sample (LCS)

LCS) R3585963-1 10/24/20 01:21					
Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.96	108	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			108	77.0-120	

1 C

2 T

3 S

4 C

5 S

6 Qc

7 GI

8 AI

9 Sc

Method Blank (MB)

(MB) R3586079-3 10/26/20 04:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	95.4			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	113			70.0-130

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

(LCS) R3586079-1 10/26/20 03:18 • (LCSD) R3586079-2 10/26/20 03:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.148	0.150	118	70.0-123			1.34	20
Ethylbenzene	0.125	0.123	0.122	98.4	74.0-126			0.816	20
Toluene	0.125	0.125	0.127	100	75.0-121			1.59	20
Xylenes, Total	0.375	0.366	0.378	97.6	72.0-127			3.23	20
(S) Toluene-d8				95.3	75.0-131				
(S) 4-Bromofluorobenzene				102	67.0-138				
(S) 1,2-Dichloroethane-d4				115	70.0-130				

L1274845-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274845-17 10/26/20 12:33 • (MS) R3586079-4 10/26/20 12:51 • (MSD) R3586079-5 10/26/20 13:10

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	0.134	U	0.151	0.142	113	106	1	10.0-149		6.64	37	
Ethylbenzene	0.134	U	0.133	0.122	99.2	91.1	1	10.0-160		8.47	38	
Toluene	0.134	U	0.135	0.124	101	92.7	1	10.0-156		8.33	38	
Xylenes, Total	0.402	U	0.413	0.390	103	97.0	1	10.0-160		5.65	38	
(S) Toluene-d8					97.5	96.1		75.0-131				
(S) 4-Bromofluorobenzene					101	104		67.0-138				
(S) 1,2-Dichloroethane-d4					115	118		70.0-130				

Method Blank (MB)

(MB) R3586005-3 10/25/20 22:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	114			75.0-131
(S) 4-Bromofluorobenzene	88.7			67.0-138
(S) 1,2-Dichloroethane-d4	81.5			70.0-130

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

(LCS) R3586005-1 10/25/20 21:16 • (LCSD) R3586005-2 10/25/20 21:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.110	0.108	86.4	70.0-123			1.83	20
Ethylbenzene	0.125	0.125	0.117	93.6	74.0-126			6.61	20
Toluene	0.125	0.138	0.134	107	75.0-121			2.94	20
Xylenes, Total	0.375	0.326	0.347	92.5	72.0-127			6.24	20
(S) Toluene-d8				119	75.0-131				
(S) 4-Bromofluorobenzene				88.3	67.0-138				
(S) 1,2-Dichloroethane-d4				85.5	70.0-130				

L1274845-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274845-18 10/25/20 23:50 • (MS) R3586005-4 10/26/20 06:08 • (MSD) R3586005-5 10/26/20 06:27

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	0.130	0.000547	0.104	0.118	79.7	89.9	1	10.0-149		12.0	37	
Ethylbenzene	0.130	0.000911	0.114	0.130	86.4	99.3	1	10.0-160		13.8	38	
Toluene	0.130	U	0.125	0.138	96.0	106	1	10.0-156		9.60	38	
Xylenes, Total	0.391	0.00341	0.336	0.393	84.9	99.7	1	10.0-160		15.9	38	
(S) Toluene-d8					114	110		75.0-131				
(S) 4-Bromofluorobenzene					90.2	90.3		67.0-138				
(S) 1,2-Dichloroethane-d4					84.1	84.2		70.0-130				

Method Blank (MB)

(MB) R3585468-2 10/25/20 03:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	94.9			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	114			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3585468-1 10/25/20 02:23

Analyte	Spike Amount		LCS Result		LCS Rec.		Rec. Limits		LCS Qualifier	
	mg/kg	%	mg/kg	%	mg/kg	%	mg/kg	%		
Benzene	0.125		0.144		115		70.0-123			
Ethylbenzene	0.125		0.123		98.4		74.0-126			
Toluene	0.125		0.123		98.4		75.0-121			
Xylenes, Total	0.375		0.369		98.4		72.0-127			
(S) Toluene-d8					95.0		75.0-131			
(S) 4-Bromofluorobenzene					101		67.0-138			
(S) 1,2-Dichloroethane-d4					117		70.0-130			

