SITE INFORMATION

Report Type: Work Plan NRM2008348428

General Site Information:						
Site:	**EVGSAU 3308-007 Flowline Release**					
Company:	**ConocoPhillips**					
Section, Township and Range	**Unit D**	**Sec. 33**	**T 17S**	**R 35E**		
Lease Number:	**Associated API No. 30-025-32219**					
County:	**Lea**					
GPS:	**32.793744**			**-103.470587**		
Surface Owner:	**State**					
Mineral Owner:	**State**					
Directions:	Depart from Buckeye (NM238/Buckeye Rd.). Head east on Buckeye Rd. for 1.72 miles. Turn right onto dirt road. Head south for 0.44 miles. Turn left onto dirt road. Head northeast for 0.16 miles. Turn right onto dirt road. Head east for 0.14miles. Arrive at location.					

Release Data:		
Date Released:	5/30/2018	
Type Release:	Produced Water/Oil	
Source of Contamination:	Flowline Leak	
Fluid Released:	135.2 bbls	
Fluids Recovered:	130 bbls	

Official Communication:			
Name:	Marvin Soriwei		Greg W. Pope
Company:	Conoco Phillips - RMR		Tetra Tech
Address:	935 N. Eldridge Pkwy.		901 West Wall Street
			Suite 100
City:	Houston, Texas 77079		Midland, Texas
Phone number:	(832) 486-2730		(432) 687-8134
Fax:			
Email:	marvin.soriwei@conocophillips.com		Greg.Pope@tetratech.com

Site Characterization	
Shallowest Depth to Groundwater:	*80' below surface*
Impact to groundwater or surface water:	*No*
Extents within 300 feet of a watercourse:	*No*
Extents within 200 feet of lakebed, sinkhole, or playa la	*No*
Extents within 300 feet of an occupied structure:	*No*
Extents within 500 horizontal feet of a private water wel	*No*
Extents within 1000 feet of any water well or spring:	*No*
Extents within incorporated municipal well field:	*No*
Extents within 300 feet of a wetland:	*No*
Extents overlying a subsurface mine:	*No*
Karst Potential:	*Low*
Extents within a 100-year floodplain:	*No*
Impact to areas not on a production site:	*No*

Recommended Remedial Action Levels (RRALs)				
Benzene	***Total BTEX***	***TPH (GRO+DRO)***	***TPH (GRO+DRO+MRO)***	***Chlorides***
10 mg/kg	*50 mg/kg*	*1,000 mg/kg*	*2,500 mg/kg*	*10,000 mg/kg*

TETRA TECH

March 17, 2021

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

Re: Release Characterization and Remediation Work Plan
ConocoPhillips
EVGSAU 3308-007 Flowline Release
Unit Letter E, Section 33, Township 17 South, Range 35 East
Lea County, New Mexico
Incident ID NRM2008348428

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (COP) to assess a release that occurred from the flowline associated with the East Vacuum Grayburg San Andres Unit (EVGSAU) 3308-007 well (Associated API No. 30-025-32219). The release footprint is located in Public Land Survey System (PLSS) Unit Letter E, Section 33, Township 17 South, Range 35 East, Lea County, New Mexico (Site). The release site coordinates are 32.793744°, -103.470587°. 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 March 16, 2020. The release occurred as the result of a flowline leak. The released fluids were contained within an in-progress remediation excavation for a release that occurred in 2018. Approximately 0.6 barrels (bbls) of crude oil and 134.6 bbls of produced water were released, of which approximately 0.6 bbls of crude oil and 129.4 bbls of produced water were recovered. The New Mexico Oil Conservation District (NMOCD) received and approved the C-141 report form for the release on June 24, 2020. The NMOCD Incident ID for the release is NRM2008348428.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is within a New Mexico oil and gas production area and is in an area of low karst potential.

According to the New Mexico Office of the State Engineer (NMOSE) reporting system, there is one water well within ½ mile (800 meters) of the Site. The well has a depth to groundwater of 90 feet below ground surface (bgs). The site characterization data is included 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

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levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chloride 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	Remediation RRAL
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation RRALs for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg

1RP-5079 INITIAL RESPONSE EXCAVATION

In accordance with 19.15.29.8.B.(4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release”, COP elected to begin remediation of the impacted area associated with the 1RP-5079 release in 2018. The footprint of the release was excavated by COP personnel with heavy equipment to approximately 1-foot bgs to remove the visually impacted soils. The subsequent release associated with incident ID NRM2008348428 that occurred in March 2020 was encompassed by and contained within the lateral bounds of the previously mentioned initial response excavation. Figure 3 depicts this previously excavated area and the release footprint of the release that occurred on March 20, 2020. During the delineation and assessment activities for 1RP-5079, undocumented historical impact was discovered outside of the of the 1RP-5079 initial response excavation and reported release footprint.

SITE ASSESSMENT AND SAMPLING RESULTS

Given that both the 1RP-5079 release and the coincident NRM2008348428 incident represented roughly the same footprints, the assessment activities were largely grouped together. In October 2019, boring location BH-8 was installed as part of the 1RP-5079 site assessment activities. BH-8, located approximately 75 feet south of the NRM2008348428 release extent, was drilled to a depth of 15 feet bgs. A total of six (6) samples were collected from boring location BH-8. Additionally, in May 2020, two borings were drilled as a portion of another release delineation. Tetra Tech personnel were onsite in the release vicinity to drill and sample two (2) borings (BH-20-1W and BH-20-2W) east of the NRM2008348428 release perimeter to depths of 10 feet bgs and 5 feet bgs, respectively. A total of eight (8) samples were collected from boring locations BH-20-1W and BH-20-2W. The above-mentioned samples were submitted to Pace Laboratories and analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Boring locations are shown on Figure 4.

On September 2, 2020, Tetra Tech personnel returned to the Site to horizontally and vertically delineate the NRM2008348428 release area. Three (3) borings (BH-20-3, BH-20-4 and BH-20-6) were installed within the release extent footprint to a maximum depth of 20 feet bgs. Six (6) borings (BH-20-5 and BH-20-7 through BH-20-11) were installed around the perimeter of the release extent to a depth of 8 feet bgs. A total of forty-four (44) samples were submitted to Pace and analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

All analytical results from boring location BH-8 and the May 2020 sampling event were below Site RRALs, which characterized the eastern edge of the NRM2008348428 extent. Analytical results from the September 2020 assessment were below RRALs for BTEX. Analytical results from interior borings BH-20-3 and BH-20-4 were above Site reclamation RRALs for chloride and/or TPH down to 4 feet bgs. Analytical results associated with perimeter borings BH-20-9 and BH-20-5 were above Site reclamation RRALs for chloride and/or TPH concentrations at 0-1 feet and 2-3 feet, respectively. All other sample results were below Site RRALs.

In order to horizontally delineate the NRM2008348428 release extent and the historically impacted area near boring locations BH-20-5 and BH-20-9, Tetra Tech personnel installed three (3) additional borings to the north and northwest on November 11, 2020. These borings (BH-20-12 through BH-20-14) were installed using a hand auger to a maximum depth of 2 feet bgs. A total of four (4) samples were submitted to Pace and analyzed for chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Copies of the laboratory analytical reports and chain-of-custody documentation associated with all 2020 additional site delineation activities are included in Appendix C. The assessment and delineation boring locations are shown on Figure 4. Laboratory analytical results are summarized in Table 1.

The March 2020 NRM2008348428 release was considered vertically and horizontally delineated following the November 2020 additional delineation activities.

REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to remove the remaining impacted material as shown in Figure 5. Impacted soils will be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the RRALs. The central portion and southern area of the release extent that contains steel surface lines and subsurface lines will be hand-dug to a depth of 3 feet or the maximum extent practicable and heavy equipment will come no more than 3 feet from any pressurized lines.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 2,010 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 6. Twenty-three (23) confirmation floor samples and twenty-four (24) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 19,251 square feet.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 square feet of excavated area. Confirmation samples will be sent to Pace Laboratories for analysis of TPH (Method 8015 modified), BTEX (Method 8260B), and chloride (USEPA Method 300.0). Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade.

REVEGETATION PLAN

The backfilled areas will be seeded in Spring 2021 (first favorable growing season) to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Sandy Loam (SL) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed

(PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix E.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within ninety (90) days of NMOCD plan approval. The Work Plan for the 1RP-5079 (Incident ID NOY1815239274) release has been previously submitted under separate cover, on January 12, 2021, along with the proper fee application (FCC86-210112-C-1410). As the release footprints coincide and the remediation work plans are nearly identical, should this Work Plan gain NMOCD approval prior to the 1RP-5079 Work Plan, COP requests the opportunity to remediate both release extents with the approval of this Work Plan.

If this is acceptable, upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD for each release incident. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 338-2861 or Greg Pope 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

List of Attachments

Figures:

- Figure 1 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Soil Assessment
- Figure 4 – Proposed Remediation Extents
- Figure 5 – Alternative Confirmation Sampling Plan

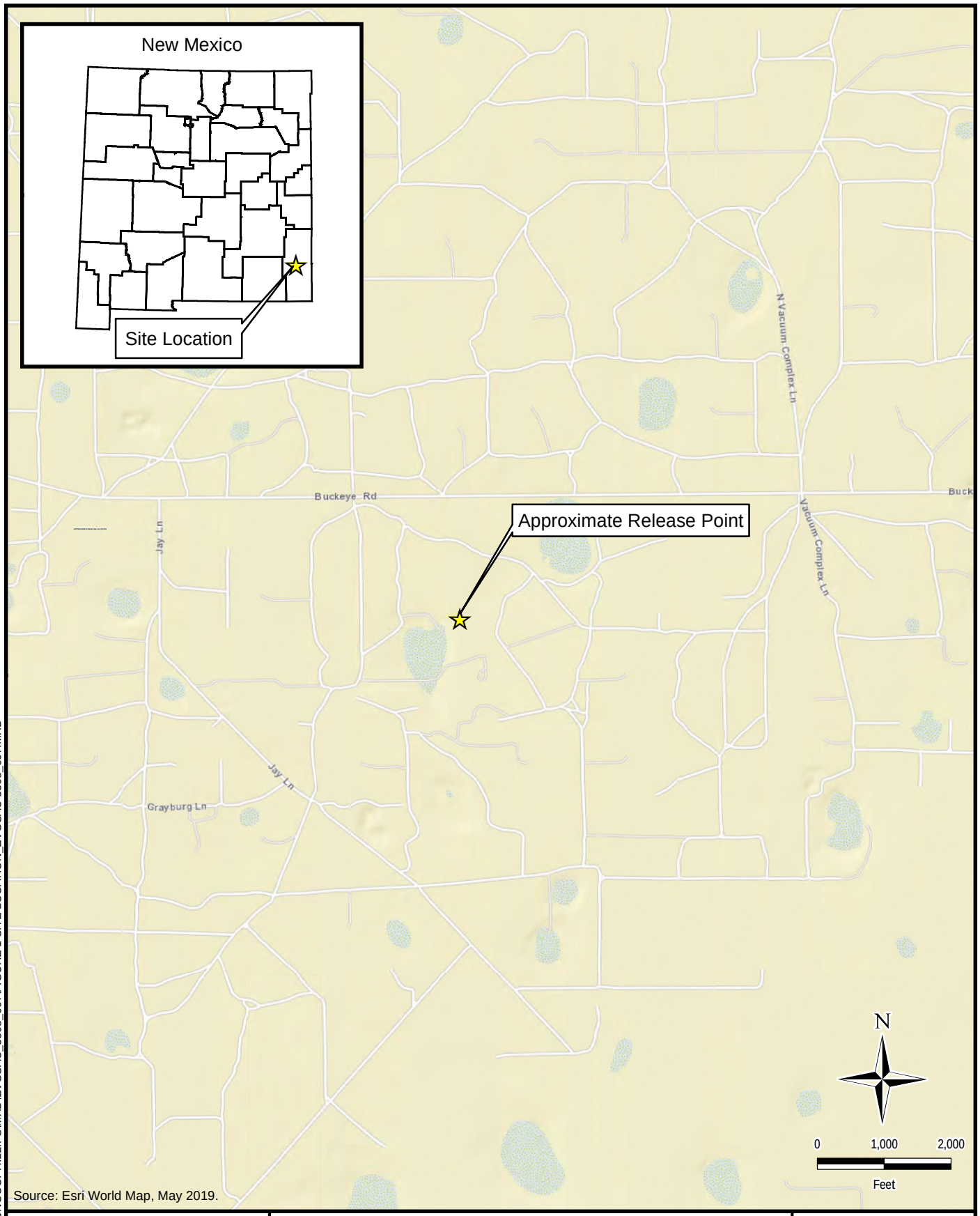
Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment and Delineation

Appendices:

- Appendix A – C-141 Form
- Appendix B – Site Characterization Data
- Appendix C – Laboratory Analytical Data
- Appendix D – Soil Boring Logs
- Appendix E – Photographic Documentation
- Appendix F – NMSLO Seed Mixture Details

FIGURES



Source: Esri World Map, May 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU_3308_007\FIGURE 1 SITE LOCATION_EVGSAU 3308_007.MXD

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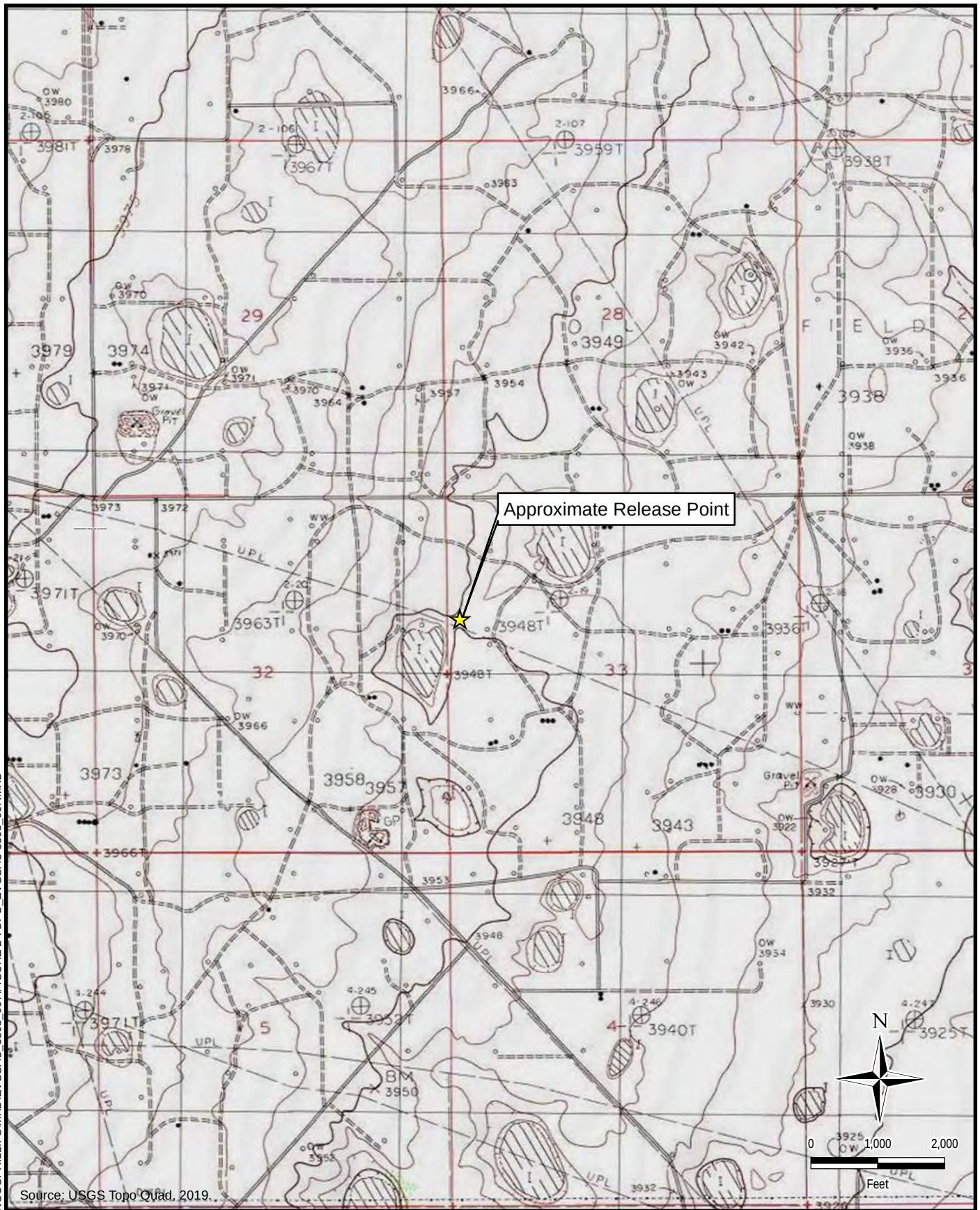
CONOCOPHILLIPS

NRM2008348428
(32.793771°, -103.470578°)
LEA COUNTY, NEW MEXICO

EVGSAU 3308-007 FLOWLINE RELEASE
SITE LOCATION MAP

PROJECT NO.:	212C-MD-01929
DATE:	OCTOBER 20, 2020
DESIGNED BY:	AAM

Figure No.
1



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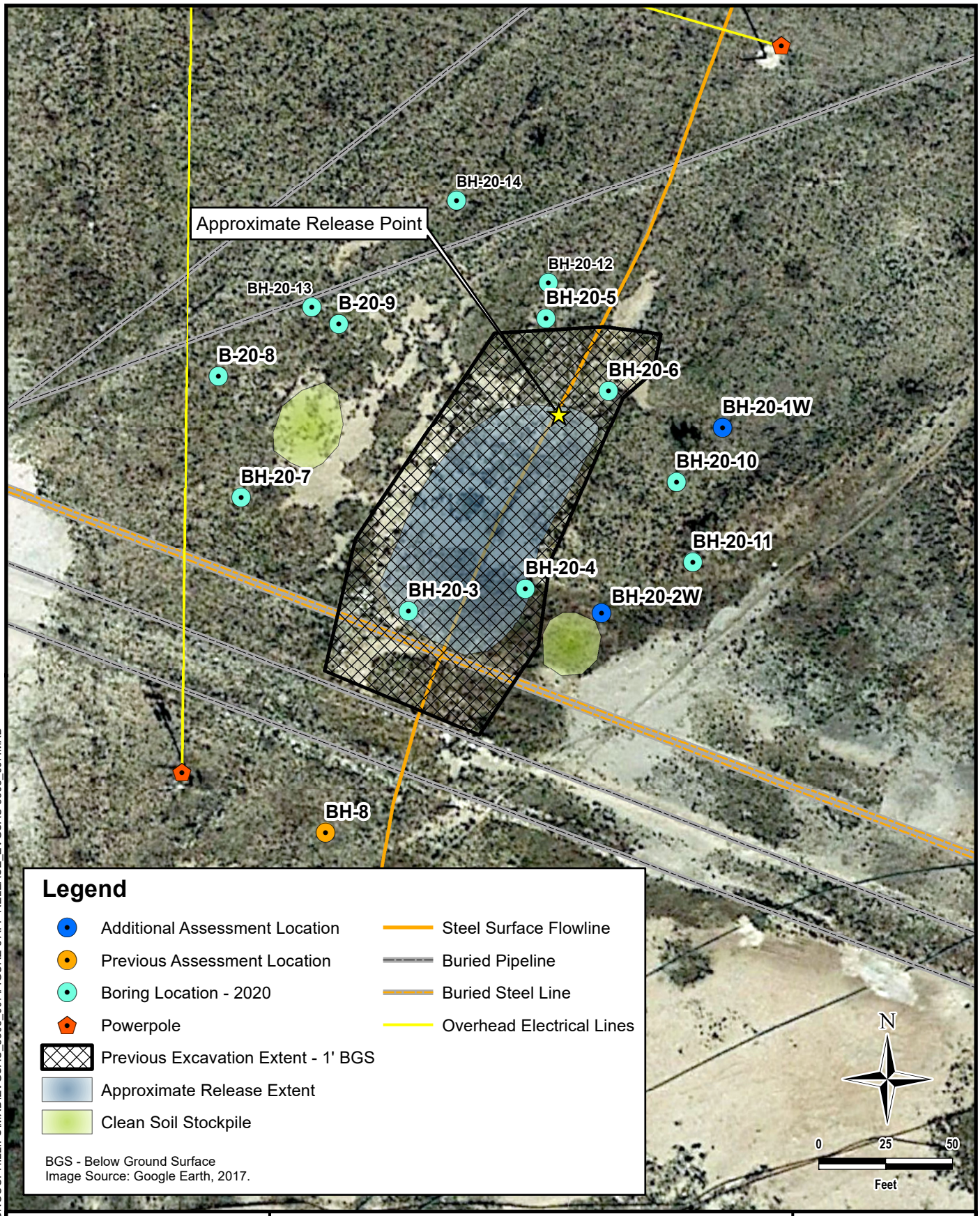
NRM2008348428
(32.793771°, -103.470578°)
LEA COUNTY, NEW MEXICO

EVGSAU 3308-007 FLOWLINE RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-01929
DATE:	OCTOBER 20, 2020
DESIGNED BY:	AAM

Figure No.