L1274866-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274866-19 10/25/20 10:50 • (MS) R3585468-3 10/25/20 11:09 • (MSD) R3585468-4 10/25/20 11:27

Analyte	Spike Amount		Original Result		MS Result		MSD Result		MS Rec.		MSD Rec.		Dilution		Rec. Limits		MS Qualifier		MSD Qualifier		RPD		RPD Limits	
	mg/kg	(dry)	mg/kg	(dry)	mg/kg	%	mg/kg	(dry)	mg/kg	%	mg/kg	%			%	%		%		%	%	%		%
Benzene	0.131		U		0.133		0.0699		101		53.2		1		10.0-149		J3		J3		61.8		37	
Ethylbenzene	0.131		U		0.111		0.0625		84.8		47.5		1		10.0-160		J3		J3		56.3		38	
Toluene	0.131		U		0.110		0.0604		84.0		45.9		1		10.0-156		J3		J3		58.6		38	
Xylenes, Total	0.394		U		0.342		0.195		86.7		49.3		1		10.0-160		J3		J3		54.9		38	
(S) Toluene-d8							93.1		104		93.5				75.0-131									
(S) 4-Bromofluorobenzene							104		106		106				67.0-138									
(S) 1,2-Dichloroethane-d4							118		114		114				70.0-130									

Method Blank (MB)

(MB) R3585921-2 10/26/20 15:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	0.000500	J	0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	97.8			75.0-131
(S) 4-Bromofluorobenzene	104			67.0-138
(S) 1,2-Dichloroethane-d4	112			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3585921-1 10/26/20 14:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.131	105	70.0-123	
Ethylbenzene	0.125	0.105	84.0	74.0-126	
Toluene	0.125	0.113	90.4	75.0-121	
Xylenes, Total	0.375	0.331	88.3	72.0-127	
(S) Toluene-d8			95.6	75.0-131	
(S) 4-Bromofluorobenzene			97.6	67.0-138	
(S) 1,2-Dichloroethane-d4			114	70.0-130	

Method Blank (MB)

(MB) R3585256-1 10/24/20 06:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U	1.61	4.00	4.00
C28-C40 Oil Range	U	0.274	4.00	4.00
(S) o-Terphenyl	80.0		18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3585256-2 10/24/20 06:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	44.9	89.8	50.0-150	
(S) o-Terphenyl		117		18.0-148	

L1274845-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274845-01 10/24/20 10:01 • (MS) R3585256-3 10/24/20 10:14 • (MSD) R3585256-4 10/24/20 10:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result mg/kg	MS Rec. %	MSD Result (dry) mg/kg	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
C10-C28 Diesel Range	49.1	1.89	42.0	81.7	42.9	83.4	1	50.0-150		2.19		20
(S) o-Terphenyl				101		104		18.0-148				

Method Blank (MB)

(MB) R3585391-1 10/25/20 09:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U	1.61	4.00	4.00
C28-C40 Oil Range	0.494	0.274	4.00	4.00
(S) o-Terphenyl	72.4		18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3585391-2 10/25/20 09:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	48.6	36.0	74.1	50.0-150	
(S) o-Terphenyl			82.9	18.0-148	

L1274845-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1274845-20 10/25/20 13:28 • (MS) R3585391-3 10/25/20 13:41 • (MSD) R3585391-4 10/25/20 13:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result mg/kg	MS Rec. %	MSD Result (dry) mg/kg	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD	RPD Limits %
C10-C28 Diesel Range	49.3	4.76	41.9	75.3	40.7	74.1	1	50.0-150		2.95		20
(S) o-Terphenyl				80.2		79.2		18.0-148				

Method Blank (MB)

(MB) R3585260-1 10/24/20 16:54					
Analyte	MB Result mg/kg	<u>MB Qualifier</u> mg/kg	MB MDL mg/kg	MB RDL mg/kg	
C10-C28 Diesel Range	U	1.61	4.00	4.00	
C28-C40 Oil Range	U	0.274	4.00	4.00	
(S) o-Terphenyl	94.7		18.0-148		

Laboratory Control Sample (LCS)