2



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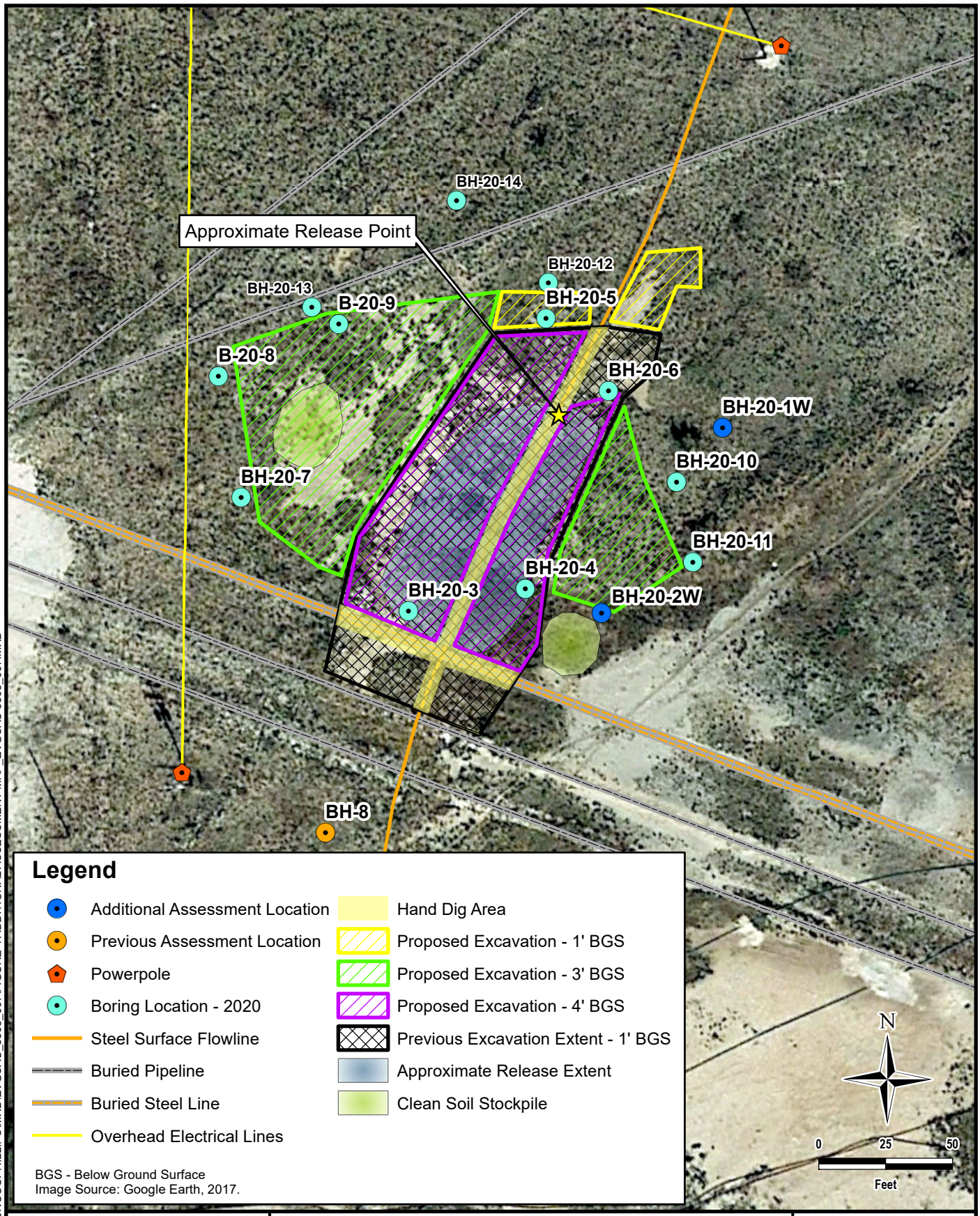
CONOCOPHILLIPS

NRM2008348428
(32.793771°, -103.470578°)
LEA COUNTY, NEW MEXICO

EVGSAU 3308-007 FLOWLINE RELEASE
APPROXIMATE RELEASE EXTENT AND SOIL ASSESSMENT

PROJECT NO.:	212C-MD-01929
DATE:	NOVEMBER 24, 2020
DESIGNED BY:	AAM

Figure No.
3



Legend

- Additional Assessment Location
- Previous Assessment Location
- Powerpole
- Boring Location - 2020
- Steel Surface Flowline
- Buried Pipeline
- Buried Steel Line
- Overhead Electrical Lines
- Hand Dig Area
- Proposed Excavation - 1' BGS
- Proposed Excavation - 3' BGS
- Proposed Excavation - 4' BGS
- Previous Excavation Extent - 1' BGS
- Approximate Release Extent
- Clean Soil Stockpile

BGS - Below Ground Surface
Image Source: Google Earth, 2017.

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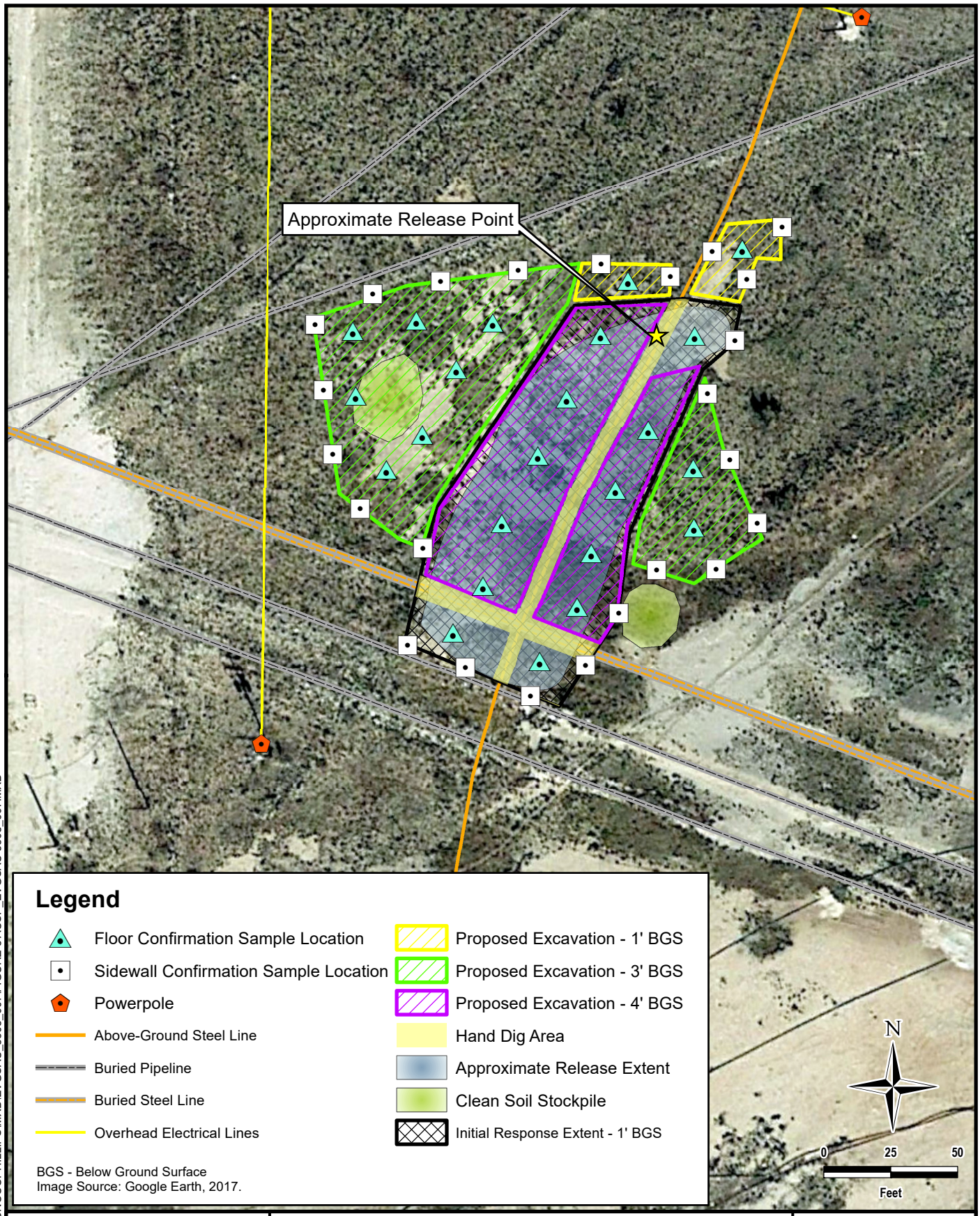
NRM2008348428
(32.793771°, -103.470578°)
LEA COUNTY, NEW MEXICO

EVGSAU 3308-007 FLOWLINE RELEASE
PROPOSED REMEDIATION EXTENT

PROJECT NO.:	212C-MD-01929
DATE:	NOVEMBER 24, 2020
DESIGNED BY:	AAM

Figure No.
4



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EVGSAU 3308-007 FLOWLINE RELEASE
ALTERNATIVE CONFIRMATION SAMPLING PLAN

PROJECT NO.:	212C-MD-01929
DATE:	NOVEMBER 24, 2020
DESIGNED BY:	AAM

Figure No.
5

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT AND DELINEATION - NRM2008348428
CONOCOPHILLIPS
EVGSAU 3308-007 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Field Screening Results		Chloride[1]		BTEX[2]									TPH[3]						
							Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX	GRO[4]		DRO		ORO		Total TPH (GRO+DRO+ORO)
		ft. bgs	Chloride	PID												C_3 - C_{10}		C_{10} - C_{28}		C_{28} - C_{40}		
			ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
BH-8	10/10/19	0-1	134	2.4	53.7		< 0.00111		0.00529	B J	< 0.00278		< 0.00720		0.00529	< 0.110		4.84		19.6		24.4
		2-3	-	2.1	50.1		< 0.00105		0.00417	B J	< 0.00263		< 0.00684		0.00417	< 0.105		3.03	J	9.03		12.06
		4-5	63.8	4.9	59.9	J3	< 0.00105		0.00402	B J	< 0.00261		< 0.00680		0.00402	< 0.105		< 4.18		< 4.18		-
		6-7	-	4.1	505		< 0.00105		0.00474	B J	< 0.00263		< 0.00683		0.00474	< 0.105		< 4.16		< 4.16		-
		9-10	-	5.5	641		< 0.00107		0.00444	B J	< 0.00269		< 0.00699		0.00444	< 0.107		< 4.30		< 4.30		-
		14-15	66.5	6.2	72.0		< 0.00102		0.00446	B J	< 0.00255		< 0.00664		0.00446	< 0.102		< 4.09		< 4.09		-
BH-20-1W	5/21/2020	0-1	-	-	< 21.0		< 0.00105		< 0.00524		< 0.00262		< 0.00681		-	0.0813	B J	10.6		20.4	B	31.1
		2-3	-	-	18.2	J	< 0.00102		< 0.00510		< 0.00255		< 0.00663		-	0.0567	B J	< 4.08		1.65	B J	1.71
		4-5	-	-	47.6		< 0.00103		< 0.00514		< 0.00257		< 0.00668		-	0.0497	B J	< 4.11		1.32	B J	1.37
		6-7	-	-	175		< 0.00105		< 0.00523		< 0.00261		< 0.00680		-	0.0463	B J	< 4.18		< 4.18		0.046
		9-10	-	-	191		< 0.00104		< 0.00521		< 0.00261		< 0.00678		-	< 0.104		< 4.17		< 4.17		-
BH-20-2W	5/21/2020	0-1	-	-	128		< 0.00103		< 0.00517		< 0.00258		< 0.00672		-	< 0.103		2.58	J	5.61	B	8.19
		2-3	-	-	315		< 0.00102		< 0.00511		< 0.00256		< 0.00664		-	< 0.102		< 4.09		3.02	B J	3.02
		4-5	-	-	278		< 0.00105		< 0.00523		< 0.00261		< 0.00679		-	< 0.105		< 4.18		0.839	B J	0.84
BH-20-3	9/2/2020	1-2	-	0.0	***7800***		< 0.00106	J4	< 0.00528		< 0.00264		0.00098	J	0.00098	< 0.103		65.1	J3 J6	133		***198***
		3-4	-	0.0	***775***		< 0.00106	J4	< 0.00530		< 0.00265		0.00133	J	0.00133	< 0.103		2.42	J	2.74	B J	5.16
		5-6	-	-	41.4		< 0.00117		< 0.00585		< 0.00293		< 0.00761		-	< 0.108		2.44	J	1.42	B J	3.86
		7-8	-	-	329		< 0.00110	J4	< 0.00551		< 0.00276		< 0.00716		-	< 0.105		2.61	J	2.6	B J	5.21
		9-10	215	-	52.9		< 0.00112	J4	< 0.00561		< 0.00280		< 0.00729		-	< 0.106		4.24		0.909	B J	5.15
		14-15	137	-	284		< 0.00107	J4	< 0.00535		< 0.00267		0.00098	J	0.00098	< 0.103		2.05	J	1.23	B J	3.28
BH-20-4	9/2/2020	1-2	-	0.0	***5890***		< 0.00101	J4	< 0.00506		< 0.00253		0.00160	J	0.00160	< 0.101		38.8		71.6		***110***
		3-4	-	0.0	***1070***		< 0.00106	J4	< 0.00532		< 0.00266		< 0.00692		-	< 0.103		6.05		15.9		22.0
		5-6	-	0.0	937		< 0.00111	J4	< 0.00557		< 0.00278		< 0.00724		-	< 0.106		1.90	J	1.85	B J	3.75
		7-8	777	-	100		< 0.00148	J4	< 0.00742		< 0.00371		< 0.00965		-	0.0277	B J	< 4.97		0.441	B J	0.47
		9-10	1230	-	955		< 0.00111	J4	< 0.00555		< 0.00277		0.00114	J	0.00114	< 0.105		2.32	J	1.28	B J	3.60
		14-15	1150	-	863		< 0.00111		< 0.00556		< 0.00278		< 0.00723		-	0.0270	B J	2.45	J	2.12	B J	4.57
		18-19	688	-	481		< 0.00114		< 0.00571		< 0.00285		< 0.00742		-	0.0333	BJ	3.23	J	1.48	B J	4.74
		19-20	740	-	463		< 0.00111		< 0.00554		< 0.00277		< 0.00721		-	0.0357	BJ	2.03	J	0.683	B J	2.75
BH-20-5	9/2/2020	0-1	31	0.0	289		< 0.00111		< 0.00556		< 0.00278		< 0.00723		-	0.0503	BJ	22.7		78		***101***
		2-3	47	0.0	51.3		< 0.00107		< 0.00533		< 0.00267		< 0.00693		-	0.0227	BJ	3.19	J	10.5		13.7
		4-5	52	-	56.5		< 0.00105		< 0.00523		< 0.00261		0.00111	J	0.00111	0.0267	BJ	2.68	J	3.6	B J	6.31
		7-8	39	-	22.6		0.00053	J	< 0.00510		< 0.00255		0.00106	J	0.00159	0.0383	BJ	4.1		9.97		14.1
BH-20-6	9/2/2020	1-2	75	0.0	221		< 0.00103		< 0.00513		< 0.00257		< 0.00667		-	0.026	BJ	7.51		21		28.5
		3-4	91	0.0	453		< 0.00108		< 0.00539		< 0.00269		< 0.00700		-	0.0244	BJ	2.14	J	1.6	B J	3.76
		5-6	-	-	580		< 0.00114		< 0.00570		< 0.00285		< 0.00741		-	< 0.107		< 4.28		0.45	B J	0.45
		7-8	-	-	416		< 0.00108		< 0.00541		< 0.00270		< 0.00703		-	< 0.104		< 4.16		< 4.16		-
		9-10	110	0.0	50.8		< 0.00108		< 0.00541		< 0.00271		< 0.00704		-	0.0414	BJ	< 4.17		0.368	B J	0.41
		14-15	77	-	22.7		< 0.00114		< 0.00572		< 0.00286		< 0.00744		-	0.0318	BJ	4.18	J	4.27	B J	8.48

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT AND DELINEATION - NRM2008348428
CONOCOPHILLIPS
EVGSAU 3308-007 FLOWLINE RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Field Screening Results		Chloride[1]		BTEX[2]									TPH[3]						
							Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX	GRO[4] C_3 - C_{10}		DRO C_{10} - C_{28}		ORO C_{28} - C_{40}		Total TPH (GRO+DRO+ORO)
		ft. bgs	Chloride	PID																		
			ppm		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
BH-20-7	9/2/2020	0-1	70	0.0	136		< 0.00105		< 0.00527		< 0.00263		< 0.00685		-	0.0226	BJ	1.91	J	7.07	B J	9.00
		2-3	252	0.0	121		< 0.00111		< 0.00556		< 0.00278		< 0.00723		-	< 0.106		1.91	J	6.53	B	8.44
		4-5	117	-	170		< 0.00104		< 0.00518		< 0.00259		< 0.00673		-	0.0259	BJ	< 4.07		< 4.07		0.03
		7-8	-	-	104		< 0.00107		< 0.00536		< 0.00268		< 0.00697		-	0.0248	BJ	3.27	J	4.71	B	8.00
BH-20-8	9/2/2020	0-1	130	0.0	214		< 0.00104		< 0.00522		< 0.00261		< 0.00678		-	0.0357	BJ	4.54		19.5	B	24.1
		2-3	234	0.0	449		< 0.00109		< 0.00545		< 0.00273		< 0.00709		-	< 0.105		< 4.18		1.79	B J	1.79
		4-5	301	-	287		< 0.00110		< 0.00548		< 0.00274		< 0.00713		-	< 0.106		< 4.19		< 4.19		-
		7-8	269	-	128		< 0.00112		< 0.00558		< 0.00279		< 0.00725		-	< 0.106		< 4.23		< 4.23		-
BH-20-9	9/2/2020	0-1	66	0.0	79.2		< 0.00103		< 0.00517		< 0.00258		< 0.00672		-	< 0.102		3.23	J	12.2	B	15.4
		2-3	256	0.0	***674***		< 0.00106		< 0.00530		< 0.00265		< 0.00689		-	< 0.103		2.35	J	7.98	B	10.3
		4-5	145	-	238		< 0.00105		< 0.00524		< 0.00262		< 0.00681		-	< 0.102		< 4.10		< 4.10		-
		7-8	93	-	45.7		0.000816	J	< 0.00563		0.00129	J	0.00315	J	0.005256	< 0.106		< 4.25		< 4.25		-
BH-20-10	9/2/2020	0-1	161	0.0	41		< 0.00103		0.00569		< 0.00259		0.00152	J	0.00721	< 0.102		7.29		16.9	B	24.2
		2-3	334	0.0	513		< 0.00105		< 0.00523		< 0.00261		0.00202	J	0.00202	< 0.102		1.77	J	6.37	B	8.14
		4-5	254	-	459		< 0.00106		< 0.00529		< 0.00265		0.00212	J	0.00212	< 0.103		< 4.12		1.36	BJ	1.36
		7-8	291	-	296		< 0.00105		< 0.00526		< 0.00263		< 0.00683		-	< 0.103		< 4.10		0.498	J	0.498
BH-20-11	9/2/2020	0-1	149	0.0	112		< 0.00105		< 0.00523		< 0.00261		< 0.00680		-	0.0584		10.4		38.8		49.3
		2-3	311	-	457		< 0.00105		< 0.00527		< 0.00264		< 0.00685		-	< 0.103		3.22	J	5.43		8.65
		4-5	73	-	< 20.9		< 0.00109		< 0.00545		< 0.00273		< 0.00709		-	< 0.105		< 4.18		0.363	J	0.36
		7-8	49	-	15.7	J	< 0.00102		< 0.00508		< 0.00254		< 0.00661		-	< 0.101		< 4.03		1.28	J	1.28
BH-20-12	11/11/2020	0-1	-	-	68.2		< 0.00105		< 0.00526		< 0.00263		0.00344	J	0.00344	1.48	J	5.60		32.9		40.0
BH-20-13	11/11/2020	0-1	-	-	43.2		< 0.00105		< 0.00523		< 0.00262		0.00165	J	0.00165	2.19	J	2.85	J	22.3		27.3
		1-2	-	-	< 20.6		< 0.00106		< 0.00530		< 0.00265		< 0.00689		-	< 0.103		11.7		68.3		80.0
BH-20-14	11/11/2020	0-1	-	-	126		< 0.00105		< 0.00526		< 0.00263		< 0.00684		-	0.0290	J	3.68		21.4		25.1

NOTES:

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

Bold and italicized values indicate exceedance of proposed RRALs

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

QUALIFIERS:

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

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 Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party ConocoPhillips	OGRID 217817
Contact Name – Charles Beauvais	Contact Telephone – 575-988-2043
Contact email – charles.r.beauvais@conocophillips.com	Incident # *(assigned by OCD)*
Contact mailing address – 15 W London Rd, Loving, NM 88256	

Location of Release Source

Latitude ~~32.7934~~ 32.793725° Longitude ~~-103.4704~~ -103.470600°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: EVGSAU 3308-007	Site Type: FLOWLINE/OFF PAD
Date Release Discovered: 03/16/2020	API# *(if applicable)* 30-025-32219

Unit Letter	Section	Township	Range	County
~~D~~ E	33	17S	35E	LEA

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name: State Land Office, Ryan Mann 505-699-1989*)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) .6	Volume Recovered (bbls) .6
☒ Produced Water	Volume Released (bbls) 134.6	Volume Recovered (bbls) 129.4
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

FLOWLINE FOR THE EVGSAU 3308-007 DEVELOPED A LEAK AT A PIPE CONNECTION. SPILL WAS CONTAINED INTO AN "IN PROGRESS" REMEDIATION WHICH MADE FOR EASY RECOVERY. A FENCE IS INSTALLED AROUND THE SPILL SITE. Release occurred from flowline with release point located approximately 1270' south-southwest of the EVGSAU 3308-007 wellhead.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? An authorized release of a volume, excluding gas, in excess of 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Completed by Charles Beauvais on 3/17/2020 at 9:12 AM. The recipients were Mr. Griswold, Mr. Bradford, and EMNRD-OCD email accounts.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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: Charles Beauvais Title: Environmental Coordinator

Signature: Date: 03/18/2020

email: charles.r.beauvais@conocophillips.com Telephone: 575-988-2043

NRM2008348428 incident number. C-141 resubmitted with corrections via the payment portal on 6/24/2020 . crb.

OCD Only

Received by: Date:

L48 Spill Volume Estimate Form

Facility Name & Number:	EVGSAU 3308-007
Asset Area:	SENM (Buckeye)
Release Discovery Date & Time:	3/16/20 9:00am
Release Type:	Produced Water
Provide any known details about the event:	Flowline leak. Vacuum truck was able to recover 129.4 bbls of water and .6 bbls of oil (.5%) oil

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	60.0	50.0	1.00	11.67%	44.500	5.193			
Rectangle B					0.000	0.000			
Rectangle C					0.000	0.000			
Rectangle D					0.000	0.000			
Rectangle E					0.000	0.000			
Rectangle F					0.000	0.000			
Rectangle G					0.000	0.000			
Rectangle H					0.000	0.000			
Rectangle I					0.000	0.000			
Rectangle J					0.000	0.000			
					Total Volume Release:	5.193			

State of New Mexico
Oil Conservation Division

Incident ID	NRM2008348428
District RP	
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?	90 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2008348428
District RP	
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 & Remediation

Signature: Date: 3/15/2021

email: marvin.soriwei@conocophillips.com Telephone: 8324862730

OCD Only

Received by: Cristina Eads Date: 04/06/2021

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NRM2008348428
District RP	
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 Soriwei Title: Program Manager, Risk Management & Remediation

Signature: Date: 3/15/2021

email: marvin.soriwei@conocophillips.com Telephone: 8324862730

OCD Only

Received by: Cristina Eads Date: 04/06/2021

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Date: 04/06/2021

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-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 04829 S5	L	LE	3	1		33	17S	35E	643347	3629400*	408	220	90	130
L 04578	L	LE				33	17S	35E	643962	3629198*	848	126	60	66
L 04880	L	LE	2	3		33	17S	35E	643757	3629002*	893	145	90	55

Average Depth to Water: **80 feet**

Minimum Depth: **60 feet**

Maximum Depth: **90 feet**

Record Count: 3

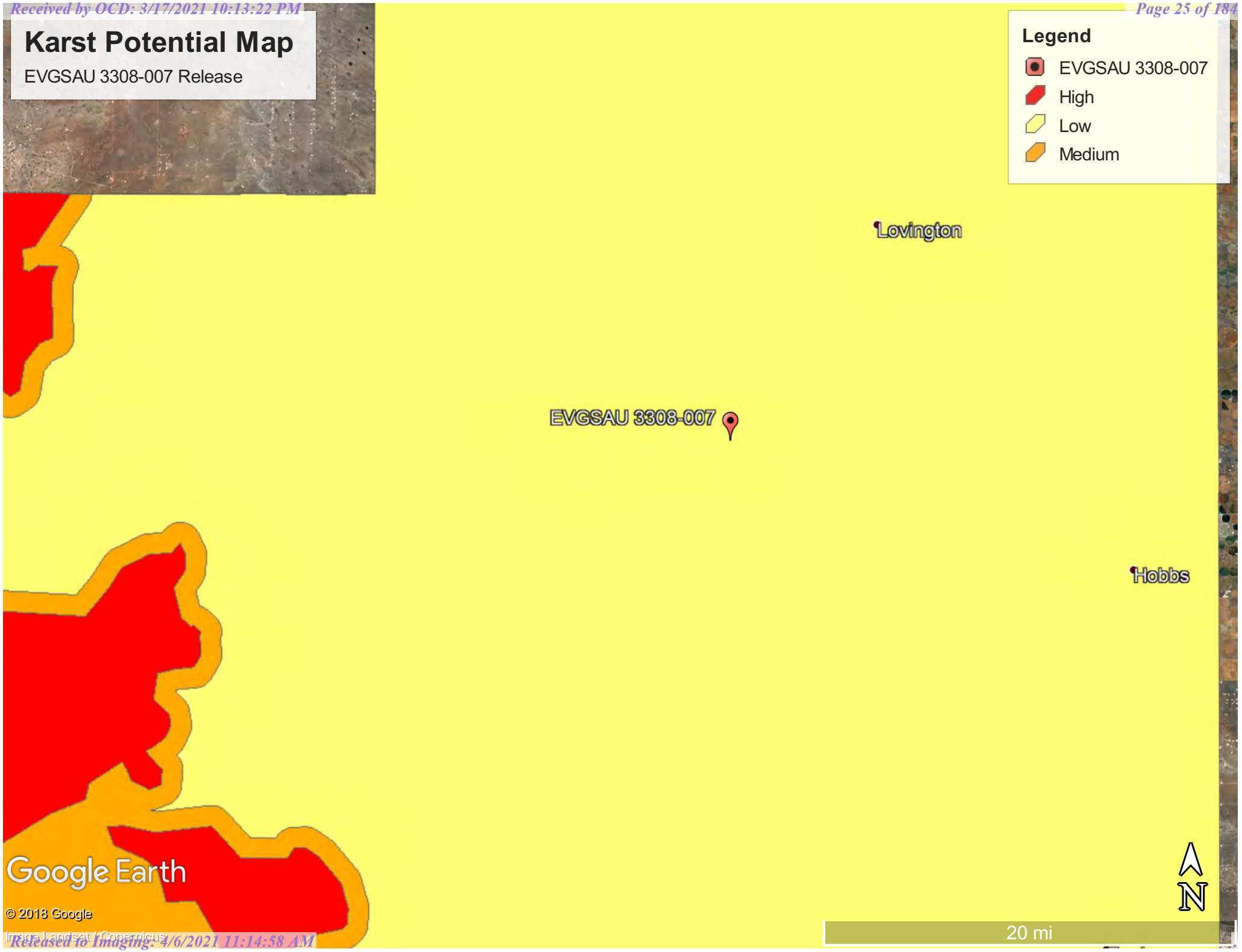
UTMNAD83 Radius Search (in meters):

Easting (X): 643372 **Northing (Y):** 3629808.219 **Radius:** 1000

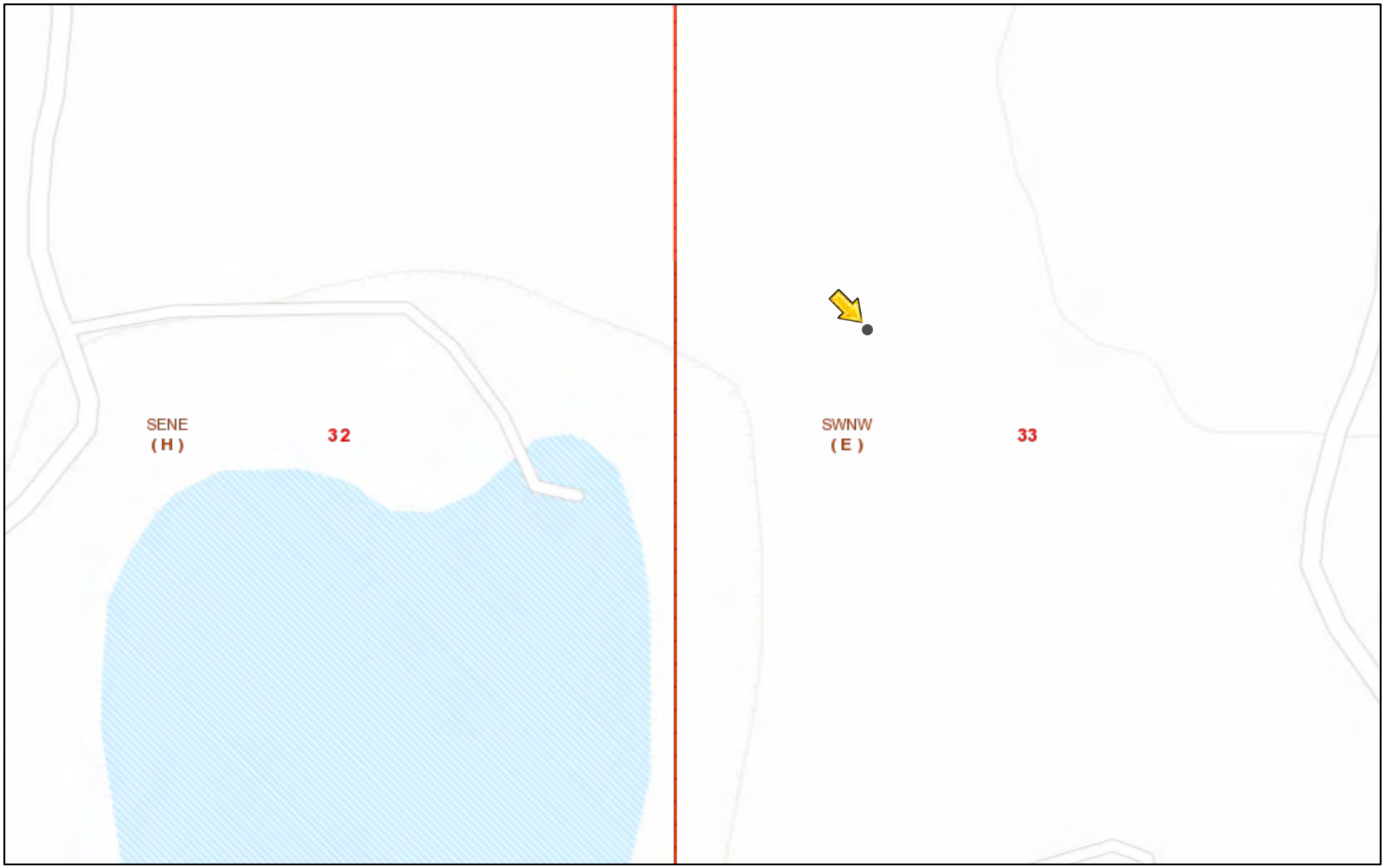
***UTM location was derived from PLSS - see Help**

Karst Potential Map

EVGSAU 3308-007 Release



Water Bodies



9/21/2020, 9:36:29 AM

Override 1

OCD District Offices

PLSS First Division

PLSS Second Division

1:2,257

0 0.01 0.03 0.06 mi

0 0.03 0.05 0.1 km

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

APPENDIX C
Laboratory Analytical Data

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

June 08, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1223379
Samples Received:	05/29/2020
Project Number:	212C-MD-01929
Description:	COP EVGSAU 3308-007

Report To: Christinal 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.

TABLE OF CONTENTS

BH-20-1W (0-1) L1223379-01 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 08:00 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 00:43	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485299	1	05/30/20 10:41	06/01/20 17:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 15:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/05/20 14:45	KME	Mt. Juliet, TN

BH-20-1W (2-3) L1223379-02 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 08:05 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 00:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485299	1	05/30/20 10:41	06/01/20 16:21	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 16:05	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/03/20 07:04	KME	Mt. Juliet, TN

BH-20-1W (4-5) L1223379-03 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 08:10 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 01:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485299	1	05/30/20 10:41	06/01/20 17:40	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 16:24	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/03/20 06:01	KME	Mt. Juliet, TN

BH-20-1W (6-7) L1223379-04 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 08:20 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 01:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485299	1	05/30/20 10:41	06/01/20 18:02	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 16:43	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/03/20 06:17	KME	Mt. Juliet, TN

BH-20-1W (9-10) L1223379-05 Solid

Collected by: Joe Tyler | Collected date/time: 05/21/20 08:30 | Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 01:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:41	06/01/20 14:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 17:02	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/03/20 06:33	KME	Mt. Juliet, TN

BH-20-2W (0-1) L1223379-06 Solid

Collected by: Joe Tyler
Collected date/time: 05/21/20 09:00
Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 02:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:41	06/01/20 15:27	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 17:21	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/03/20 06:48	KME	Mt. Juliet, TN

BH-20-2W (2-3) L1223379-07 Solid

Collected by: Joe Tyler
Collected date/time: 05/21/20 09:05
Received date/time: 05/29/20 09:00

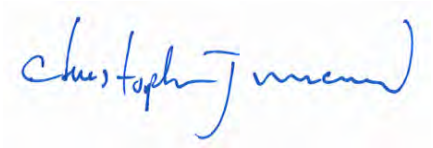
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 02:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:41	06/01/20 15:48	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 17:40	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1485512	1	06/02/20 12:46	06/02/20 19:56	KME	Mt. Juliet, TN

BH-20-2W (4-5) L1223379-08 Solid

Collected by: Joe Tyler
Collected date/time: 05/21/20 09:10
Received date/time: 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 03:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:41	06/01/20 17:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485238	1	05/30/20 10:41	06/01/20 17:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1485512	1	06/02/20 12:46	06/02/20 20:09	KME	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

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	06/03/2020 22:18	WG1486307

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.64	21.0	1	06/05/2020 00:43	WG1485960

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	0.0813	B J	0.0227	0.105	1	06/01/2020 17:17	WG1485299
(S) a,a,a-Trifluorotoluene(FID)	*94.4*			*77.0-120*		*06/01/2020 17:17*	WG1485299

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		0.000489	0.00105	1	06/01/2020 15:46	WG1485238
Toluene	U		0.00136	0.00524	1	06/01/2020 15:46	WG1485238
Ethylbenzene	U		0.000772	0.00262	1	06/01/2020 15:46	WG1485238
Total Xylenes	U		0.000922	0.00681	1	06/01/2020 15:46	WG1485238
(S) Toluene-d8	*105*			*75.0-131*		*06/01/2020 15:46*	WG1485238
(S) 4-Bromofluorobenzene	*92.4*			*67.0-138*		*06/01/2020 15:46*	WG1485238
(S) 1,2-Dichloroethane-d4	*79.4*			*70.0-130*		*06/01/2020 15:46*	WG1485238

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	10.6		1.69	4.19	1	06/05/2020 14:45	WG1484968
C28-C40 Oil Range	20.4	B	0.287	4.19	1	06/05/2020 14:45	WG1484968
(S) o-Terphenyl	*129*			*18.0-148*		*06/05/2020 14:45*	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.1		1	06/03/2020 22:18	WG1486307

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	18.2	J	9.38	20.4	1	06/05/2020 00:58	WG1485960

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	0.0567	B J	0.0221	0.102	1	06/01/2020 16:21	WG1485299
(S) a,a,a-Trifluorotoluene(FID)	*92.9*			*77.0-120*		*06/01/2020 16:21*	WG1485299

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		0.000476	0.00102	1	06/01/2020 16:05	WG1485238
Toluene	U		0.00133	0.00510	1	06/01/2020 16:05	WG1485238
Ethylbenzene	U		0.000751	0.00255	1	06/01/2020 16:05	WG1485238
Total Xylenes	U		0.000897	0.00663	1	06/01/2020 16:05	WG1485238
(S) Toluene-d8	*107*			*75.0-131*		*06/01/2020 16:05*	WG1485238
(S) 4-Bromofluorobenzene	*93.7*			*67.0-138*		*06/01/2020 16:05*	WG1485238
(S) 1,2-Dichloroethane-d4	*78.1*			*70.0-130*		*06/01/2020 16:05*	WG1485238

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		1.64	4.08	1	06/03/2020 07:04	WG1484968
C28-C40 Oil Range	1.65	B J	0.279	4.08	1	06/03/2020 07:04	WG1484968
(S) o-Terphenyl	*70.9*			*18.0-148*		*06/03/2020 07:04*	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	06/03/2020 22:18	WG1486307

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	47.6		9.45	20.5	1	06/05/2020 01:13	WG1485960

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	0.0497	B J	0.0223	0.103	1	06/01/2020 17:40	WG1485299
(S) a,a,a-Trifluorotoluene(FID)	*96.0*			*77.0-120*		*06/01/2020 17:40*	WG1485299

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		0.000480	0.00103	1	06/01/2020 16:24	WG1485238
Toluene	U		0.00134	0.00514	1	06/01/2020 16:24	WG1485238
Ethylbenzene	U		0.000757	0.00257	1	06/01/2020 16:24	WG1485238
Total Xylenes	U		0.000904	0.00668	1	06/01/2020 16:24	WG1485238
(S) Toluene-d8	*106*			*75.0-131*		*06/01/2020 16:24*	WG1485238
(S) 4-Bromofluorobenzene	*92.7*			*67.0-138*		*06/01/2020 16:24*	WG1485238
(S) 1,2-Dichloroethane-d4	*75.9*			*70.0-130*		*06/01/2020 16:24*	WG1485238

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		1.65	4.11	1	06/03/2020 06:01	WG1484968
C28-C40 Oil Range	1.32	B J	0.282	4.11	1	06/03/2020 06:01	WG1484968
(S) o-Terphenyl	*67.7*			*18.0-148*		*06/03/2020 06:01*	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.6		1	06/03/2020 22:18	WG1486307

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	175		9.62	20.9	1	06/05/2020 01:28	WG1485960

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	0.0463	B J	0.0227	0.105	1	06/01/2020 18:02	WG1485299
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*77.0-120*		*06/01/2020 18:02*	WG1485299

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		0.000488	0.00105	1	06/01/2020 16:43	WG1485238
Toluene	U		0.00136	0.00523	1	06/01/2020 16:43	WG1485238
Ethylbenzene	U		0.000771	0.00261	1	06/01/2020 16:43	WG1485238
Total Xylenes	U		0.000920	0.00680	1	06/01/2020 16:43	WG1485238
(S) Toluene-d8	*108*			*75.0-131*		*06/01/2020 16:43*	WG1485238
(S) 4-Bromofluorobenzene	*93.0*			*67.0-138*		*06/01/2020 16:43*	WG1485238
(S) 1,2-Dichloroethane-d4	*75.9*			*70.0-130*		*06/01/2020 16:43*	WG1485238

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		1.68	4.18	1	06/03/2020 06:17	WG1484968
C28-C40 Oil Range	U		0.287	4.18	1	06/03/2020 06:17	WG1484968
(S) o-Terphenyl	*72.0*			*18.0-148*		*06/03/2020 06:17*	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.9		1	06/03/2020 22:18	WG1486307

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	191		9.59	20.9	1	06/05/2020 01:58	WG1485960

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		0.0226	0.104	1	06/01/2020 14:38	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*06/01/2020 14:38*	WG1485339

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		0.000487	0.00104	1	06/01/2020 17:02	WG1485238
Toluene	U		0.00136	0.00521	1	06/01/2020 17:02	WG1485238
Ethylbenzene	U		0.000768	0.00261	1	06/01/2020 17:02	WG1485238
Total Xylenes	U		0.000918	0.00678	1	06/01/2020 17:02	WG1485238
(S) Toluene-d8	*107*			*75.0-131*		*06/01/2020 17:02*	WG1485238
(S) 4-Bromofluorobenzene	*92.6*			*67.0-138*		*06/01/2020 17:02*	WG1485238
(S) 1,2-Dichloroethane-d4	*72.6*			*70.0-130*		*06/01/2020 17:02*	WG1485238

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		1.68	4.17	1	06/03/2020 06:33	WG1484968
C28-C40 Oil Range	U		0.286	4.17	1	06/03/2020 06:33	WG1484968
(S) o-Terphenyl	*67.8*			*18.0-148*		*06/03/2020 06:33*	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	06/03/2020 22:18	WG1486307

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	128		9.51	20.7	1	06/05/2020 02:13	WG1485960

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	06/01/2020 15:27	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*06/01/2020 15:27*	WG1485339