(LCS) R3585260-2 10/24/20 17:07					
Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
C10-C28 Diesel Range	50.0	45.1	90.2	50.0-150	
(S) o-Terphenyl		111		18.0-148	

L1275810-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1275810-03 10/24/20 17:33 • (MS) R3585260-3 10/24/20 17:47 • (MSD) R3585260-4 10/24/20 18:00									
Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result mg/kg	MS Rec. %	MSD Result (dry) mg/kg	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier <u>MSD Qualifier</u> RPD Limits
C10-C28 Diesel Range	59.4	U	31.3	52.7	40.7	68.9	1	50.0-150	<u>J3</u> 26.1 20
(S) o-Terphenyl				51.4		77.9		18.0-148	

Guide to Reading and Understanding Your Laboratory Report

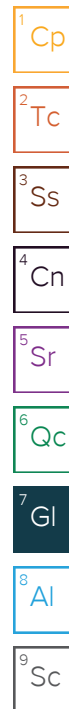
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
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}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

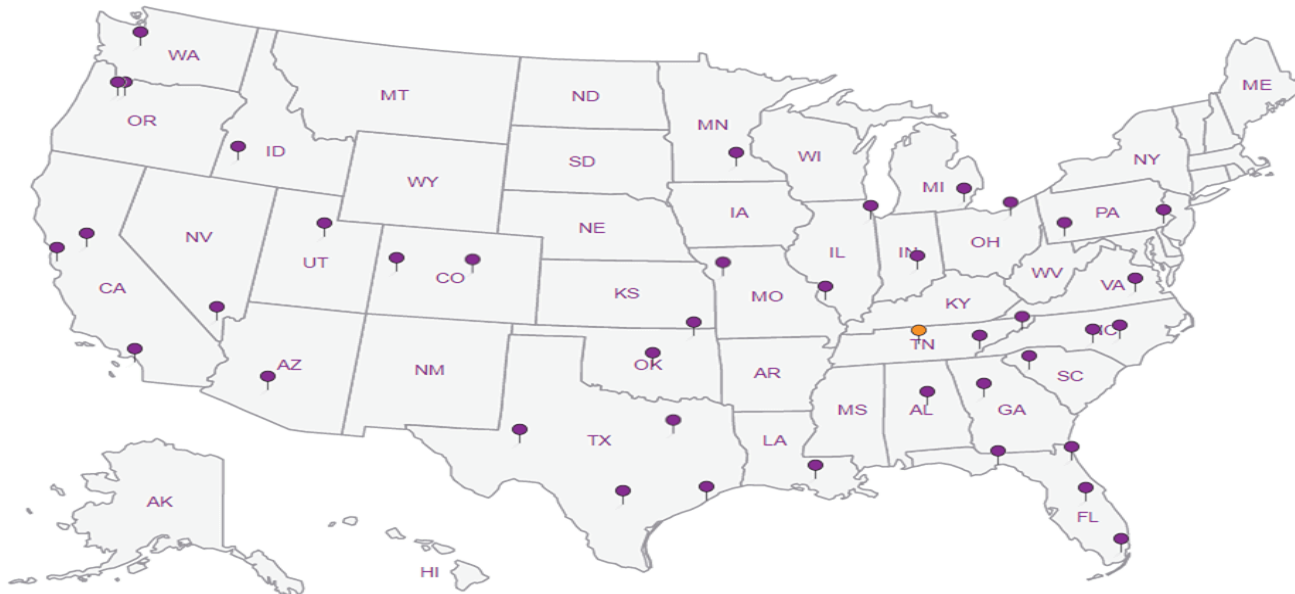
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Analysis Request of Chain of Custody Record

A048

Page : 1 of 4



Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	Vac Abo #4	Contact Info:	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02110
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST

(Circle or Specify Method No.)

2021 3:21:27 PM

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	YEAR: 2020	SAMPLING	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD	
	BTEX 8021R BTEX 8260R							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	TPH TX1005 (Exit to C35)							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	TPH 8015M (GRO - DRO - ORO - MRO)							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

REMARKS:

☒ Standard

☐ RUSH: Same Day 24 hr. 48 hr. 72 hr.