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	06/01/2020 17:21	WG1485238
Toluene	U		0.00134	0.00517	1	06/01/2020 17:21	WG1485238
Ethylbenzene	U		0.000762	0.00258	1	06/01/2020 17:21	WG1485238
Total Xylenes	U		0.000909	0.00672	1	06/01/2020 17:21	WG1485238
(S) Toluene-d8	*107*			*75.0-131*		*06/01/2020 17:21*	WG1485238
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*06/01/2020 17:21*	WG1485238
(S) 1,2-Dichloroethane-d4	*73.8*			*70.0-130*		*06/01/2020 17:21*	WG1485238

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	2.58	J	1.66	4.13	1	06/03/2020 06:48	WG1484968
C28-C40 Oil Range	5.61	B	0.283	4.13	1	06/03/2020 06:48	WG1484968
(S) o-Terphenyl	*70.0*			*18.0-148*		*06/03/2020 06:48*	WG1484968

BH-20-2W (2-3)
Collected date/time: 05/21/20 09:05

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	06/03/2020 21:57	WG1486309

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	315		9.40	20.4	1	06/05/2020 02:28	WG1485960

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		0.0222	0.102	1	06/01/2020 15:48	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	*97.4*			*77.0-120*		*06/01/2020 15:48*	WG1485339

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		0.000477	0.00102	1	06/01/2020 17:40	WG1485238
Toluene	U		0.00133	0.00511	1	06/01/2020 17:40	WG1485238
Ethylbenzene	U		0.000753	0.00256	1	06/01/2020 17:40	WG1485238
Total Xylenes	U		0.000900	0.00664	1	06/01/2020 17:40	WG1485238
(S) Toluene-d8	*108*			*75.0-131*		*06/01/2020 17:40*	WG1485238
(S) 4-Bromofluorobenzene	*92.4*			*67.0-138*		*06/01/2020 17:40*	WG1485238
(S) 1,2-Dichloroethane-d4	*73.8*			*70.0-130*		*06/01/2020 17:40*	WG1485238

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		1.65	4.09	1	06/02/2020 19:56	WG1485512
C28-C40 Oil Range	3.02	B J	0.280	4.09	1	06/02/2020 19:56	WG1485512
(S) o-Terphenyl	*75.8*			*18.0-148*		*06/02/2020 19:56*	WG1485512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	06/03/2020 21:57	WG1486309

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	278		9.62	20.9	1	06/05/2020 03:13	WG1485960

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		0.0227	0.105	1	06/01/2020 17:38	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	*106*			*77.0-120*		*06/01/2020 17:38*	WG1485339

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		0.000488	0.00105	1	06/01/2020 17:59	WG1485238
Toluene	U		0.00136	0.00523	1	06/01/2020 17:59	WG1485238
Ethylbenzene	U		0.000770	0.00261	1	06/01/2020 17:59	WG1485238
Total Xylenes	U		0.000920	0.00679	1	06/01/2020 17:59	WG1485238
(S) Toluene-d8	*108*			*75.0-131*		*06/01/2020 17:59*	WG1485238
(S) 4-Bromofluorobenzene	*92.9*			*67.0-138*		*06/01/2020 17:59*	WG1485238
(S) 1,2-Dichloroethane-d4	*78.6*			*70.0-130*		*06/01/2020 17:59*	WG1485238

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		1.68	4.18	1	06/02/2020 20:09	WG1485512
C28-C40 Oil Range	0.839	B J	0.286	4.18	1	06/02/2020 20:09	WG1485512
(S) o-Terphenyl	*70.0*			*18.0-148*		*06/02/2020 20:09*	WG1485512

Method Blank (MB)

(MB) R3535059-1 06/03/20 22:18

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

L1223377-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1223377-03 06/03/20 22:18 • (DUP) R3535059-3 06/03/20 22:18

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.7	92.5	1	0.259		10

Laboratory Control Sample (LCS)

(LCS) R3535059-2 06/03/20 22:18

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) R3535057-1 06/03/20 21:57

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

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3535057-3 06/03/20 21:57

Analyte	Original Result	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids		93.9	1	0.947		10

Laboratory Control Sample (LCS)

(LCS) R3535057-2 06/03/20 21:57

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) R3535396-1 06/04/20 23:59

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

L1223379-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1223379-04 06/05/20 01:28 • (DUP) R3535396-3 06/05/20 01:43

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	175	174	1	0.587		20

L1223380-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1223380-08 06/05/20 06:12 • (DUP) R3535396-6 06/05/20 06:27

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	24.0	25.2	1	4.90		20

Laboratory Control Sample (LCS)

(LCS) R3535396-2 06/05/20 00:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	206	103	90.0-110	

L1223379-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223379-08 06/05/20 03:13 • (MS) R3535396-4 06/05/20 03:28 • (MSD) R3535396-5 06/05/20 03:43

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 %
Chloride	523	278	817	804	103	101	1	80.0-120			1.66	20

Method Blank (MB)

(MB) R3534835-2 06/01/20 12:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0462	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3534835-1 06/01/20 11:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.06	92.0	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*101*	*77.0-120*	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534835-3 06/01/20 23:50 • (MSD) R3534835-4 06/02/20 00:12

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	2750		4800	4990	93.1	100	500	10.0-151			3.88	28
(S) a,a,a-Trifluorotoluene(FID)					*115*	*116*		*77.0-120*				

Method Blank (MB)

(MB) R3534748-2 06/01/20 12:27

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)	*104*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3534748-1 06/01/20 11:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.46	81.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*95.4*	*77.0-120*	

Method Blank (MB)

(MB) R3534254-3 06/01/20 12:21

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	0.00145	J	0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*110*			*75.0-131*
(S) 4-Bromofluorobenzene	*93.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*81.3*			*70.0-130*

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

(LCS) R3534254-1 06/01/20 09:12 • (LCSD) R3534254-2 06/01/20 09:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.113	0.110	90.4	88.0	70.0-123			2.69	20
Ethylbenzene	0.125	0.116	0.110	92.8	88.0	74.0-126			5.31	20
Toluene	0.125	0.118	0.115	94.4	92.0	75.0-121			2.58	20
Xylenes, Total	0.375	0.362	0.345	96.5	92.0	72.0-127			4.81	20
(S) Toluene-d8				*99.8*	*100*	*75.0-131*				
(S) 4-Bromofluorobenzene				*97.2*	*94.9*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*95.6*	*91.9*	*70.0-130*				

L1223379-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223379-03 06/01/20 16:24 • (MS) R3534254-4 06/01/20 20:30 • (MSD) R3534254-5 06/01/20 20:49

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	0.128	U	0.0924	0.101	71.9	78.7	1	10.0-149			9.03	37
Ethylbenzene	0.128	U	0.0938	0.103	73.0	80.0	1	10.0-160			9.10	38
Toluene	0.128	U	0.105	0.115	81.6	89.6	1	10.0-156			9.35	38
Xylenes, Total	0.385	U	0.298	0.328	77.3	85.1	1	10.0-160			9.52	38
(S) Toluene-d8					*107*	*105*		*75.0-131*				
(S) 4-Bromofluorobenzene					*92.4*	*92.7*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*76.6*	*80.2*		*70.0-130*				

Method Blank (MB)

(MB) R3534522-1 06/03/20 04:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	2.60	J	0.274	4.00
(S) o-Terphenyl	*68.2*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3534522-2 06/03/20 04:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.6	69.2	50.0-150	
(S) o-Terphenyl			*59.0*	*18.0-148*	

Method Blank (MB)

(MB) R3534383-1 06/02/20 19:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.428	J	0.274	4.00
(S) o-Terphenyl	*64.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3534383-2 06/02/20 19:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.6	73.2	50.0-150	
(S) o-Terphenyl			*84.1*	*18.0-148*	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534744-1 06/03/20 18:16 • (MSD) R3534744-2 06/03/20 18:30

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	53.7		355	355	120	120	5	50.0-150			0.000	20
(S) o-Terphenyl					*56.9*	*62.2*		*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.

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	LAO00356
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

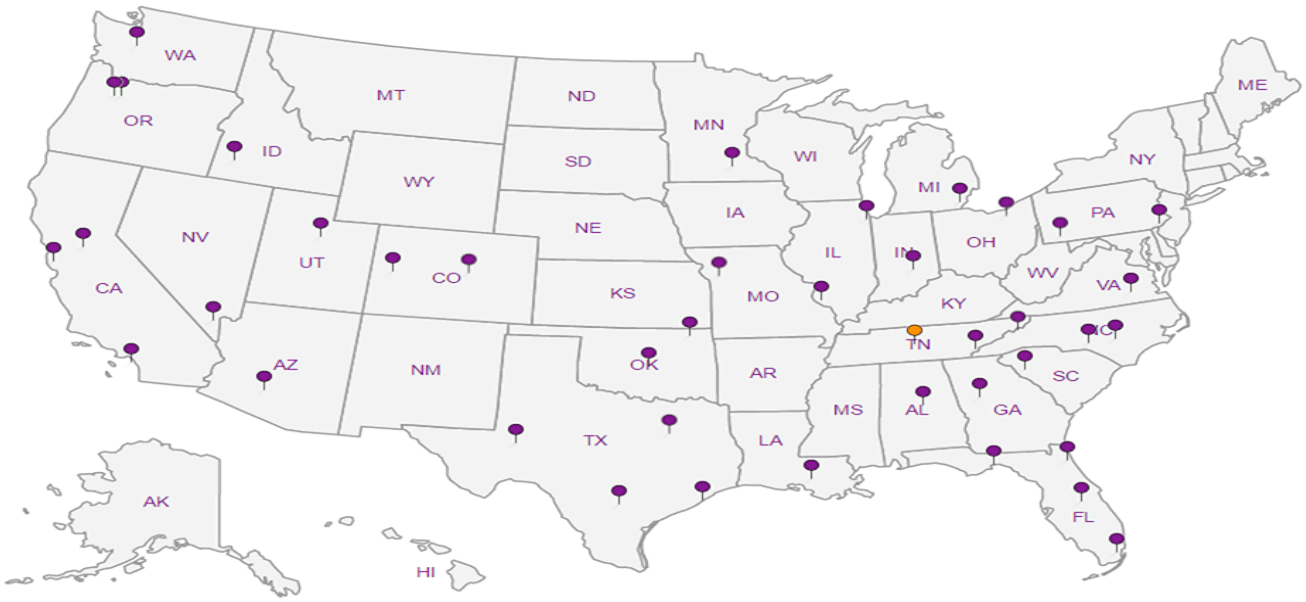
Third Party Federal Accreditations

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

Page : 1 of 1

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

1223379

Client Name:	Conco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 3308-007	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01929
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.)

F019

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	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	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
	BH-20-1W (0'-1')	05/21/20	0800		X				X			1	N	X		X												X						01
	BH-20-1W (2'-3')	05/21/20	0805		X				X			1	N	X		X												X						02
	BH-20-1W (4'-5')	05/21/20	0810		X				X			1	N	X		X												X						03
	BH-20-1W (6'-7')	05/21/20	0820		X				X			1	N	X		X												X						04
	BH-20-1W (9'-10')	05/21/20	0830		X				X			1	N	X		X												X						05
	BH-20-2W (0'-1')	05/21/20	0900		X				X			1	N	X		X												X						06
	BH-20-2W (2'-3')	05/21/20	0905		X				X			1	N	X		X												X						07
	BH-20-2W (4'-5')	05/21/20	0910		X				X			1	N	X		X												X						08

Relinquished by: Bill D. Suttle	Date: 5-28-20	Time: 12:30	Received by: [signature]
Relinquished by: [signature]	Date: 5-28-20	Time: 16:00	Received by: FedEx
Relinquished by:	Date:	Time:	Received by: L. Walker 5/29/20 09:00

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

1790 3030 2916

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:	COPHERA	1223319	
Cooler Received/Opened On: 5/29/20	Temperature:	Amb	
Received By: Lakeacher Webster			
Signature: L. Webster			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?		✓	
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

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National Center for Testing & Innovation

ANALYTICAL REPORT

September 17, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1258582
Samples Received:	09/04/2020
Project Number:	212C-MD-01929
Description:	COP EVGSAU 3308-007

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.

TABLE OF CONTENTS

BH-20-3 (1-2) L1258582-01 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1541936	1	09/15/20 08:32	09/15/20 08:40	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	20	09/09/20 22:00	09/10/20 01:07	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541187	1	09/09/20 21:22	09/11/20 05:24	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540504	1	09/09/20 21:22	09/10/20 08:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542884	1	09/09/20 21:22	09/15/20 03:06	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 13:28	JN	Mt. Juliet, TN

BH-20-3 (3-4) L1258582-02 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1541936	1	09/15/20 08:32	09/15/20 08:40	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 01:22	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541187	1	09/09/20 21:22	09/11/20 05:47	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540504	1	09/09/20 21:22	09/10/20 09:14	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542884	1	09/09/20 21:22	09/15/20 03:25	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 08:06	JN	Mt. Juliet, TN

BH-20-3 (5-6) L1258582-03 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1541936	1	09/15/20 08:32	09/15/20 08:40	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 01:52	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541187	1	09/09/20 21:22	09/11/20 06:09	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540504	1	09/09/20 21:22	09/10/20 09:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542884	1	09/09/20 21:22	09/15/20 03:44	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 08:18	JN	Mt. Juliet, TN

BH-20-3 (7-8) L1258582-04 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1541936	1	09/15/20 08:32	09/15/20 08:40	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 02:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541187	1	09/09/20 21:22	09/11/20 06:31	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540504	1	09/09/20 21:22	09/10/20 09:55	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542884	1	09/09/20 21:22	09/15/20 04:02	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 10:13	JN	Mt. Juliet, TN

BH-20-3 (9-10) L1258582-05 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1541936	1	09/15/20 08:32	09/15/20 08:40	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 02:21	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541187	1	09/09/20 21:22	09/11/20 06:53	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540504	1	09/09/20 21:22	09/10/20 10:15	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542884	1	09/09/20 21:22	09/15/20 04:21	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 10:26	JN	Mt. Juliet, TN

BH-20-3 (14-15) L1258582-06 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1541936	1	09/15/20 08:32	09/15/20 08:40	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 02:36	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541187	1	09/09/20 21:22	09/11/20 07:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540504	1	09/09/20 21:22	09/10/20 10:36	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542884	1	09/09/20 21:22	09/15/20 04:40	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 10:39	JN	Mt. Juliet, TN

BH-20-4 (1-2) L1258582-07 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1541936	1	09/15/20 08:32	09/15/20 08:40	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	20	09/09/20 22:00	09/10/20 02:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541187	1	09/09/20 21:22	09/11/20 08:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540504	1	09/09/20 21:22	09/10/20 10:56	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542884	1	09/09/20 21:22	09/15/20 04:58	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 12:11	JN	Mt. Juliet, TN

BH-20-4 (3-4) L1258582-08 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1541936	1	09/15/20 08:32	09/15/20 08:40	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	5	09/09/20 22:00	09/10/20 03:36	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541187	1	09/09/20 21:22	09/11/20 08:23	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540504	1	09/09/20 21:22	09/10/20 11:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542884	1	09/09/20 21:22	09/15/20 05:17	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 12:24	JN	Mt. Juliet, TN

BH-20-4 (5-6) L1258582-09 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1541936	1	09/15/20 08:32	09/15/20 08:40	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	5	09/09/20 22:00	09/10/20 03:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541187	1	09/09/20 21:22	09/11/20 08:45	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540504	1	09/09/20 21:22	09/10/20 11:37	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542884	1	09/09/20 21:22	09/15/20 05:36	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 10:52	JN	Mt. Juliet, TN

BH-20-4 (7-8) L1258582-10 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542195	1	09/15/20 07:43	09/15/20 08:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 04:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 02:52	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540504	1	09/09/20 21:22	09/10/20 11:57	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542884	1	09/09/20 21:22	09/15/20 05:54	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 11:19	JN	Mt. Juliet, TN

BH-20-4 (9-10) L1258582-11 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542195	1	09/15/20 07:43	09/15/20 08:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 04:21	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 03:13	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540504	1	09/09/20 21:22	09/10/20 12:18	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542884	1	09/09/20 21:22	09/15/20 06:13	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 11:20	JN	Mt. Juliet, TN

BH-20-4 (14-15) L1258582-12 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542195	1	09/15/20 07:43	09/15/20 08:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 05:20	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 03:41	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540684	1	09/09/20 21:22	09/10/20 12:26	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 12:49	JN	Mt. Juliet, TN

BH-20-4 (18-19) L1258582-13 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542195	1	09/15/20 07:43	09/15/20 08:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 05:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 04:07	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540684	1	09/09/20 21:22	09/10/20 13:17	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 11:33	JN	Mt. Juliet, TN

BH-20-4 (19-20) L1258582-14 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542195	1	09/15/20 07:43	09/15/20 08:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 05:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 04:28	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540684	1	09/09/20 21:22	09/10/20 13:36	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 11:46	JN	Mt. Juliet, TN

BH-20-5 (0-1) L1258582-15 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542195	1	09/15/20 07:43	09/15/20 08:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 06:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 04:49	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540684	1	09/09/20 21:22	09/10/20 13:54	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 14:06	JN	Mt. Juliet, TN

BH-20-5 (2-3) L1258582-16 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542195	1	09/15/20 07:43	09/15/20 08:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 06:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 05:09	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540684	1	09/09/20 21:22	09/10/20 14:13	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 13:02	JN	Mt. Juliet, TN

BH-20-5 (4-5) L1258582-17 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542195	1	09/15/20 07:43	09/15/20 08:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 07:05	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 05:30	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540684	1	09/09/20 21:22	09/10/20 14:32	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 11:59	JN	Mt. Juliet, TN

BH-20-5 (7-8) L1258582-18 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542195	1	09/15/20 07:43	09/15/20 08:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 07:20	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 05:54	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540684	1	09/09/20 21:22	09/10/20 14:51	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 12:37	JN	Mt. Juliet, TN

BH-20-6 (1-2) L1258582-19 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542195	1	09/15/20 07:43	09/15/20 08:30	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 07:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 06:28	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540684	1	09/09/20 21:22	09/10/20 15:09	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542342	1	09/13/20 23:28	09/14/20 13:15	JN	Mt. Juliet, TN

BH-20-6 (3-4) L1258582-20 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542196	1	09/15/20 07:33	09/15/20 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540140	1	09/09/20 22:00	09/10/20 07:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 07:15	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540684	1	09/09/20 21:22	09/10/20 15:28	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 20:01	JN	Mt. Juliet, TN

BH-20-6 (5-6) L1258582-21 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542196	1	09/15/20 07:33	09/15/20 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 05:08	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 07:36	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 21:22	09/11/20 16:18	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 20:14	JN	Mt. Juliet, TN

BH-20-6 (7-8) L1258582-22 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542196	1	09/15/20 07:33	09/15/20 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 05:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 21:22	09/11/20 07:59	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 21:22	09/11/20 16:37	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 20:27	JN	Mt. Juliet, TN

BH-20-6 (9-10) L1258582-23 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542196	1	09/15/20 07:33	09/15/20 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 05:37	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 23:01	09/11/20 08:20	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 16:56	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 20:41	JN	Mt. Juliet, TN

BH-20-6 (14-15) L1258582-24 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542196	1	09/15/20 07:33	09/15/20 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 05:47	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 23:01	09/11/20 08:41	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 17:15	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 21:20	JN	Mt. Juliet, TN

BH-20-7 (0-1) L1258582-25 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542196	1	09/15/20 07:33	09/15/20 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 05:56	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 23:01	09/11/20 09:01	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 17:34	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 23:43	JN	Mt. Juliet, TN

BH-20-7 (2-3) L1258582-26 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542196	1	09/15/20 07:33	09/15/20 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 06:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 23:01	09/11/20 09:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 17:53	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 23:30	JN	Mt. Juliet, TN

BH-20-7 (4-5) L1258582-27 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542196	1	09/15/20 07:33	09/15/20 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 06:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 23:01	09/11/20 09:43	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 18:12	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 21:33	JN	Mt. Juliet, TN

BH-20-7 (7-8) L1258582-28 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542196	1	09/15/20 07:33	09/15/20 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 06:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 23:01	09/11/20 10:03	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 18:31	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 21:46	JN	Mt. Juliet, TN

BH-20-8 (0-1) L1258582-29 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542196	1	09/15/20 07:33	09/15/20 07:42	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 06:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541228	1	09/09/20 23:01	09/11/20 10:24	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 18:50	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/15/20 00:09	JN	Mt. Juliet, TN

BH-20-8 (2-3) L1258582-30 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542197	1	09/15/20 11:16	09/15/20 11:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 07:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/09/20 23:01	09/11/20 11:36	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 19:10	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 21:59	JN	Mt. Juliet, TN

BH-20-8 (4-5) L1258582-31 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542197	1	09/15/20 11:16	09/15/20 11:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 07:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1.01	09/09/20 23:01	09/11/20 11:56	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 19:29	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 22:12	JN	Mt. Juliet, TN

BH-20-8 (7-8) L1258582-32 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542197	1	09/15/20 11:16	09/15/20 11:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 07:22	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/09/20 23:01	09/11/20 12:17	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 19:48	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 22:25	JN	Mt. Juliet, TN

BH-20-9 (0-1) L1258582-33 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542197	1	09/15/20 11:16	09/15/20 11:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 07:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/09/20 23:01	09/11/20 12:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 20:07	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/15/20 00:35	JN	Mt. Juliet, TN

BH-20-9 (2-3) L1258582-34 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542197	1	09/15/20 11:16	09/15/20 11:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 08:00	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/09/20 23:01	09/11/20 12:59	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 20:26	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/15/20 00:22	JN	Mt. Juliet, TN

BH-20-9 (4-5) L1258582-35 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542197	1	09/15/20 11:16	09/15/20 11:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 08:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/09/20 23:01	09/11/20 13:19	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540685	1	09/09/20 23:01	09/11/20 20:45	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 22:38	JN	Mt. Juliet, TN

BH-20-9 (7-8) L1258582-36 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542197	1	09/15/20 11:16	09/15/20 11:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 08:38	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/09/20 23:01	09/11/20 13:40	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1543443	1	09/09/20 23:01	09/15/20 17:25	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 22:51	JN	Mt. Juliet, TN

BH-20-10 (0-1) L1258582-37 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542197	1	09/15/20 11:16	09/15/20 11:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 08:47	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/09/20 23:01	09/11/20 14:01	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1541911	1	09/09/20 23:01	09/12/20 15:09	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542933	1	09/09/20 23:01	09/15/20 03:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 23:56	JN	Mt. Juliet, TN

BH-20-10 (2-3) L1258582-38 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542197	1	09/15/20 11:16	09/15/20 11:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 08:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/09/20 23:01	09/11/20 14:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1541911	1	09/09/20 23:01	09/12/20 15:29	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1542933	1	09/09/20 23:01	09/15/20 02:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 23:04	JN	Mt. Juliet, TN

BH-20-10 (4-5) L1258582-39 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542197	1	09/15/20 11:16	09/15/20 11:24	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 09:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/09/20 23:01	09/11/20 14:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1543443	1	09/09/20 23:01	09/15/20 17:44	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542344	1	09/14/20 07:43	09/14/20 23:17	JN	Mt. Juliet, TN

BH-20-10 (7-8) L1258582-40 Solid

Collected by: John Thurston | Collected date/time: 09/02/20 00:00 | Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542198	1	09/15/20 13:14	09/15/20 13:28	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540146	1	09/10/20 01:30	09/10/20 09:16	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/09/20 23:01	09/11/20 15:03	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540981	1	09/09/20 23:01	09/10/20 17:15	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542522	1	09/15/20 14:33	09/15/20 21:33	JN	Mt. Juliet, TN

BH-20-11 (0-1) L1258582-41 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542198	1	09/15/20 13:14	09/15/20 13:28	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540149	1	09/10/20 14:06	09/10/20 20:46	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/10/20 10:27	09/11/20 15:24	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540981	1	09/10/20 10:27	09/10/20 17:34	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542522	1	09/15/20 14:33	09/15/20 23:51	JN	Mt. Juliet, TN

BH-20-11 (2-3) L1258582-42 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542198	1	09/15/20 13:14	09/15/20 13:28	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540149	1	09/10/20 14:06	09/10/20 20:55	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/10/20 10:27	09/11/20 15:45	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540981	1	09/10/20 10:27	09/10/20 17:53	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542522	1	09/15/20 14:33	09/15/20 21:46	JN	Mt. Juliet, TN

BH-20-11 (4-5) L1258582-43 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542198	1	09/15/20 13:14	09/15/20 13:28	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540149	1	09/10/20 14:06	09/10/20 21:05	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541325	1	09/10/20 10:27	09/11/20 16:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540981	1	09/10/20 10:27	09/10/20 18:12	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542522	1	09/15/20 14:33	09/15/20 21:58	JN	Mt. Juliet, TN

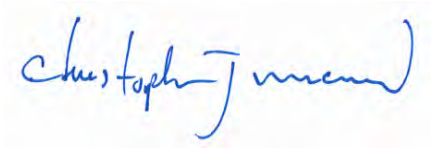
BH-20-11 (7-8) L1258582-44 Solid

Collected by: John Thurston
Collected date/time: 09/02/20 00:00
Received date/time: 09/04/20 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1542198	1	09/15/20 13:14	09/15/20 13:28	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1540149	1	09/10/20 14:06	09/10/20 21:14	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1541470	1	09/10/20 10:27	09/11/20 14:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1540981	1	09/10/20 10:27	09/10/20 18:31	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1542522	1	09/15/20 14:33	09/15/20 22:11	JN	Mt. Juliet, TN

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

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	09/15/2020 08:40	WG1541936

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	7800		189	411	20	09/10/2020 01:07	WG1540140

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	09/11/2020 05:24	WG1541187
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-120*		*09/11/2020 05:24*	WG1541187

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	J4	0.000493	0.00106	1	09/10/2020 08:53	WG1540504
Toluene	U		0.00137	0.00528	1	09/10/2020 08:53	WG1540504
Ethylbenzene	U		0.000778	0.00264	1	09/10/2020 08:53	WG1540504
Total Xylenes	0.000976	J	0.000929	0.00686	1	09/15/2020 03:06	WG1542884
(S) Toluene-d8	*98.6*			*75.0-131*		*09/10/2020 08:53*	WG1540504
(S) Toluene-d8	*101*			*75.0-131*		*09/15/2020 03:06*	WG1542884
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/10/2020 08:53*	WG1540504
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*09/15/2020 03:06*	WG1542884
(S) 1,2-Dichloroethane-d4	*78.1*			*70.0-130*		*09/10/2020 08:53*	WG1540504
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*09/15/2020 03:06*	WG1542884

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	65.1	J3 J6	1.65	4.11	1	09/14/2020 13:28	WG1542342
C28-C40 Oil Range	133		0.282	4.11	1	09/14/2020 13:28	WG1542342
(S) o-Terphenyl	*53.2*			*18.0-148*		*09/14/2020 13:28*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	09/15/2020 08:40	WG1541936

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	775		9.48	20.6	1	09/10/2020 01:22	WG1540140

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	09/11/2020 05:47	WG1541187
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-120*		*09/11/2020 05:47*	WG1541187

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	J4	0.000495	0.00106	1	09/10/2020 09:14	WG1540504
Toluene	U		0.00138	0.00530	1	09/10/2020 09:14	WG1540504
Ethylbenzene	U		0.000782	0.00265	1	09/10/2020 09:14	WG1540504
Total Xylenes	0.00133	J	0.000934	0.00690	1	09/15/2020 03:25	WG1542884
(S) Toluene-d8	*105*			*75.0-131*		*09/10/2020 09:14*	WG1540504
(S) Toluene-d8	*99.1*			*75.0-131*		*09/15/2020 03:25*	WG1542884
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/10/2020 09:14*	WG1540504
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*09/15/2020 03:25*	WG1542884
(S) 1,2-Dichloroethane-d4	*73.9*			*70.0-130*		*09/10/2020 09:14*	WG1540504
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*09/15/2020 03:25*	WG1542884

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	2.42	J	1.66	4.12	1	09/14/2020 08:06	WG1542342
C28-C40 Oil Range	2.74	B J	0.282	4.12	1	09/14/2020 08:06	WG1542342
(S) o-Terphenyl	*68.3*			*18.0-148*		*09/14/2020 08:06*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.2		1	09/15/2020 08:40	WG1541936

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	41.4		9.98	21.7	1	09/10/2020 01:52	WG1540140

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0235	0.108	1	09/11/2020 06:09	WG1541187
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-120*		*09/11/2020 06:09*	WG1541187

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	J4	0.000547	0.00117	1	09/10/2020 09:34	WG1540504
Toluene	U		0.00152	0.00585	1	09/10/2020 09:34	WG1540504
Ethylbenzene	U		0.000863	0.00293	1	09/10/2020 09:34	WG1540504
Total Xylenes	U		0.00103	0.00761	1	09/15/2020 03:44	WG1542884
(S) Toluene-d8	*97.7*			*75.0-131*		*09/10/2020 09:34*	WG1540504
(S) Toluene-d8	*99.4*			*75.0-131*		*09/15/2020 03:44*	WG1542884
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*09/10/2020 09:34*	WG1540504
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*09/15/2020 03:44*	WG1542884
(S) 1,2-Dichloroethane-d4	*90.0*			*70.0-130*		*09/10/2020 09:34*	WG1540504
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*09/15/2020 03:44*	WG1542884

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	2.44	J	1.75	4.34	1	09/14/2020 08:18	WG1542342
C28-C40 Oil Range	1.42	B J	0.297	4.34	1	09/14/2020 08:18	WG1542342
(S) o-Terphenyl	*64.0*			*18.0-148*		*09/14/2020 08:18*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.2		1	09/15/2020 08:40	WG1541936

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	329		9.67	21.0	1	09/10/2020 02:06	WG1540140

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0228	0.105	1	09/11/2020 06:31	WG1541187
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*77.0-120*		*09/11/2020 06:31*	WG1541187

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	J4	0.000515	0.00110	1	09/10/2020 09:55	WG1540504
Toluene	U		0.00143	0.00551	1	09/10/2020 09:55	WG1540504
Ethylbenzene	U		0.000812	0.00276	1	09/10/2020 09:55	WG1540504
Total Xylenes	U		0.000970	0.00716	1	09/15/2020 04:02	WG1542884
(S) Toluene-d8	*103*			*75.0-131*		*09/10/2020 09:55*	WG1540504
(S) Toluene-d8	*99.8*			*75.0-131*		*09/15/2020 04:02*	WG1542884
(S) 4-Bromofluorobenzene	*99.6*			*67.0-138*		*09/10/2020 09:55*	WG1540504
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/15/2020 04:02*	WG1542884
(S) 1,2-Dichloroethane-d4	*69.2*	J2		*70.0-130*		*09/10/2020 09:55*	WG1540504
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*09/15/2020 04:02*	WG1542884

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	2.61	J	1.69	4.20	1	09/14/2020 10:13	WG1542342
C28-C40 Oil Range	2.60	B J	0.288	4.20	1	09/14/2020 10:13	WG1542342
(S) o-Terphenyl	*61.0*			*18.0-148*		*09/14/2020 10:13*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.3		1	09/15/2020 08:40	WG1541936

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	52.9		9.76	21.2	1	09/10/2020 02:21	WG1540140

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		0.0230	0.106	1	09/11/2020 06:53	WG1541187
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*77.0-120*		*09/11/2020 06:53*	WG1541187

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	J4	0.000524	0.00112	1	09/10/2020 10:15	WG1540504
Toluene	U		0.00146	0.00561	1	09/10/2020 10:15	WG1540504
Ethylbenzene	U		0.000826	0.00280	1	09/10/2020 10:15	WG1540504
Total Xylenes	U		0.000987	0.00729	1	09/15/2020 04:21	WG1542884
(S) Toluene-d8	*103*			*75.0-131*		*09/10/2020 10:15*	WG1540504
(S) Toluene-d8	*101*			*75.0-131*		*09/15/2020 04:21*	WG1542884
(S) 4-Bromofluorobenzene	*98.2*			*67.0-138*		*09/10/2020 10:15*	WG1540504
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*09/15/2020 04:21*	WG1542884
(S) 1,2-Dichloroethane-d4	*69.9*	J2		*70.0-130*		*09/10/2020 10:15*	WG1540504
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/15/2020 04:21*	WG1542884

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		1.71	4.24	1	09/14/2020 10:26	WG1542342
C28-C40 Oil Range	0.909	B J	0.291	4.24	1	09/14/2020 10:26	WG1542342
(S) o-Terphenyl	*67.9*			*18.0-148*		*09/14/2020 10:26*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	09/15/2020 08:40	WG1541936

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	284		9.52	20.7	1	09/10/2020 02:36	WG1540140

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	09/11/2020 07:38	WG1541187
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-120*		*09/11/2020 07:38*	WG1541187

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	J4	0.000499	0.00107	1	09/10/2020 10:36	WG1540504
Toluene	U		0.00139	0.00535	1	09/10/2020 10:36	WG1540504
Ethylbenzene	U		0.000788	0.00267	1	09/10/2020 10:36	WG1540504
Total Xylenes	0.000979	J	0.000941	0.00695	1	09/15/2020 04:40	WG1542884
(S) Toluene-d8	*101*			*75.0-131*		*09/10/2020 10:36*	WG1540504
(S) Toluene-d8	*99.4*			*75.0-131*		*09/15/2020 04:40*	WG1542884
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/10/2020 10:36*	WG1540504
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*09/15/2020 04:40*	WG1542884
(S) 1,2-Dichloroethane-d4	*81.9*			*70.0-130*		*09/10/2020 10:36*	WG1540504
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*09/15/2020 04:40*	WG1542884

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	2.05	J	1.67	4.14	1	09/14/2020 10:39	WG1542342
C28-C40 Oil Range	1.23	B J	0.283	4.14	1	09/14/2020 10:39	WG1542342
(S) o-Terphenyl	*75.2*			*18.0-148*		*09/14/2020 10:39*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.4		1	09/15/2020 08:40	WG1541936

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	5890		185	403	20	09/10/2020 02:51	WG1540140

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		0.0218	0.101	1	09/11/2020 08:00	WG1541187
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-120*		*09/11/2020 08:00*	WG1541187

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	J4	0.000473	0.00101	1	09/10/2020 10:56	WG1540504
Toluene	U		0.00132	0.00506	1	09/10/2020 10:56	WG1540504
Ethylbenzene	U		0.000746	0.00253	1	09/10/2020 10:56	WG1540504
Total Xylenes	0.00160	J	0.000891	0.00658	1	09/15/2020 04:58	WG1542884
(S) Toluene-d8	*103*			*75.0-131*		*09/10/2020 10:56*	WG1540504
(S) Toluene-d8	*99.9*			*75.0-131*		*09/15/2020 04:58*	WG1542884
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*09/10/2020 10:56*	WG1540504
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*09/15/2020 04:58*	WG1542884
(S) 1,2-Dichloroethane-d4	*80.7*			*70.0-130*		*09/10/2020 10:56*	WG1540504
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*09/15/2020 04:58*	WG1542884

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	38.8		1.62	4.03	1	09/14/2020 12:11	WG1542342
C28-C40 Oil Range	71.6		0.276	4.03	1	09/14/2020 12:11	WG1542342
(S) o-Terphenyl	*63.5*			*18.0-148*		*09/14/2020 12:11*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	09/15/2020 08:40	WG1541936

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	1070		47.5	103	5	09/10/2020 03:36	WG1540140

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	09/11/2020 08:23	WG1541187
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-120*		*09/11/2020 08:23*	WG1541187

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	J4	0.000497	0.00106	1	09/10/2020 11:16	WG1540504
Toluene	U		0.00138	0.00532	1	09/10/2020 11:16	WG1540504
Ethylbenzene	U		0.000785	0.00266	1	09/10/2020 11:16	WG1540504
Total Xylenes	U		0.000937	0.00692	1	09/15/2020 05:17	WG1542884
(S) Toluene-d8	*105*			*75.0-131*		*09/10/2020 11:16*	WG1540504
(S) Toluene-d8	*97.8*			*75.0-131*		*09/15/2020 05:17*	WG1542884
(S) 4-Bromofluorobenzene	*99.4*			*67.0-138*		*09/10/2020 11:16*	WG1540504
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*09/15/2020 05:17*	WG1542884
(S) 1,2-Dichloroethane-d4	*78.0*			*70.0-130*		*09/10/2020 11:16*	WG1540504
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*09/15/2020 05:17*	WG1542884

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	6.05		1.66	4.13	1	09/14/2020 12:24	WG1542342
C28-C40 Oil Range	15.9		0.283	4.13	1	09/14/2020 12:24	WG1542342
(S) o-Terphenyl	*55.4*			*18.0-148*		*09/14/2020 12:24*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.6		1	09/15/2020 08:40	WG1541936

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	937		48.6	106	5	09/10/2020 03:51	WG1540140

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.106	1	09/11/2020 08:45	WG1541187
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-120*		*09/11/2020 08:45*	WG1541187

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	J4	0.000520	0.00111	1	09/10/2020 11:37	WG1540504
Toluene	U		0.00145	0.00557	1	09/10/2020 11:37	WG1540504
Ethylbenzene	U		0.000821	0.00278	1	09/10/2020 11:37	WG1540504
Total Xylenes	U		0.000980	0.00724	1	09/15/2020 05:36	WG1542884
(S) Toluene-d8	*102*			*75.0-131*		*09/10/2020 11:37*	WG1540504
(S) Toluene-d8	*98.4*			*75.0-131*		*09/15/2020 05:36*	WG1542884
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*		*09/10/2020 11:37*	WG1540504
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*09/15/2020 05:36*	WG1542884
(S) 1,2-Dichloroethane-d4	*80.6*			*70.0-130*		*09/10/2020 11:37*	WG1540504
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*09/15/2020 05:36*	WG1542884

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	1.90	J	1.70	4.23	1	09/14/2020 10:52	WG1542342
C28-C40 Oil Range	1.85	B J	0.290	4.23	1	09/14/2020 10:52	WG1542342
(S) o-Terphenyl	*78.4*			*18.0-148*		*09/14/2020 10:52*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.5		1	09/15/2020 08:30	WG1542195

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	100		11.4	24.8	1	09/10/2020 04:06	WG1540140

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	0.0277	B J	0.0269	0.124	1	09/11/2020 02:52	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*89.5*			*77.0-120*		*09/11/2020 02:52*	WG1541228

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	J4	0.000693	0.00148	1	09/10/2020 11:57	WG1540504
Toluene	U		0.00193	0.00742	1	09/10/2020 11:57	WG1540504
Ethylbenzene	U		0.00109	0.00371	1	09/10/2020 11:57	WG1540504
Total Xylenes	U		0.00131	0.00965	1	09/15/2020 05:54	WG1542884
(S) Toluene-d8	*102*			*75.0-131*		*09/10/2020 11:57*	WG1540504
(S) Toluene-d8	*102*			*75.0-131*		*09/15/2020 05:54*	WG1542884
(S) 4-Bromofluorobenzene	*97.7*			*67.0-138*		*09/10/2020 11:57*	WG1540504
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*09/15/2020 05:54*	WG1542884
(S) 1,2-Dichloroethane-d4	*79.6*			*70.0-130*		*09/10/2020 11:57*	WG1540504
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*09/15/2020 05:54*	WG1542884

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		2.00	4.97	1	09/14/2020 11:19	WG1542342
C28-C40 Oil Range	0.441	B J	0.340	4.97	1	09/14/2020 11:19	WG1542342
(S) o-Terphenyl	*62.4*			*18.0-148*		*09/14/2020 11:19*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.8		1	09/15/2020 08:30	WG1542195

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	955	J5	9.70	21.1	1	09/10/2020 04:21	WG1540140

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.105	1	09/11/2020 03:13	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*88.3*			*77.0-120*		*09/11/2020 03:13*	WG1541228

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	J4	0.000518	0.00111	1	09/10/2020 12:18	WG1540504
Toluene	U		0.00144	0.00555	1	09/10/2020 12:18	WG1540504
Ethylbenzene	U		0.000817	0.00277	1	09/10/2020 12:18	WG1540504
Total Xylenes	0.00114	J	0.000976	0.00721	1	09/15/2020 06:13	WG1542884
(S) Toluene-d8	*99.9*			*75.0-131*		*09/10/2020 12:18*	WG1540504
(S) Toluene-d8	*98.6*			*75.0-131*		*09/15/2020 06:13*	WG1542884
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*09/10/2020 12:18*	WG1540504
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/15/2020 06:13*	WG1542884
(S) 1,2-Dichloroethane-d4	*80.4*			*70.0-130*		*09/10/2020 12:18*	WG1540504
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*09/15/2020 06:13*	WG1542884

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	2.32	J	1.70	4.22	1	09/14/2020 11:20	WG1542342
C28-C40 Oil Range	1.28	B J	0.289	4.22	1	09/14/2020 11:20	WG1542342
(S) o-Terphenyl	*78.3*			*18.0-148*		*09/14/2020 11:20*	WG1542342

BH-204 (14-15)
Collected date/time: 09/02/20 00:00

SAMPLE RESULTS - 12

L1258582

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	09/15/2020 08:30	WG1542195

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	863		9.72	21.1	1	09/10/2020 05:20	WG1540140

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	0.0270	B J	0.0229	0.106	1	09/11/2020 03:41	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*86.9*			*77.0-120*		*09/11/2020 03:41*	WG1541228