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

LAB USE ONLY

Sample Temperature

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Received by: *Joe Tyler* Date: 10-16-20 Time: 10:10 AMReceived by: *Joe Tyler* Date: 10-17-20 Time: 10:10 AMReceived by: *Joe Tyler* Date: 10-17-20 Time: 10:10 AM

ORIGINAL COPY

9050 08944001

1.4 + 0 = 1.4 mm



SAMPLE IDENTIFICATION

$$1.4 \pm 0.4 \text{ MW}$$



901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Conoco Phillips

Site Manager:

Christian Lluall

Vac Abo #4

Contact Info:

Email: christian.llull@tetrattech.com
Phone: (512) 338-1667

Lea County, New Mexico

212C-MD-02110

Accounts Payable

901 West Wall Street, Suite 100 Midland, Texas 79701

Sampler Signature:

Joe Tyler

Comments: COPTETRA Acctnum

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)		
		YEAR: 2020			WATER	SOIL	HCL	HNO ₃			ICE	NONE
		DATE	TIME									
	BH-3 (6'-7')	10/13/20	1600	X		X			1	N		
	BH-3 (9'-10')	10/13/20	1620	X		X			1	N		
	BH-3 (14'-15')	10/13/20	1640	X		X			1	N		
	BH-3 (19'-20')	10/13/20	1700	X		X			1	N		
	BH-7 (0'-1')	10/14/20	1000	X		X			1	N		
	BH-7 (2'-3')	10/14/20	1010	X		X			1	N		
	BH-7 (4'-5')	10/14/20	1020	X		X			1	N		
	BH-7 (6'-7')	10/14/20	1030	X		X			1	N		
	BH-7 (9'-10')	10/14/20	1040	X		X			1	N		
	BH-9 (0'-1')	10/14/20	1100	X		X			1	N		

Date: _____ Time: _____

Received by: *K. P. ...* Date: *...* Time: *...*

ne:

Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

re:

Date: _____ Time: _____

Received by _____ Date: _____ Time: _____

ne:

ORIGINAL COPY

(Circle)	HAND DELIVERED	FEDEX	UPS	Tracking #:

$$\lim_{h \rightarrow 0} h' = 0.7h'$$

I

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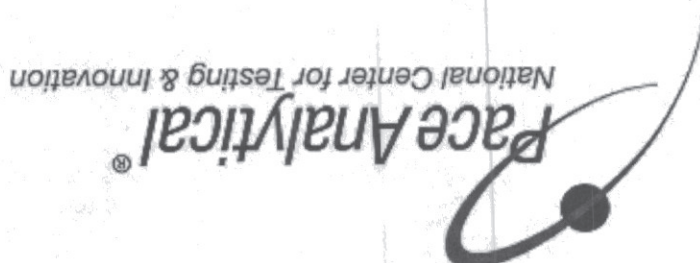
Client informed by:		Call	x	Email	Voice Mail	Date: 10/19/20	Time: 15:45
TSR Initials: CM		Client Contact: Christian Lull					

2.) Received BH-2 (39-40) not listed on the COC.

Sample Integrity	Parameter(s) past holding time	1	Login Clarification Needed	If Broken Container:	
	Temperature not in range		Chain of custody is incomplete	Insufficient packing material around container	
	Improper container type		Please specify Metals requested.	Insufficient packing material inside cooler	
	pH not in range.		Please specify TCLP requested.	Improper handling by carrier (FedEx / UPS / Courier)	
	Insufficient sample volume.	2	Received additional samples not listed on coc.	Sample was frozen	
	Sample is biphasic.		Sample ids on containers do not match ids on coc	Container lid not intact	
	Vials received with headspace.		Trip Blank not received.	If no Chain of Custody:	
	Broken container		Client did not "X" analysis.	Received by:	
	Broken container:		Chain of Custody is missing	Date/Time:	
	Sufficient sample remains			Temp./Cont. Rec./pH:	
				Carrier:	
				Tracking#	

Non-Conformance (check applicable items)

LogIn #: L1274845	Client: COPETRA	Date: 10/17/20	Evaluated by: Troy Dunlap
-------------------	-----------------	----------------	---------------------------