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		0.000520	0.00111	1	09/10/2020 12:26	WG1540684
Toluene	U		0.00145	0.00556	1	09/10/2020 12:26	WG1540684
Ethylbenzene	U		0.000820	0.00278	1	09/10/2020 12:26	WG1540684
Total Xylenes	U		0.000979	0.00723	1	09/10/2020 12:26	WG1540684
(S) Toluene-d8	*102*			*75.0-131*		*09/10/2020 12:26*	WG1540684
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*09/10/2020 12:26*	WG1540684
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/10/2020 12:26*	WG1540684

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	2.45	J	1.70	4.22	1	09/14/2020 12:49	WG1542342
C28-C40 Oil Range	2.12	B J	0.289	4.22	1	09/14/2020 12:49	WG1542342
(S) o-Terphenyl	*64.2*			*18.0-148*		*09/14/2020 12:49*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.4		1	09/15/2020 08:30	WG1542195

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	481		9.85	21.4	1	09/10/2020 05:35	WG1540140

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	0.0333	B J	0.0232	0.107	1	09/11/2020 04:07	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*86.8*			*77.0-120*		*09/11/2020 04:07*	WG1541228

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		0.000533	0.00114	1	09/10/2020 13:17	WG1540684
Toluene	U		0.00148	0.00571	1	09/10/2020 13:17	WG1540684
Ethylbenzene	U		0.000841	0.00285	1	09/10/2020 13:17	WG1540684
Total Xylenes	U		0.00100	0.00742	1	09/10/2020 13:17	WG1540684
(S) Toluene-d8	*101*			*75.0-131*		*09/10/2020 13:17*	WG1540684
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*09/10/2020 13:17*	WG1540684
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*09/10/2020 13:17*	WG1540684

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	3.23	J	1.72	4.28	1	09/14/2020 11:33	WG1542342
C28-C40 Oil Range	1.48	B J	0.293	4.28	1	09/14/2020 11:33	WG1542342
(S) o-Terphenyl	*60.5*			*18.0-148*		*09/14/2020 11:33*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.8		1	09/15/2020 08:30	WG1542195

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	463		9.70	21.1	1	09/10/2020 05:50	WG1540140

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	0.0357	B J	0.0229	0.105	1	09/11/2020 04:28	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*87.4*			*77.0-120*		*09/11/2020 04:28*	WG1541228

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000518	0.00111	1	09/10/2020 13:36	WG1540684
Toluene	U		0.00144	0.00554	1	09/10/2020 13:36	WG1540684
Ethylbenzene	U		0.000817	0.00277	1	09/10/2020 13:36	WG1540684
Total Xylenes	U		0.000976	0.00721	1	09/10/2020 13:36	WG1540684
(S) Toluene-d8	*102*			*75.0-131*		*09/10/2020 13:36*	WG1540684
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*09/10/2020 13:36*	WG1540684
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/10/2020 13:36*	WG1540684

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	2.03	J	1.70	4.22	1	09/14/2020 11:46	WG1542342
C28-C40 Oil Range	0.683	B J	0.289	4.22	1	09/14/2020 11:46	WG1542342
(S) o-Terphenyl	*69.8*			*18.0-148*		*09/14/2020 11:46*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	09/15/2020 08:30	WG1542195

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	289		9.71	21.1	1	09/10/2020 06:35	WG1540140

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	0.0503	B J	0.0229	0.106	1	09/11/2020 04:49	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*86.6*			*77.0-120*		*09/11/2020 04:49*	WG1541228

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		0.000519	0.00111	1	09/10/2020 13:54	WG1540684
Toluene	U		0.00145	0.00556	1	09/10/2020 13:54	WG1540684
Ethylbenzene	U		0.000819	0.00278	1	09/10/2020 13:54	WG1540684
Total Xylenes	U		0.000978	0.00723	1	09/10/2020 13:54	WG1540684
(S) Toluene-d8	*102*			*75.0-131*		*09/10/2020 13:54*	WG1540684
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*09/10/2020 13:54*	WG1540684
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/10/2020 13:54*	WG1540684

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	22.7		1.70	4.22	1	09/14/2020 14:06	WG1542342
C28-C40 Oil Range	78.0		0.289	4.22	1	09/14/2020 14:06	WG1542342
(S) o-Terphenyl	*49.5*			*18.0-148*		*09/14/2020 14:06*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	09/15/2020 08:30	WG1542195

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	51.3		9.51	20.7	1	09/10/2020 06:50	WG1540140

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	0.0227	B J	0.0224	0.103	1	09/11/2020 05:09	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*88.8*			*77.0-120*		*09/11/2020 05:09*	WG1541228

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		0.000498	0.00107	1	09/10/2020 14:13	WG1540684
Toluene	U		0.00139	0.00533	1	09/10/2020 14:13	WG1540684
Ethylbenzene	U		0.000786	0.00267	1	09/10/2020 14:13	WG1540684
Total Xylenes	U		0.000939	0.00693	1	09/10/2020 14:13	WG1540684
(S) Toluene-d8	*102*			*75.0-131*		*09/10/2020 14:13*	WG1540684
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*09/10/2020 14:13*	WG1540684
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/10/2020 14:13*	WG1540684

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	3.19	J	1.66	4.13	1	09/14/2020 13:02	WG1542342
C28-C40 Oil Range	10.5		0.283	4.13	1	09/14/2020 13:02	WG1542342
(S) o-Terphenyl	*70.2*			*18.0-148*		*09/14/2020 13:02*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	09/15/2020 08:30	WG1542195

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	56.5		9.41	20.5	1	09/10/2020 07:05	WG1540140

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	0.0267	B J	0.0222	0.102	1	09/11/2020 05:30	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*89.1*			*77.0-120*		*09/11/2020 05:30*	WG1541228

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		0.000488	0.00105	1	09/10/2020 14:32	WG1540684
Toluene	U		0.00136	0.00523	1	09/10/2020 14:32	WG1540684
Ethylbenzene	U		0.000771	0.00261	1	09/10/2020 14:32	WG1540684
Total Xylenes	0.00111	J	0.000920	0.00680	1	09/10/2020 14:32	WG1540684
(S) Toluene-d8	*102*			*75.0-131*		*09/10/2020 14:32*	WG1540684
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/10/2020 14:32*	WG1540684
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/10/2020 14:32*	WG1540684

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	2.68	J	1.65	4.09	1	09/14/2020 11:59	WG1542342
C28-C40 Oil Range	3.60	B J	0.280	4.09	1	09/14/2020 11:59	WG1542342
(S) o-Terphenyl	*64.0*			*18.0-148*		*09/14/2020 11:59*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.0		1	09/15/2020 08:30	WG1542195

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	22.6		9.29	20.2	1	09/10/2020 07:20	WG1540140

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	0.0383	B J	0.0219	0.101	1	09/11/2020 05:54	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*88.1*			*77.0-120*		*09/11/2020 05:54*	WG1541228

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	0.000530	J	0.000476	0.00102	1	09/10/2020 14:51	WG1540684
Toluene	U		0.00133	0.00510	1	09/10/2020 14:51	WG1540684
Ethylbenzene	U		0.000752	0.00255	1	09/10/2020 14:51	WG1540684
Total Xylenes	0.00106	J	0.000898	0.00663	1	09/10/2020 14:51	WG1540684
(S) Toluene-d8	*103*			*75.0-131*		*09/10/2020 14:51*	WG1540684
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*09/10/2020 14:51*	WG1540684
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/10/2020 14:51*	WG1540684

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	4.10		1.63	4.04	1	09/14/2020 12:37	WG1542342
C28-C40 Oil Range	9.97		0.277	4.04	1	09/14/2020 12:37	WG1542342
(S) o-Terphenyl	*121*			*18.0-148*		*09/14/2020 12:37*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.7		1	09/15/2020 08:30	WG1542195

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	221		9.32	20.3	1	09/10/2020 07:35	WG1540140

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	0.0260	B J	0.0220	0.101	1	09/11/2020 06:28	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*88.1*			*77.0-120*		*09/11/2020 06:28*	WG1541228

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		0.000479	0.00103	1	09/10/2020 15:09	WG1540684
Toluene	U		0.00133	0.00513	1	09/10/2020 15:09	WG1540684
Ethylbenzene	U		0.000756	0.00257	1	09/10/2020 15:09	WG1540684
Total Xylenes	U		0.000903	0.00667	1	09/10/2020 15:09	WG1540684
(S) Toluene-d8	*102*			*75.0-131*		*09/10/2020 15:09*	WG1540684
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*09/10/2020 15:09*	WG1540684
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*09/10/2020 15:09*	WG1540684

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	7.51		1.63	4.05	1	09/14/2020 13:15	WG1542342
C28-C40 Oil Range	21.0		0.278	4.05	1	09/14/2020 13:15	WG1542342
(S) o-Terphenyl	*58.5*			*18.0-148*		*09/14/2020 13:15*	WG1542342

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.3		1	09/15/2020 07:42	WG1542196

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	453		9.55	20.8	1	09/10/2020 07:49	WG1540140

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	0.0244	B J	0.0225	0.104	1	09/11/2020 07:15	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*89.3*			*77.0-120*		*09/11/2020 07:15*	WG1541228

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U	J3	0.000503	0.00108	1	09/10/2020 15:28	WG1540684
Toluene	U	J3	0.00140	0.00539	1	09/10/2020 15:28	WG1540684
Ethylbenzene	U	J3	0.000794	0.00269	1	09/10/2020 15:28	WG1540684
Total Xylenes	U	J3	0.000948	0.00700	1	09/10/2020 15:28	WG1540684
(S) Toluene-d8	*101*			*75.0-131*		*09/10/2020 15:28*	WG1540684
(S) 4-Bromofluorobenzene	*110*			*67.0-138*		*09/10/2020 15:28*	WG1540684
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/10/2020 15:28*	WG1540684

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	2.14	J	1.67	4.15	1	09/14/2020 20:01	WG1542344
C28-C40 Oil Range	1.60	B J	0.285	4.15	1	09/14/2020 20:01	WG1542344
(S) o-Terphenyl	*73.7*			*18.0-148*		*09/14/2020 20:01*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	09/15/2020 07:42	WG1542196

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	580		9.84	21.4	1	09/10/2020 05:08	WG1540146

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		0.0232	0.107	1	09/11/2020 07:36	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*88.2*			*77.0-120*		*09/11/2020 07:36*	WG1541228

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		0.000532	0.00114	1	09/11/2020 16:18	WG1540685
Toluene	U		0.00148	0.00570	1	09/11/2020 16:18	WG1540685
Ethylbenzene	U		0.000840	0.00285	1	09/11/2020 16:18	WG1540685
Total Xylenes	U		0.00100	0.00741	1	09/11/2020 16:18	WG1540685
(S) Toluene-d8	*100*			*75.0-131*		*09/11/2020 16:18*	WG1540685
(S) 4-Bromofluorobenzene	*92.3*			*67.0-138*		*09/11/2020 16:18*	WG1540685
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*09/11/2020 16:18*	WG1540685

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		1.72	4.28	1	09/14/2020 20:14	WG1542344
C28-C40 Oil Range	0.450	B J	0.293	4.28	1	09/14/2020 20:14	WG1542344
(S) o-Terphenyl	*67.4*			*18.0-148*		*09/14/2020 20:14*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	09/15/2020 07:42	WG1542196

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	416		9.57	20.8	1	09/10/2020 05:27	WG1540146

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		0.0226	0.104	1	09/11/2020 07:59	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*88.6*			*77.0-120*		*09/11/2020 07:59*	WG1541228

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		0.000505	0.00108	1	09/11/2020 16:37	WG1540685
Toluene	U		0.00141	0.00541	1	09/11/2020 16:37	WG1540685
Ethylbenzene	U		0.000797	0.00270	1	09/11/2020 16:37	WG1540685
Total Xylenes	U		0.000952	0.00703	1	09/11/2020 16:37	WG1540685
(S) Toluene-d8	*102*			*75.0-131*		*09/11/2020 16:37*	WG1540685
(S) 4-Bromofluorobenzene	*93.9*			*67.0-138*		*09/11/2020 16:37*	WG1540685
(S) 1,2-Dichloroethane-d4	*99.5*			*70.0-130*		*09/11/2020 16:37*	WG1540685

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		1.68	4.16	1	09/14/2020 20:27	WG1542344
C28-C40 Oil Range	U		0.285	4.16	1	09/14/2020 20:27	WG1542344
(S) o-Terphenyl	*65.4*			*18.0-148*		*09/14/2020 20:27*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.0		1	09/15/2020 07:42	WG1542196

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	50.8		9.58	20.8	1	09/10/2020 05:37	WG1540146

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	0.0414	B J	0.0226	0.104	1	09/11/2020 08:20	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*88.8*			*77.0-120*		*09/11/2020 08:20*	WG1541228

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		0.000506	0.00108	1	09/11/2020 16:56	WG1540685
Toluene	U		0.00141	0.00541	1	09/11/2020 16:56	WG1540685
Ethylbenzene	U		0.000798	0.00271	1	09/11/2020 16:56	WG1540685
Total Xylenes	U		0.000953	0.00704	1	09/11/2020 16:56	WG1540685
(S) Toluene-d8	*98.8*			*75.0-131*		*09/11/2020 16:56*	WG1540685
(S) 4-Bromofluorobenzene	*90.6*			*67.0-138*		*09/11/2020 16:56*	WG1540685
(S) 1,2-Dichloroethane-d4	*98.4*			*70.0-130*		*09/11/2020 16:56*	WG1540685

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	J3	1.68	4.17	1	09/14/2020 20:41	WG1542344
C28-C40 Oil Range	0.368	B J	0.285	4.17	1	09/14/2020 20:41	WG1542344
(S) o-Terphenyl	*69.9*			*18.0-148*		*09/14/2020 20:41*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.3		1	09/15/2020 07:42	WG1542196

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	22.7		9.87	21.4	1	09/10/2020 05:47	WG1540146

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	0.0318	B J	0.0233	0.107	1	09/11/2020 08:41	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*88.6*			*77.0-120*		*09/11/2020 08:41*	WG1541228

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		0.000535	0.00114	1	09/11/2020 17:15	WG1540685
Toluene	U		0.00149	0.00572	1	09/11/2020 17:15	WG1540685
Ethylbenzene	U		0.000844	0.00286	1	09/11/2020 17:15	WG1540685
Total Xylenes	U		0.00101	0.00744	1	09/11/2020 17:15	WG1540685
(S) Toluene-d8	*101*			*75.0-131*		*09/11/2020 17:15*	WG1540685
(S) 4-Bromofluorobenzene	*93.2*			*67.0-138*		*09/11/2020 17:15*	WG1540685
(S) 1,2-Dichloroethane-d4	*99.8*			*70.0-130*		*09/11/2020 17:15*	WG1540685

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	4.18	J	1.73	4.29	1	09/14/2020 21:20	WG1542344
C28-C40 Oil Range	4.27	B J	0.294	4.29	1	09/14/2020 21:20	WG1542344
(S) o-Terphenyl	*78.0*			*18.0-148*		*09/14/2020 21:20*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	09/15/2020 07:42	WG1542196

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	136		9.44	20.5	1	09/10/2020 05:56	WG1540146

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	0.0226	B J	0.0223	0.103	1	09/11/2020 09:01	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*88.9*			*77.0-120*		*09/11/2020 09:01*	WG1541228

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		0.000492	0.00105	1	09/11/2020 17:34	WG1540685
Toluene	U		0.00137	0.00527	1	09/11/2020 17:34	WG1540685
Ethylbenzene	U		0.000776	0.00263	1	09/11/2020 17:34	WG1540685
Total Xylenes	U		0.000927	0.00685	1	09/11/2020 17:34	WG1540685
(S) Toluene-d8	*100*			*75.0-131*		*09/11/2020 17:34*	WG1540685
(S) 4-Bromofluorobenzene	*92.8*			*67.0-138*		*09/11/2020 17:34*	WG1540685
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*09/11/2020 17:34*	WG1540685

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	1.91	J	1.65	4.11	1	09/14/2020 23:43	WG1542344
C28-C40 Oil Range	7.07	B	0.281	4.11	1	09/14/2020 23:43	WG1542344
(S) o-Terphenyl	*73.7*			*18.0-148*		*09/14/2020 23:43*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	09/15/2020 07:42	WG1542196

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	121		9.72	21.1	1	09/10/2020 06:06	WG1540146

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.106	1	09/11/2020 09:22	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*89.0*			*77.0-120*		*09/11/2020 09:22*	WG1541228

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		0.000520	0.00111	1	09/11/2020 17:53	WG1540685
Toluene	U		0.00145	0.00556	1	09/11/2020 17:53	WG1540685
Ethylbenzene	U		0.000820	0.00278	1	09/11/2020 17:53	WG1540685
Total Xylenes	U		0.000979	0.00723	1	09/11/2020 17:53	WG1540685
(S) Toluene-d8	*99.4*			*75.0-131*		*09/11/2020 17:53*	WG1540685
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*		*09/11/2020 17:53*	WG1540685
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/11/2020 17:53*	WG1540685

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	1.91	J	1.70	4.22	1	09/14/2020 23:30	WG1542344
C28-C40 Oil Range	6.53	B	0.289	4.22	1	09/14/2020 23:30	WG1542344
(S) o-Terphenyl	*70.7*			*18.0-148*		*09/14/2020 23:30*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.3		1	09/15/2020 07:42	WG1542196

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	170		9.36	20.4	1	09/10/2020 06:15	WG1540146

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	0.0259	B J	0.0221	0.102	1	09/11/2020 09:43	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*77.0-120*		*09/11/2020 09:43*	WG1541228

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		0.000484	0.00104	1	09/11/2020 18:12	WG1540685
Toluene	U		0.00135	0.00518	1	09/11/2020 18:12	WG1540685
Ethylbenzene	U		0.000763	0.00259	1	09/11/2020 18:12	WG1540685
Total Xylenes	U		0.000911	0.00673	1	09/11/2020 18:12	WG1540685
(S) Toluene-d8	*105*			*75.0-131*		*09/11/2020 18:12*	WG1540685
(S) 4-Bromofluorobenzene	*93.8*			*67.0-138*		*09/11/2020 18:12*	WG1540685
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*09/11/2020 18:12*	WG1540685

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		1.64	4.07	1	09/14/2020 21:33	WG1542344
C28-C40 Oil Range	U		0.279	4.07	1	09/14/2020 21:33	WG1542344
(S) o-Terphenyl	*67.3*			*18.0-148*		*09/14/2020 21:33*	WG1542344

BH-207 (7-8)
Collected date/time: 09/02/20 00:00

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.5		1	09/15/2020 07:42	WG1542196

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	104		9.53	20.7	1	09/10/2020 06:44	WG1540146

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	0.0248	B J	0.0225	0.104	1	09/11/2020 10:03	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*88.6*			*77.0-120*		*09/11/2020 10:03*	WG1541228

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		0.000501	0.00107	1	09/11/2020 18:31	WG1540685
Toluene	U		0.00139	0.00536	1	09/11/2020 18:31	WG1540685
Ethylbenzene	U		0.000791	0.00268	1	09/11/2020 18:31	WG1540685
Total Xylenes	U		0.000944	0.00697	1	09/11/2020 18:31	WG1540685
(S) Toluene-d8	*101*			*75.0-131*		*09/11/2020 18:31*	WG1540685
(S) 4-Bromofluorobenzene	*91.2*			*67.0-138*		*09/11/2020 18:31*	WG1540685
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*09/11/2020 18:31*	WG1540685

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	3.27	J	1.67	4.15	1	09/14/2020 21:46	WG1542344
C28-C40 Oil Range	4.71	B	0.284	4.15	1	09/14/2020 21:46	WG1542344
(S) o-Terphenyl	*74.5*			*18.0-148*		*09/14/2020 21:46*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.9		1	09/15/2020 07:42	WG1542196

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	214		9.40	20.4	1	09/10/2020 06:53	WG1540146

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	0.0357	B J	0.0222	0.102	1	09/11/2020 10:24	WG1541228
(S) a,a,a-Trifluorotoluene(FID)	*88.6*			*77.0-120*		*09/11/2020 10:24*	WG1541228

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		0.000487	0.00104	1	09/11/2020 18:50	WG1540685
Toluene	U		0.00136	0.00522	1	09/11/2020 18:50	WG1540685
Ethylbenzene	U		0.000769	0.00261	1	09/11/2020 18:50	WG1540685
Total Xylenes	U		0.000918	0.00678	1	09/11/2020 18:50	WG1540685
(S) Toluene-d8	*100*			*75.0-131*		*09/11/2020 18:50*	WG1540685
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*		*09/11/2020 18:50*	WG1540685
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*		*09/11/2020 18:50*	WG1540685

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	4.09	1	09/15/2020 00:09	WG1542344
C28-C40 Oil Range	19.5	B	0.280	4.09	1	09/15/2020 00:09	WG1542344
(S) o-Terphenyl	*71.2*			*18.0-148*		*09/15/2020 00:09*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	09/15/2020 11:24	WG1542197

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	449		9.62	20.9	1	09/10/2020 07:03	WG1540146

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		0.0227	0.105	1	09/11/2020 11:36	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*		*09/11/2020 11:36*	WG1541325

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		0.000509	0.00109	1	09/11/2020 19:10	WG1540685
Toluene	U		0.00142	0.00545	1	09/11/2020 19:10	WG1540685
Ethylbenzene	U		0.000804	0.00273	1	09/11/2020 19:10	WG1540685
Total Xylenes	U		0.000960	0.00709	1	09/11/2020 19:10	WG1540685
(S) Toluene-d8	*102*			*75.0-131*		*09/11/2020 19:10*	WG1540685
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*		*09/11/2020 19:10*	WG1540685
(S) 1,2-Dichloroethane-d4	*94.7*			*70.0-130*		*09/11/2020 19:10*	WG1540685

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		1.68	4.18	1	09/14/2020 21:59	WG1542344
C28-C40 Oil Range	1.79	B J	0.286	4.18	1	09/14/2020 21:59	WG1542344
(S) o-Terphenyl	*75.0*			*18.0-148*		*09/14/2020 21:59*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	09/15/2020 11:24	WG1542197

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	287		9.64	21.0	1	09/10/2020 07:12	WG1540146

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		0.0230	0.106	1.01	09/11/2020 11:56	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*09/11/2020 11:56*	WG1541325

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		0.000512	0.00110	1	09/11/2020 19:29	WG1540685
Toluene	U		0.00143	0.00548	1	09/11/2020 19:29	WG1540685
Ethylbenzene	U		0.000808	0.00274	1	09/11/2020 19:29	WG1540685
Total Xylenes	U		0.000965	0.00713	1	09/11/2020 19:29	WG1540685
(S) Toluene-d8	*100*			*75.0-131*		*09/11/2020 19:29*	WG1540685
(S) 4-Bromofluorobenzene	*91.5*			*67.0-138*		*09/11/2020 19:29*	WG1540685
(S) 1,2-Dichloroethane-d4	*99.9*			*70.0-130*		*09/11/2020 19:29*	WG1540685

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	4.19	1	09/14/2020 22:12	WG1542344
C28-C40 Oil Range	U		0.287	4.19	1	09/14/2020 22:12	WG1542344
(S) o-Terphenyl	*68.3*			*18.0-148*		*09/14/2020 22:12*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.5		1	09/15/2020 11:24	WG1542197

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	128		9.73	21.2	1	09/10/2020 07:22	WG1540146

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		0.0230	0.106	1	09/11/2020 12:17	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-120*		*09/11/2020 12:17*	WG1541325

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		0.000521	0.00112	1	09/11/2020 19:48	WG1540685
Toluene	U		0.00145	0.00558	1	09/11/2020 19:48	WG1540685
Ethylbenzene	U		0.000822	0.00279	1	09/11/2020 19:48	WG1540685
Total Xylenes	U		0.000982	0.00725	1	09/11/2020 19:48	WG1540685
(S) Toluene-d8	*102*			*75.0-131*		*09/11/2020 19:48*	WG1540685
(S) 4-Bromofluorobenzene	*91.5*			*67.0-138*		*09/11/2020 19:48*	WG1540685
(S) 1,2-Dichloroethane-d4	*96.9*			*70.0-130*		*09/11/2020 19:48*	WG1540685

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		1.70	4.23	1	09/14/2020 22:25	WG1542344
C28-C40 Oil Range	U		0.290	4.23	1	09/14/2020 22:25	WG1542344
(S) o-Terphenyl	*73.6*			*18.0-148*		*09/14/2020 22:25*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.4		1	09/15/2020 11:24	WG1542197

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	79.2		9.35	20.3	1	09/10/2020 07:50	WG1540146

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	09/11/2020 12:38	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-120*		*09/11/2020 12:38*	WG1541325

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	09/11/2020 20:07	WG1540685
Toluene	U		0.00134	0.00517	1	09/11/2020 20:07	WG1540685
Ethylbenzene	U		0.000762	0.00258	1	09/11/2020 20:07	WG1540685
Total Xylenes	U		0.000910	0.00672	1	09/11/2020 20:07	WG1540685
(S) Toluene-d8	*101*			*75.0-131*		*09/11/2020 20:07*	WG1540685
(S) 4-Bromofluorobenzene	*91.4*			*67.0-138*		*09/11/2020 20:07*	WG1540685
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*09/11/2020 20:07*	WG1540685

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	3.23	J	1.64	4.07	1	09/15/2020 00:35	WG1542344
C28-C40 Oil Range	12.2	B	0.279	4.07	1	09/15/2020 00:35	WG1542344
(S) o-Terphenyl	*73.0*			*18.0-148*		*09/15/2020 00:35*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.1		1	09/15/2020 11:24	WG1542197

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	674		9.47	20.6	1	09/10/2020 08:00	WG1540146

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	09/11/2020 12:59	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*		*09/11/2020 12:59*	WG1541325

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000495	0.00106	1	09/11/2020 20:26	WG1540685
Toluene	U		0.00138	0.00530	1	09/11/2020 20:26	WG1540685
Ethylbenzene	U		0.000781	0.00265	1	09/11/2020 20:26	WG1540685
Total Xylenes	U		0.000932	0.00689	1	09/11/2020 20:26	WG1540685
(S) Toluene-d8	*102*			*75.0-131*		*09/11/2020 20:26*	WG1540685
(S) 4-Bromofluorobenzene	*91.9*			*67.0-138*		*09/11/2020 20:26*	WG1540685
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*09/11/2020 20:26*	WG1540685

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	2.35	J	1.66	4.12	1	09/15/2020 00:22	WG1542344
C28-C40 Oil Range	7.98	B	0.282	4.12	1	09/15/2020 00:22	WG1542344
(S) o-Terphenyl	*75.5*			*18.0-148*		*09/15/2020 00:22*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.7		1	09/15/2020 11:24	WG1542197

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	238		9.42	20.5	1	09/10/2020 08:09	WG1540146

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		0.0222	0.102	1	09/11/2020 13:19	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*		*09/11/2020 13:19*	WG1541325

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		0.000489	0.00105	1	09/11/2020 20:45	WG1540685
Toluene	U		0.00136	0.00524	1	09/11/2020 20:45	WG1540685
Ethylbenzene	U		0.000772	0.00262	1	09/11/2020 20:45	WG1540685
Total Xylenes	U		0.000922	0.00681	1	09/11/2020 20:45	WG1540685
(S) Toluene-d8	*101*			*75.0-131*		*09/11/2020 20:45*	WG1540685
(S) 4-Bromofluorobenzene	*92.5*			*67.0-138*		*09/11/2020 20:45*	WG1540685
(S) 1,2-Dichloroethane-d4	*85.8*			*70.0-130*		*09/11/2020 20:45*	WG1540685

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		1.65	4.10	1	09/14/2020 22:38	WG1542344
C28-C40 Oil Range	U		0.281	4.10	1	09/14/2020 22:38	WG1542344
(S) o-Terphenyl	*71.5*			*18.0-148*		*09/14/2020 22:38*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.1		1	09/15/2020 11:24	WG1542197

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	45.7		9.78	21.3	1	09/10/2020 08:38	WG1540146

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0231	0.106	1	09/11/2020 13:40	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*09/11/2020 13:40*	WG1541325

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	0.000816	J	0.000526	0.00113	1	09/15/2020 17:25	WG1543443
Toluene	U		0.00146	0.00563	1	09/15/2020 17:25	WG1543443
Ethylbenzene	0.00129	J	0.000830	0.00281	1	09/15/2020 17:25	WG1543443
Total Xylenes	0.00315	J	0.000991	0.00732	1	09/15/2020 17:25	WG1543443
(S) Toluene-d8	*99.1*			*75.0-131*		*09/15/2020 17:25*	WG1543443
(S) 4-Bromofluorobenzene	*94.4*			*67.0-138*		*09/15/2020 17:25*	WG1543443
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/15/2020 17:25*	WG1543443

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		1.71	4.25	1	09/14/2020 22:51	WG1542344
C28-C40 Oil Range	U		0.291	4.25	1	09/14/2020 22:51	WG1542344
(S) o-Terphenyl	*74.8*			*18.0-148*		*09/14/2020 22:51*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.3		1	09/15/2020 11:24	WG1542197

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	41.0		9.36	20.3	1	09/10/2020 08:47	WG1540146

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	09/11/2020 14:01	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-120*		*09/11/2020 14:01*	WG1541325

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	09/12/2020 15:09	WG1541911
Toluene	0.00569		0.00134	0.00517	1	09/15/2020 03:44	WG1542933
Ethylbenzene	U		0.000762	0.00259	1	09/15/2020 03:44	WG1542933
Total Xylenes	0.00152	J	0.000910	0.00672	1	09/15/2020 03:44	WG1542933
(S) Toluene-d8	*111*			*75.0-131*		*09/12/2020 15:09*	WG1541911
(S) Toluene-d8	*100*			*75.0-131*		*09/15/2020 03:44*	WG1542933
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*09/12/2020 15:09*	WG1541911
(S) 4-Bromofluorobenzene	*93.5*			*67.0-138*		*09/15/2020 03:44*	WG1542933
(S) 1,2-Dichloroethane-d4	*88.3*			*70.0-130*		*09/12/2020 15:09*	WG1541911
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/15/2020 03:44*	WG1542933

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	7.29		1.64	4.07	1	09/14/2020 23:56	WG1542344
C28-C40 Oil Range	16.9	B	0.279	4.07	1	09/14/2020 23:56	WG1542344
(S) o-Terphenyl	*78.0*			*18.0-148*		*09/14/2020 23:56*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	09/15/2020 11:24	WG1542197

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	513		9.41	20.5	1	09/10/2020 08:57	WG1540146

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		0.0222	0.102	1	09/11/2020 14:22	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-120*		*09/11/2020 14:22*	WG1541325

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		0.000488	0.00105	1	09/12/2020 15:29	WG1541911
Toluene	U		0.00136	0.00523	1	09/12/2020 15:29	WG1541911
Ethylbenzene	U		0.000771	0.00261	1	09/12/2020 15:29	WG1541911
Total Xylenes	0.00202	J	0.000920	0.00680	1	09/15/2020 02:28	WG1542933
(S) Toluene-d8	*110*			*75.0-131*		*09/12/2020 15:29*	WG1541911
(S) Toluene-d8	*100*			*75.0-131*		*09/15/2020 02:28*	WG1542933
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*09/12/2020 15:29*	WG1541911
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*		*09/15/2020 02:28*	WG1542933
(S) 1,2-Dichloroethane-d4	*90.4*			*70.0-130*		*09/12/2020 15:29*	WG1541911
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*09/15/2020 02:28*	WG1542933

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	1.77	J	1.65	4.09	1	09/14/2020 23:04	WG1542344
C28-C40 Oil Range	6.37	B	0.280	4.09	1	09/14/2020 23:04	WG1542344
(S) o-Terphenyl	*72.6*			*18.0-148*		*09/14/2020 23:04*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.2		1	09/15/2020 11:24	WG1542197

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	459		9.47	20.6	1	09/10/2020 09:06	WG1540146

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	09/11/2020 14:42	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-120*		*09/11/2020 14:42*	WG1541325

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		0.000494	0.00106	1	09/15/2020 17:44	WG1543443
Toluene	U		0.00138	0.00529	1	09/15/2020 17:44	WG1543443
Ethylbenzene	U		0.000780	0.00265	1	09/15/2020 17:44	WG1543443
Total Xylenes	0.00212	J	0.000931	0.00688	1	09/15/2020 17:44	WG1543443
(S) Toluene-d8	*99.2*			*75.0-131*		*09/15/2020 17:44*	WG1543443
(S) 4-Bromofluorobenzene	*93.1*			*67.0-138*		*09/15/2020 17:44*	WG1543443
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*09/15/2020 17:44*	WG1543443

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		1.66	4.12	1	09/14/2020 23:17	WG1542344
C28-C40 Oil Range	1.36	B J	0.282	4.12	1	09/14/2020 23:17	WG1542344
(S) o-Terphenyl	*69.9*			*18.0-148*		*09/14/2020 23:17*	WG1542344

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.5		1	09/15/2020 13:28	WG1542198

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	296		9.44	20.5	1	09/10/2020 09:16	WG1540146

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	09/11/2020 15:03	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*108*			*77.0-120*		*09/11/2020 15:03*	WG1541325

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		0.000491	0.00105	1	09/10/2020 17:15	WG1540981
Toluene	U		0.00137	0.00526	1	09/10/2020 17:15	WG1540981
Ethylbenzene	U		0.000775	0.00263	1	09/10/2020 17:15	WG1540981
Total Xylenes	U		0.000925	0.00683	1	09/10/2020 17:15	WG1540981
(S) Toluene-d8	*99.6*			*75.0-131*		*09/10/2020 17:15*	WG1540981
(S) 4-Bromofluorobenzene	*94.2*			*67.0-138*		*09/10/2020 17:15*	WG1540981
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/10/2020 17:15*	WG1540981

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		1.65	4.10	1	09/15/2020 21:33	WG1542522
C28-C40 Oil Range	0.498	J	0.281	4.10	1	09/15/2020 21:33	WG1542522
(S) o-Terphenyl	*80.4*			*18.0-148*		*09/15/2020 21:33*	WG1542522

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.8		1	09/15/2020 13:28	WG1542198

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	112		9.41	20.5	1	09/10/2020 20:46	WG1540149

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	0.0584	J	0.0222	0.102	1	09/11/2020 15:24	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*09/11/2020 15:24*	WG1541325

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		0.000488	0.00105	1	09/10/2020 17:34	WG1540981
Toluene	U		0.00136	0.00523	1	09/10/2020 17:34	WG1540981
Ethylbenzene	U		0.000771	0.00261	1	09/10/2020 17:34	WG1540981
Total Xylenes	U		0.000920	0.00680	1	09/10/2020 17:34	WG1540981
(S) Toluene-d8	*101*			*75.0-131*		*09/10/2020 17:34*	WG1540981
(S) 4-Bromofluorobenzene	*95.1*			*67.0-138*		*09/10/2020 17:34*	WG1540981
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/10/2020 17:34*	WG1540981

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	10.4		1.65	4.09	1	09/15/2020 23:51	WG1542522
C28-C40 Oil Range	38.8		0.280	4.09	1	09/15/2020 23:51	WG1542522
(S) o-Terphenyl	*80.5*			*18.0-148*		*09/15/2020 23:51*	WG1542522

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	09/15/2020 13:28	WG1542198

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	457		9.45	20.5	1	09/10/2020 20:55	WG1540149

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	09/11/2020 15:45	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*09/11/2020 15:45*	WG1541325

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		0.000492	0.00105	1	09/10/2020 17:53	WG1540981
Toluene	U		0.00137	0.00527	1	09/10/2020 17:53	WG1540981
Ethylbenzene	U		0.000777	0.00264	1	09/10/2020 17:53	WG1540981
Total Xylenes	U		0.000928	0.00685	1	09/10/2020 17:53	WG1540981
(S) Toluene-d8	*101*			*75.0-131*		*09/10/2020 17:53*	WG1540981
(S) 4-Bromofluorobenzene	*92.4*			*67.0-138*		*09/10/2020 17:53*	WG1540981
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*09/10/2020 17:53*	WG1540981

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	3.22	J	1.65	4.11	1	09/15/2020 21:46	WG1542522
C28-C40 Oil Range	5.43		0.281	4.11	1	09/15/2020 21:46	WG1542522
(S) o-Terphenyl	*89.2*			*18.0-148*		*09/15/2020 21:46*	WG1542522

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	09/15/2020 13:28	WG1542198

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.61	20.9	1	09/10/2020 21:05	WG1540149

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		0.0227	0.105	1	09/11/2020 16:06	WG1541325
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*09/11/2020 16:06*	WG1541325

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		0.000509	0.00109	1	09/10/2020 18:12	WG1540981
Toluene	U		0.00142	0.00545	1	09/10/2020 18:12	WG1540981
Ethylbenzene	U		0.000804	0.00273	1	09/10/2020 18:12	WG1540981
Total Xylenes	U		0.000959	0.00709	1	09/10/2020 18:12	WG1540981
(S) Toluene-d8	*103*			*75.0-131*		*09/10/2020 18:12*	WG1540981
(S) 4-Bromofluorobenzene	*94.6*			*67.0-138*		*09/10/2020 18:12*	WG1540981
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*09/10/2020 18:12*	WG1540981

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		1.68	4.18	1	09/15/2020 21:58	WG1542522
C28-C40 Oil Range	0.363	J	0.286	4.18	1	09/15/2020 21:58	WG1542522
(S) o-Terphenyl	*81.3*			*18.0-148*		*09/15/2020 21:58*	WG1542522

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.2		1	09/15/2020 13:28	WG1542198

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	15.7	J	9.28	20.2	1	09/10/2020 21:14	WG1540149

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		0.0219	0.101	1	09/11/2020 14:34	WG1541470
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*77.0-120*		*09/11/2020 14:34*	WG1541470

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		0.000475	0.00102	1	09/10/2020 18:31	WG1540981
Toluene	U		0.00132	0.00508	1	09/10/2020 18:31	WG1540981
Ethylbenzene	U		0.000749	0.00254	1	09/10/2020 18:31	WG1540981
Total Xylenes	U		0.000895	0.00661	1	09/10/2020 18:31	WG1540981
(S) Toluene-d8	*105*			*75.0-131*		*09/10/2020 18:31*	WG1540981
(S) 4-Bromofluorobenzene	*96.1*			*67.0-138*		*09/10/2020 18:31*	WG1540981
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*09/10/2020 18:31*	WG1540981

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		1.62	4.03	1	09/15/2020 22:11	WG1542522
C28-C40 Oil Range	1.28	J	0.276	4.03	1	09/15/2020 22:11	WG1542522
(S) o-Terphenyl	*84.6*			*18.0-148*		*09/15/2020 22:11*	WG1542522

Method Blank (MB)

(MB) R3570991-1 09/15/20 08:40

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

L1258582-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1258582-02 09/15/20 08:40 • (DUP) R3570991-3 09/15/20 08:40

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	97.0	97.0	1	0.0787		10

Laboratory Control Sample (LCS)

(LCS) R3570991-2 09/15/20 08:40

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) R3570988-1 09/15/20 08:30

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

L1258582-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1258582-10 09/15/20 08:30 • (DUP) R3570988-3 09/15/20 08:30

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	80.5	80.4	1	0.193		10

Laboratory Control Sample (LCS)

(LCS) R3570988-2 09/15/20 08:30

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	49.9	99.9	85.0-115	

Method Blank (MB)

(MB) R3570984-1 09/15/20 07:42

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

L1258582-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1258582-24 09/15/20 07:42 • (DUP) R3570984-3 09/15/20 07:42

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	93.3	93.2	1	0.0879		10

Laboratory Control Sample (LCS)

(LCS) R3570984-2 09/15/20 07:42

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	99.9	85.0-115	

Method Blank (MB)

(MB) R3571028-1 09/15/20 11:24

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

L1258582-35 Original Sample (OS) • Duplicate (DUP)

(OS) L1258582-35 09/15/20 11:24 • (DUP) R3571028-3 09/15/20 11:24

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	97.7	97.7	1	0.0466		10

Laboratory Control Sample (LCS)

(LCS) R3571028-2 09/15/20 11:24

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) R3571041-1 09/15/20 13:28

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

L1258620-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1258620-01 09/15/20 13:28 • (DUP) R3571041-3 09/15/20 13:28

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	77.9	77.7	1	0.221		10

Laboratory Control Sample (LCS)

(LCS) R3571041-2 09/15/20 13:28

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) R3568893-1 09/10/20 00:22

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

L1258582-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1258582-02 09/10/20 01:22 • (DUP) R3568893-3 09/10/20 01:37

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	775	755	1	2.52		20

L1258582-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1258582-20 09/10/20 07:49 • (DUP) R3568893-6 09/10/20 08:04

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	453	456	1	0.779		20

Laboratory Control Sample (LCS)

(LCS) R3568893-2 09/10/20 00:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	197	98.6	90.0-110	

L1258582-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1258582-11 09/10/20 04:21 • (MS) R3568893-4 09/10/20 04:36 • (MSD) R3568893-5 09/10/20 04:51

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 %
Chloride	527	955	1590	1610	120	124	1	80.0-120	E	E J5	1.43	20

Method Blank (MB)

(MB) R3568876-1 09/10/20 04:40

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

L1258582-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1258582-21 09/10/20 05:08 • (DUP) R3568876-3 09/10/20 05:18

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	580	582	1	0.288		20

L1258582-40 Original Sample (OS) • Duplicate (DUP)

(OS) L1258582-40 09/10/20 09:16 • (DUP) R3568876-6 09/10/20 09:25

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	296	300	1	1.13		20

Laboratory Control Sample (LCS)

(LCS) R3568876-2 09/10/20 04:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	213	106	90.0-110	