Troy Dunlap

APPENDIX F Boring Logs

212C-MD-02110		TETRA TECH		LOG OF BORING BH-1				Page 1 of 1	
Project Name: Vacuum Abo Battery #4 Trunkline Release									
Borehole Location: GPS Coordinates: 32.798154°, -103.434782°				Surface Elevation: 3920 ft					
Borehole Number: BH-1				Borehole Diameter (in.): 5		Date Started: 10/13/2020		Date Finished: 10/13/2020	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS	
												While Drilling	Upon Completion of Drilling			
												WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:				
			ExStik	PID				LL	PI				MATERIAL DESCRIPTION			
5			308								-- FILL MATERIAL; White, poorly cemented, with no odor, with no staining. -SM- SILTY SAND; White, heavily cemented, with heavy gravel, with no odor, with no staining. With interbedded caliche and calcrete.		1	BH-1 (0'-1')		
											-SM- SILTY SAND; White, heavily cemented, with moderate gravel, with no odor, with no staining. With interbedded caliche and calcrete.		5.5	BH-1 (2'-3')		
														BH-1 (4'-5')		
10			143											BH-1 (6'-7')		
15															BH-1 (9'-10')	
20			204												BH-1 (14'-15')	
																BH-1 (19'-20')
Bottom of borehole at 20.0 feet.																

Sampler Types: Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	Operation Types: Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.
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Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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212C-MD-02110		TETRA TECH										LOG OF BORING BH-2															Page 1 of 2	
Project Name: Vacuum Abo Battery #4 Trunkline Release																												
Borehole Location: GPS Coordinates: 32.798512°, -103.434283°										Surface Elevation: 3917 ft																		
Borehole Number: BH-2										Borehole Diameter (in.): 5					Date Started: 10/13/2020					Date Finished: 10/13/2020								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:																
												MATERIAL DESCRIPTION													DEPTH (ft)	REMARKS		
5	5	X	488								5	-- FILL MATERIAL; White, poorly cemented, with no odor, with no staining.	1	BH-2 (0'-1')														
												-SM- SILTY SAND; White, heavily cemented, with heavy gravel, with no odor, with no staining.		BH-2 (2'-3')														
												With interbedded caliche and calcrete.		BH-2 (4'-5')														
												-SM- SILTY SAND; White, heavily cemented, with moderate gravel, with no odor, with no staining.	5.5	BH-2 (6'-7')														
												With interbedded caliche and calcrete.		BH-2 (9'-10')														
10	10	X	360								10	-SM- SILTY SAND; White, heavily cemented, with moderate gravel, with no odor, with no staining.		BH-2 (14'-15')														
												With interbedded caliche and calcrete.		BH-2 (19'-20')														
												-SM- SILTY SAND; White, moderately cemented, with heavy gravel, with no odor, with no staining.	17	BH-2 (24'-25')														
15	15	X	604								15	With interbedded caliche and calcrete.		BH-2 (19'-20')														
												-SM- SILTY SAND; Tan, poorly cemented, with no gravel, with no odor, with no staining.	22	BH-2 (24'-25')														
20	20	X	843								20	With interbedded caliche and calcrete.		BH-2 (24'-25')														
												-SM- SILTY SAND; Tan, poorly cemented, with no gravel, with no odor, with no staining.		BH-2 (24'-25')														
25	25	X	541								25	With interbedded caliche and calcrete.		BH-2 (24'-25')														
												-SM- SILTY SAND; Tan, poorly cemented, with no gravel, with no odor, with no staining.		BH-2 (24'-25')														

Sampler Types: <input checked="" type="checkbox"/> Split Spoon <input type="checkbox"/> Shelby <input type="checkbox"/> Bulk Sample <input type="checkbox"/> Grab Sample	<input type="checkbox"/> Acetate Liner <input type="checkbox"/> Vane Shear <input checked="" type="checkbox"/> California <input type="checkbox"/> Test Pit	Operation Types: <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Continuous Flight Auger <input type="checkbox"/> Wash Rotary	<input type="checkbox"/> Hand Auger <input type="checkbox"/> Air Rotary <input type="checkbox"/> Direct Push <input type="checkbox"/> Core Barrel	Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.
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Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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212C-MD-02110		TETRA TECH		LOG OF BORING BH-2				Page 2 of 2											
Project Name: Vacuum Abo Battery #4 Trunkline Release																			
Borehole Location: GPS Coordinates: 32.798512°, -103.434283°				Surface Elevation: 3917 ft															
Borehole Number: BH-2				Borehole Diameter (in.): 5		Date Started: 10/13/2020		Date Finished: 10/13/2020											
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:							
												MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS					
30		X	490																
35		X	401																

Bottom of borehole at 35.0 feet.

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear California Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.
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Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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212C-MD-02110		TETRA TECH		LOG OF BORING BH-3				Page 1 of 1	
Project Name: Vacuum Abo Battery #4 Trunkline Release									
Borehole Location: GPS Coordinates: 32.798486°, -103.434748°				Surface Elevation: 3917 ft					
Borehole Number: BH-3				Borehole Diameter (in.): 5		Date Started: 10/13/2020		Date Finished: 10/13/2020	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS	
5	Wavy	X	1390										-- FILL MATERIAL; White, poorly cemented, with no odor, with no staining. -SM- SILTY SAND; White, heavily cemented, with heavy gravel, with no odor, with no staining. With interbedded caliche and calcrete.	1	BH-3 (0'-1')
														5.5	BH-3 (2'-3')
														5.5	BH-3 (4'-5')
														5.5	BH-3 (6'-7')
10	Wavy	X	161										-SM- SILTY SAND; White, heavily cemented, with moderate gravel, with no odor, with no staining. With interbedded caliche and calcrete.	17	BH-3 (9'-10')
														17	BH-3 (14'-15')
15	Wavy	X	204										-SM- SILTY SAND; White, moderately cemented, with heavy gravel, with no odor, with no staining. With interbedded caliche and calcrete.	17	BH-3 (19'-20')
														20	BH-3 (19'-20')
20	Wavy	X	101											20	

Bottom of borehole at 20.0 feet.

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear California Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.
Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling

212C-MD-02110		TETRA TECH		LOG OF BORING BH-5				Page 1 of 1							
Project Name: Vacuum Abo Battery #4 Trunkline Release															
Borehole Location: GPS Coordinates: 32.798454°, -103.434928°				Surface Elevation: 3918 ft											
Borehole Number: BH-5				Borehole Diameter (in.): 2		Date Started: 10/13/2020		Date Finished: 10/13/2020							
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION		DEPTH (ft)	REMARKS
			99									-SM- SILTY SAND; Brown, dry, with no odor, with no staining.		1	BH-5 (0'-1')
Bottom of borehole at 1.0 feet.															
Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear California Test Pit </div> </div>			Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>			Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.									
Logger: Adrian Garcia				Drilling Equipment: Hand Auger				Driller: Tetra Tech							

212C-MD-02110		TETRA TECH		LOG OF BORING BH-6				Page 1 of 1								
Project Name: Vacuum Abo Battery #4 Trunkline Release																
Borehole Location: GPS Coordinates: 32.798108°, -103.434929°				Surface Elevation: 3920 ft												
Borehole Number: BH-6				Borehole Diameter (in.): 2		Date Started: 10/13/2020		Date Finished: 10/13/2020								
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:				
												MATERIAL DESCRIPTION		DEPTH (ft)	REMARKS	
			ExStik	PID									-SM- SILTY SAND; Brown, dry, with no odor, with no staining.		1	BH-6 (0'-1')
Bottom of borehole at 1.0 feet.																
Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear California Test Pit </div> </div>			Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>			Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.										
Logger: Adrian Garcia			Drilling Equipment: Hand Auger				Driller: Tetra Tech									

212C-MD-02110		TETRA TECH		LOG OF BORING BH-7				Page 1 of 1	
Project Name: Vacuum Abo Battery #4 Trunkline Release									
Borehole Location: GPS Coordinates: 32.797971°, -103.434718°				Surface Elevation: 3919 ft					
Borehole Number: BH-7				Borehole Diameter (in.): 5		Date Started: 10/13/2020		Date Finished: 10/13/2020	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS	
												While Drilling	Upon Completion of Drilling			
												While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:				
			ExStik	PID				LL	PI				MATERIAL DESCRIPTION			
5											-- FILL MATERIAL; White, poorly cemented, with no odor, with no staining. -SM- SILTY SAND; White, heavily cemented, with heavy gravel, with no odor, with no staining. With interbedded caliche and calcrete.		1	BH-7 (0'-1')		
														BH-7 (2'-3')		
														BH-7 (4'-5')		
10													5.5	BH-7 (6'-7')		
															BH-7 (9'-10')	
15															BH-7 (14'-15')	
20																BH-7 (19'-20')
Bottom of borehole at 20.0 feet.																

Sampler Types: Split Spoon Shelby Bulk Sample Grab Sample	Acetate Liner Vane Shear California Test Pit	Operation Types: Mud Rotary Continuous Flight Auger Wash Rotary	Hand Auger Air Rotary Direct Push Core Barrel	Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.
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Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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212C-MD-02110		TETRA TECH		LOG OF BORING BH-9				Page 1 of 1	
Project Name: Vacuum Abo Battery #4 Trunkline Release									
Borehole Location: GPS Coordinates: 32.798285°, -103.433895°				Surface Elevation: 3917 ft					
Borehole Number: BH-9				Borehole Diameter (in.): 5		Date Started: 10/13/2020		Date Finished: 10/13/2020	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
			ExStik	PID								-- FILL MATERIAL; White, poorly cemented, with no odor, with no staining. -SM- SILTY SAND; White, heavily cemented, with heavy gravel, with no odor, with no staining. With interbedded caliche and calcrete.		1	BH-9 (0'-1')
															BH-9 (2'-3')
5															BH-9 (4'-5')
														5.5	BH-9 (6'-7')
10															BH-9 (9'-10')
															BH-9 (14'-15')
15														17	
															BH-9 (19'-20')
20														20	

Bottom of borehole at 20.0 feet.

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear California Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.
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Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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
212C-MD-02110		TETRA TECH		LOG OF BORING BH-10				Page 1 of 1	
Project Name: Vacuum Abo Battery #4 Trunkline Release									
Borehole Location: GPS Coordinates: 32.798495°, -103.433834°				Surface Elevation: 3915 ft					
Borehole Number: BH-10				Borehole Diameter (in.): 5		Date Started: 10/13/2020		Date Finished: 10/13/2020	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
												While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION			
5											-- FILL MATERIAL; White, poorly cemented, with no odor, with no staining.	1	BH-10 (0'-1')		
											-SM- SILTY SAND; White, heavily cemented, with heavy gravel, with no odor, with no staining.		BH-10 (2'-3')		
											With interbedded caliche and calcrete.		BH-10 (4'-5')		
											-SM- SILTY SAND; White, heavily cemented, with moderate gravel, with no odor, with no staining.	5.5	BH-10 (6'-7')		
10											With interbedded caliche and calcrete.		BH-10 (9'-10')		
													BH-10 (14'-15')		
15											-SM- SILTY SAND; White, moderately cemented, with heavy gravel, with no odor, with no staining.	17			
											With interbedded caliche and calcrete.		BH-10 (19'-20')		
20												20			
















Bottom of borehole at 20.0 feet.




Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear California Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.
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Logger: Joe Tyler	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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212C-MD-02110		 TETRA TECH		LOG OF BORING BH-11				Page 1 of 1							
Project Name: Vacuum Abo Battery #4 Trunkline Release															
Borehole Location: GPS Coordinates: 32.798498°, -103.433410°				Surface Elevation: 3913 ft											
Borehole Number: BH-11				Borehole Diameter (in.): 2		Date Started: 10/13/2020		Date Finished: 10/13/2020							
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft			
Remarks:															
MATERIAL DESCRIPTION												DEPTH (ft)	REMARKS		
1			125										-SM- SILTY SAND; Brown, dry, with no odor, with no staining.	1	BH-11 (0'-1')
225														2	BH-11 (0'-1')

Bottom of borehole at 2.0 feet.

Sampler Types:  Split Spoon  Shelby  Bulk Sample  Grab Sample		Acetate Liner   Vane Shear  California  Test Pit		Operation Types:  Mud Rotary  Continuous Flight Auger  Wash Rotary		 Hand Auger  Air Rotary  Direct Push  Core Barrel		Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.
Logger: Adrian Garcia				Drilling Equipment: Hand Auger		Driller: Tetra Tech		

212C-MD-02110		 TETRA TECH		LOG OF BORING BH-12				Page 1 of 1						
Project Name: Vacuum Abo Battery #4 Trunkline Release														
Borehole Location: GPS Coordinates: 32.798667°, -103.432599°				Surface Elevation: 3910 ft										
Borehole Number: BH-12				Borehole Diameter (in.): 2		Date Started: 10/13/2020		Date Finished: 10/13/2020						
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
			ExStik	PID										
												MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
1			250									-SM- SILTY SAND; Brown, dry, with no odor, with no staining.	1	BH-12 (0'-1')
190													2	BH-12 (0'-1')




Bottom of borehole at 2.0 feet.

Sampler Types:  Split Spoon  Shelby  Bulk Sample  Grab Sample		Acetate Liner   Vane Shear  California  Test Pit		Operation Types:  Mud Rotary  Continuous Flight Auger  Wash Rotary		 Hand Auger  Air Rotary  Direct Push  Core Barrel		Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.
Logger: Adrian Garcia				Drilling Equipment: Hand Auger		Driller: Tetra Tech		
















212C-MD-02110		TETRA TECH		LOG OF BORING BH-13				Page 1 of 1						
Project Name: Vacuum Abo Battery #4 Trunkline Release														
Borehole Location: GPS Coordinates: 32.798504°, -103.432030°				Surface Elevation: 3910 ft										
Borehole Number: BH-13				Borehole Diameter (in.): 2		Date Started: 10/13/2020		Date Finished: 10/13/2020						
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:		
			ExStik	PID								DEPTH (ft)	REMARKS	
1	[Hand Auger]	[Hand Auger]	260								[Hand Auger]	-SM- SILTY SAND; Brown, dry, with no odor, with no staining.		
305											2			

Bottom of borehole at 2.0 feet.

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input checked="" type="checkbox"/> Split Spoon <input type="checkbox"/> Shelby <input type="checkbox"/> Bulk Sample <input type="checkbox"/> Grab Sample </div> <div style="width: 50%;"> <input type="checkbox"/> Acetate Liner <input type="checkbox"/> Vane Shear <input type="checkbox"/> California <input type="checkbox"/> Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Mud Rotary <input type="checkbox"/> Continuous Flight Auger <input type="checkbox"/> Wash Rotary </div> <div style="width: 50%;"> <input type="checkbox"/> Hand Auger <input type="checkbox"/> Air Rotary <input type="checkbox"/> Direct Push <input type="checkbox"/> Core Barrel </div> </div>	Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.
Logger: Adrian Garcia		Drilling Equipment: Hand Auger
Driller: Tetra Tech		

212C-MD-02110		 TETRA TECH		LOG OF BORING BH-14				Page 1 of 1						
Project Name: Vacuum Abo Battery #4 Trunkline Release														
Borehole Location: GPS Coordinates: 32.798707°, -103.431531°				Surface Elevation: 3910 ft										
Borehole Number: BH-14				Borehole Diameter (in.): 2		Date Started: 10/13/2020		Date Finished: 10/13/2020						
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft		
Remarks:														
MATERIAL DESCRIPTION												DEPTH (ft)	REMARKS	
 												1	BH-14 (0'-1')	
												2	BH-14 (0'-1')	

Bottom of borehole at 2.0 feet.

Sampler Types:  Split Spoon  Shelby  Bulk Sample  Grab Sample		 Acetate Liner  Vane Shear  California  Test Pit		Operation Types:  Mud Rotary  Continuous Flight Auger  Wash Rotary		 Hand Auger  Air Rotary  Direct Push  Core Barrel		Notes: Surface elevation is an estimated value based on Google Earth. Laboratory analytical sample IDs and intervals are shown in the "Remarks" column.
Logger: Adrian Garcia		Drilling Equipment: Hand Auger		Driller: Tetra Tech				

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District III

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

CONDITIONS

Action 17984

CONDITIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 17984
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Deferral approved. Site will remain in "Closure not approved" status until closure report received after remediation is completed during equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	1/4/2023
bhall	1RP-3714 closed. Refer to incident #nTO1518757703 in all future communication.	1/4/2023