L1258582-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1258582-32 09/10/20 07:22 • (MS) R3568876-4 09/10/20 07:31 • (MSD) R3568876-5 09/10/20 07:41

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 %
Chloride	529	128	666	675	102	103	1	80.0-120			1.23	20

Method Blank (MB)

(MB) R3569331-1 09/10/20 18:17

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

L1258570-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1258570-21 09/10/20 18:52 • (DUP) R3569331-3 09/10/20 19:01

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	85.2	105	1	20.9	J3	20

L1258795-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1258795-07 09/10/20 22:40 • (DUP) R3569331-6 09/10/20 22:50

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) R3569331-2 09/10/20 18:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	212	106	90.0-110	

L1258570-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1258570-23 09/10/20 19:20 • (MS) R3569331-4 09/10/20 19:30 • (MSD) R3569331-5 09/10/20 19:39

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 %
Chloride	531	14.3	546	536	100	98.2	1	80.0-120			1.87	20

Method Blank (MB)

(MB) R3570434-2 09/11/20 00:07

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)	*101*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3570434-1 09/10/20 23:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.68	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*77.0-120*	

L1258570-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1258570-28 09/11/20 02:13 • (MS) R3570434-3 09/11/20 09:07 • (MSD) R3570434-4 09/11/20 09:41

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 %
TPH (GC/FID) Low Fraction	5.66	U	2.35	2.17	41.5	38.3	1	10.0-151			7.82	28
(S) a,a,a-Trifluorotoluene(FID)					*100*	*99.4*		*77.0-120*				

Method Blank (MB)

(MB) R3570721-2 09/11/20 01:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0247	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*92.2*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3570721-1 09/11/20 01:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.57	101	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

Method Blank (MB)

(MB) R3569479-3 09/11/20 09:46

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)	*109*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3569479-2 09/11/20 09:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.94	108	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*102*	*77.0-120*	

L1259071-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1259071-01 09/11/20 16:26 • (MS) R3569479-6 09/11/20 18:52 • (MSD) R3569479-7 09/11/20 19:12

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	U	4.78	4.21	86.9	76.5	1	10.0-151			12.7	28
(S) a,a,a-Trifluorotoluene(FID)					*95.4*	*95.9*		*77.0-120*				

Method Blank (MB)

(MB) R3569747-2 09/11/20 12:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0317	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*95.8*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3569747-1 09/11/20 11:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.00	109	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

Method Blank (MB)

(MB) R3570225-3 09/10/20 04:16

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
(S) Toluene-d8	*99.4*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*81.7*			*70.0-130*

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

(LCS) R3570225-1 09/10/20 02:54 • (LCSD) R3570225-2 09/10/20 03:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.166	0.168	133	134	70.0-123	J4	J4	1.20	20
Ethylbenzene	0.125	0.148	0.149	118	119	74.0-126			0.673	20
Toluene	0.125	0.142	0.141	114	113	75.0-121			0.707	20
(S) Toluene-d8				*96.5*	*96.7*	*75.0-131*				
(S) 4-Bromofluorobenzene				*104*	*107*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*91.8*	*94.4*	*70.0-130*				

L1258350-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1258350-02 09/10/20 05:52 • (MS) R3570225-4 09/10/20 12:38 • (MSD) R3570225-5 09/10/20 12:59

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	0.185	U	0.209	0.222	113	120	1	10.0-149			6.23	37
Ethylbenzene	0.185	U	0.182	0.204	98.4	110	1	10.0-160			11.6	38
Toluene	0.185	U	0.186	0.194	101	105	1	10.0-156			3.92	38
(S) Toluene-d8					*99.9*	*98.6*		*75.0-131*				
(S) 4-Bromofluorobenzene					*99.7*	*103*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*87.1*	*87.0*		*70.0-130*				

Method Blank (MB)

(MB) R3569317-3 09/10/20 11:10

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	*104*			*75.0-131*
(S) 4-Bromofluorobenzene	*108*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

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

(LCS) R3569317-1 09/10/20 09:55 • (LCSD) R3569317-2 09/10/20 10:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.147	0.147	118	118	70.0-123			0.000	20
Ethylbenzene	0.125	0.130	0.132	104	106	74.0-126			1.53	20
Toluene	0.125	0.137	0.137	110	110	75.0-121			0.000	20
Xylenes, Total	0.375	0.425	0.429	113	114	72.0-127			0.937	20
(S) Toluene-d8				*103*	*102*	*75.0-131*				
(S) 4-Bromofluorobenzene				*104*	*108*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*106*	*107*	*70.0-130*				

L1258582-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1258582-20 09/10/20 15:28 • (MS) R3569317-4 09/10/20 18:54 • (MSD) R3569317-5 09/10/20 19:13

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	0.135	0.0681	101	51.0	1	10.0-149		J3	65.7	37
Ethylbenzene	0.134	U	0.128	0.0609	96.0	45.6	1	10.0-160		J3	71.2	38
Toluene	0.134	U	0.124	0.0591	92.7	44.3	1	10.0-156		J3	70.7	38
Xylenes, Total	0.401	U	0.416	0.210	104	52.4	1	10.0-160		J3	65.7	38
(S) Toluene-d8					*100*	*98.9*		*75.0-131*				
(S) 4-Bromofluorobenzene					*110*	*106*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*108*	*110*		*70.0-130*				

Method Blank (MB)

(MB) R3569516-2 09/11/20 10:38

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	*99.6*			*75.0-131*
(S) 4-Bromofluorobenzene	*90.3*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.2*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3569516-1 09/11/20 09:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.113	90.4	70.0-123	
Ethylbenzene	0.125	0.115	92.0	74.0-126	
Toluene	0.125	0.110	88.0	75.0-121	
Xylenes, Total	0.375	0.344	91.7	72.0-127	
(S) Toluene-d8			*97.8*	*75.0-131*	
(S) 4-Bromofluorobenzene			*94.8*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*105*	*70.0-130*	

Method Blank (MB)

(MB) R3569335-3 09/10/20 10:33

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	*99.2*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.7*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

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

(LCS) R3569335-1 09/10/20 09:17 • (LCSD) R3569335-2 09/10/20 09:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.116	0.113	92.8	90.4	70.0-123			2.62	20
Ethylbenzene	0.125	0.116	0.118	92.8	94.4	74.0-126			1.71	20
Toluene	0.125	0.114	0.111	91.2	88.8	75.0-121			2.67	20
Xylenes, Total	0.375	0.348	0.348	92.8	92.8	72.0-127			0.000	20
(S) Toluene-d8				*97.1*	*98.4*	*75.0-131*				
(S) 4-Bromofluorobenzene				*94.7*	*94.8*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*108*	*106*	*70.0-130*				

Method Blank (MB)

(MB) R3570251-3 09/12/20 11:11

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
(S) Toluene-d8	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*103*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*93.8*			*70.0-130*

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

(LCS) R3570251-1 09/12/20 09:51 • (LCSD) R3570251-2 09/12/20 10:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.119	0.133	95.2	106	70.0-123			11.1	20
Ethylbenzene	0.125	0.130	0.134	104	107	74.0-126			3.03	20
Toluene	0.125	0.124	0.134	99.2	107	75.0-121			7.75	20
(S) Toluene-d8				*106*	*108*	*75.0-131*				
(S) 4-Bromofluorobenzene				*102*	*107*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*95.6*	*101*	*70.0-130*				

L1258765-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1258765-04 09/12/20 13:48 • (MS) R3570251-4 09/12/20 19:28 • (MSD) R3570251-5 09/12/20 19:48

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	1.11	U	0.815	0.824	73.6	74.3	8	10.0-149			1.00	37
Ethylbenzene	1.11	36.5	33.9	33.7	0.000	0.000	8	10.0-160	E V	E V	0.810	38
Toluene	1.11	2.56	3.06	3.16	45.7	54.3	8	10.0-156			3.08	38
(S) Toluene-d8					*103*	*104*		*75.0-131*				
(S) 4-Bromofluorobenzene					*97.8*	*101*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*95.8*	*95.8*		*70.0-130*				

Method Blank (MB)

(MB) R3570421-2 09/15/20 01:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*99.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*110*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

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

(LCS) R3570421-1 09/15/20 00:17 • (LCSD) R3570421-3 09/15/20 07:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Xylenes, Total	0.375	0.390	0.391	104	104	72.0-127			0.256	20
(S) Toluene-d8				*96.8*	*96.8*	*75.0-131*				
(S) 4-Bromofluorobenzene				*102*	*104*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*113*	*112*	*70.0-130*				

Method Blank (MB)

(MB) R3570487-3 09/14/20 23:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*98.8*			*75.0-131*
(S) 4-Bromofluorobenzene	*91.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

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

(LCS) R3570487-1 09/14/20 22:15 • (LCSD) R3570487-2 09/14/20 22:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.125	0.114	0.117	91.2	93.6	74.0-126			2.60	20
Toluene	0.125	0.113	0.115	90.4	92.0	75.0-121			1.75	20
Xylenes, Total	0.375	0.339	0.321	90.4	85.6	72.0-127			5.45	20
(S) Toluene-d8				*98.4*	*96.9*	*75.0-131*				
(S) 4-Bromofluorobenzene				*91.8*	*95.0*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*109*	*110*	*70.0-130*				

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

Method Blank (MB)

(MB) R3570855-2 09/15/20 08:33

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	*99.7*			*75.0-131*
(S) 4-Bromofluorobenzene	*91.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3570855-1 09/15/20 07:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.116	92.8	70.0-123	
Ethylbenzene	0.125	0.115	92.0	74.0-126	
Toluene	0.125	0.110	88.0	75.0-121	
Xylenes, Total	0.375	0.335	89.3	72.0-127	
(S) Toluene-d8			*96.6*	*75.0-131*	
(S) 4-Bromofluorobenzene			*96.4*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*106*	*70.0-130*	

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

Method Blank (MB)

(MB) R3570080-1 09/14/20 07:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.515	J	0.274	4.00
(S) o-Terphenyl	*75.5*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3570080-2 09/14/20 07:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	39.1	78.2	50.0-150	
(S) o-Terphenyl			*60.2*	*18.0-148*	

L1258582-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1258582-01 09/14/20 13:28 • (MS) R3570080-3 09/14/20 13:40 • (MSD) R3570080-4 09/14/20 13:53

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.8	65.1	85.1	121	39.5	111	1	50.0-150	J6	J3	35.1	20
(S) o-Terphenyl					*42.4*	*54.7*		*18.0-148*				

Method Blank (MB)

(MB) R3570379-1 09/14/20 19:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	1.96	J	0.274	4.00
(S) o-Terphenyl	*82.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3570379-2 09/14/20 19:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	41.3	82.6	50.0-150	
(S) o-Terphenyl			*58.1*	*18.0-148*	

L1258582-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1258582-23 09/14/20 20:41 • (MS) R3570379-3 09/14/20 20:54 • (MSD) R3570379-4 09/14/20 21:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.7	U	41.4	53.5	83.4	108	1	50.0-150		J3	25.4	20
(S) o-Terphenyl					*79.7*	*73.0*		*18.0-148*				

Method Blank (MB)

(MB) R3570836-1 09/15/20 21:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*96.5*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3570836-2 09/15/20 21:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	45.0	90.0	50.0-150	
(S) o-Terphenyl			*106*	*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.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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	LAO00356
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

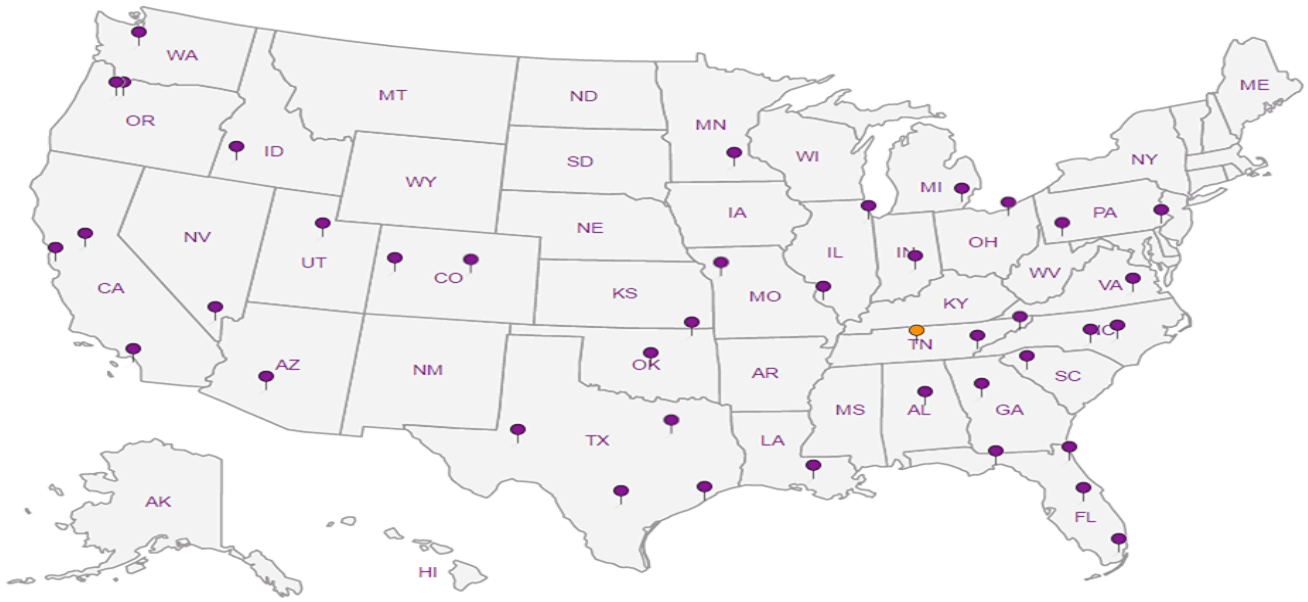
Third Party Federal Accreditations

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

B077

Page : 1 of 5

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

L1258582

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 3308-007	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	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	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-01	BH-20-3 (1-2)	9/2/2020			X			X		1	N	X		X												X						
-02	BH-20-3 (3-4)	9/2/2020			X			X		1	N	X		X												X						
-03	BH-20-3 (5-6)	9/2/2020			X			X		1	N	X		X												X						
-04	BH-20-3 (7-8)	9/2/2020			X			X		1	N	X		X												X						
-05	BH-20-3 (9-10)	9/2/2020			X			X		1	N	X		X												X						
-06	BH-20-3 (14-15)	9/2/2020			X			X		1	N	X		X												X						
-07	BH-20-4 (1-2)	9/2/2020			X			X		1	N	X		X												X						
-08	BH-20-4 (3-4)	9/2/2020			X			X		1	N	X		X												X						
-09	BH-20-4 (5-6)	9/2/2020			X			X		1	N	X		X												X						
-10	BH-20-4 (7-8)	9/2/2020			X			X		1	N	X		X												X						

Relinquished by:	Date: 9-3-20	Time: 15:30	Received by: Date: 9-3-20 Time: 15:30
Relinquished by:	Date: 9.3.20	Time: 16:30	Received by: Date: 9.3.20 Time: 1630
Relinquished by:	Date:	Time:	Received by: Date: 9-4-20 Time: 930

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

L1258582

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 3308-007	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	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	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
		YEAR: 2020																														
-11	BH-20-4 (9-10)	9/2/2020			X			X		1	N	X		X												X						
-12	BH-20-4 (14-15)	9/2/2020			X			X		1	N	X		X												X						
-13	BH-20-4 (18-19)	9/2/2020			X			X		1	N	X		X												X						
-14	BH-20-4 (19-20)	9/2/2020			X			X		1	N	X		X												X						
-15	BH-20-5 (0-1)	9/2/2020			X			X		1	N	X		X												X						
-16	BH-20-5 (2-3)	9/2/2020			X			X		1	N	X		X												X						
-17	BH-20-5 (4-5)	9/2/2020			X			X		1	N	X		X												X						
-18	BH-20-5 (7-8)	9/2/2020			X			X		1	N	X		X												X						
-19	BH-20-6 (1-2)	9/2/2020			X			X		1	N	X		X												X						
-20	BH-20-6 (3-4)	9/2/2020			X			X		1	N	X		X												X						

Relinquished by:	Date: 9/3/20	Time: 15:30	Received by: Date: 9.3.20 Time: 15:30
Relinquished by:	Date: 9.3.20	Time: 16:30	Received by: Fedex Date: 9.3.20 Time: 16:30
Relinquished by:	Date:	Time:	Received by: Date: 9-4-20 Time: 7:30

LAB USE ONLY
Sample Temperature
1.5+.1=1.8 NMAS

REMARKS:
- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

L1258582

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 3308-007	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	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	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
		YEAR: 2020																															
-21	BH-20-6 (5-6)	9/2/2020			X				X			1	N	X		X												X					
-22	BH-20-6 (7-8)	9/2/2020			X				X			1	N	X		X												X					
-23	BH-20-6 (9-10)	9/2/2020			X				X			1	N	X		X												X					
-24	BH-20-6 (14-15)	9/2/2020			X				X			1	N	X		X												X					
-25	BH-20-7 (0-1)	9/2/2020			X				X			1	N	X		X												X					
-26	BH-20-7 (2-3)	9/2/2020			X				X			1	N	X		X												X					
-27	BH-20-7 (4-5)	9/2/2020			X				X			1	N	X		X												X					
-28	BH-20-7 (7-8)	9/2/2020			X				X			1	N	X		X												X					
-29	BH-20-8 (0-1)	9/2/2020			X				X			1	N	X		X												X					
-30	BH-20-8 (2-3)	9/2/2020			X				X			1	N	X		X												X					

Relinquished by:	Date: 9/3/20	Time: 15:30	Received by: Date: 9.3.20 Time: 15:30
Relinquished by:	Date: 9.3.20	Time: 16:30	Received by: Date: 9.3.20 Time: 16:30
Relinquished by:	Date:	Time:	Received by: Date: 9.4.20 Time: 8:30

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) ~~HAND DELIVERED~~ FEDEX UPS Tracking #: _____

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

L1258582

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 3308-007	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	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	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-31	BH-20-8 (4-5)	9/2/2020			X				X			1	N	X		X												X								
-32	BH-20-8 (7-8)	9/2/2020			X				X			1	N	X		X												X								
-33	BH-20-9 (0-1)	9/2/2020			X				X			1	N	X		X												X								
-34	BH-20-9 (2-3)	9/2/2020			X				X			1	N	X		X												X								
-35	BH-20-9 (4-5)	9/2/2020			X				X			1	N	X		X												X								
-36	BH-20-9 (7-8)	9/2/2020			X				X			1	N	X		X												X								
-37	BH-20-10 (0-1)	9/2/2020			X				X			1	N	X		X												X								
-38	BH-20-10 (2-3)	9/2/2020			X				X			1	N	X		X												X								
-39	BH-20-10 (4-5)	9/2/2020			X				X			1	N	X		X												X								
-40	BH-20-10 (7-8)	9/2/2020			X				X			1	N	X		X												X								

Relinquished by:	Date: 9-3-20	Time: 15:30	Received by: Date: 9.3.20 Time: 15:30
Relinquished by:	Date: 9.3.20	Time: 16:30	Received by: Date: 9.3.20 Time: 16:30
Relinquished by:	Date:	Time:	Received by: Date: 9-4-20 Time: 930

ORIGINAL COPY

LAB USE ONLY

Sample Temperature
1.7+1.8
NMA3

REMARKS:

- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

LH258582

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	EVGSAU 3308-007	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	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	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
-41	BH-20-11 (0-1)	9/2/2020			X				X		1	N	X		X												X						
-42	BH-20-11 (2-3)	9/2/2020			X				X		1	N	X		X												X						
-43	BH-20-11 (4-5)	9/2/2020			X				X		1	N	X		X												X						
-44	BH-20-11 (7-8)	9/2/2020			X				X		1	N	X		X												X						

Sample Receipt Checklist
COC Seal Present/Intact: Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
RAD Screen <0.5 mR/hr: Y N
If Applicable
VOA Zero Headspace: Y N
Pres.Correct/Check: Y N

Relinquished by: Odvar Dews	Date: 9/3/20	Time: 15:30	Received by:	Date: 9.3.20	Time: 15:30
Relinquished by:	Date: 9.3.20	Time: 16:30	Received by: Fedex	Date: 9.3.20	Time: 1630
Relinquished by:	Date:	Time:	Received by:	Date: 9-4-20	Time: 930

ORIGINAL COPY

LAB USE ONLY
Sample Temperature
1.7+1=1.8
AM AB

REMARKS:
- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

FedEx #: 1922 0813 2384 2400

Cntr 44.

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

November 23, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1285600
Samples Received:	11/13/2020
Project Number:	212C-MD-01929
Description:	COP EVGSAU 3308-007

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

Entire Report Reviewed By:

Jason Romer
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.

TABLE OF CONTENTS

BH 20-12 (0-1') L1285600-01 Solid

Collected by: Adrian Garcia | Collected date/time: 11/11/20 12:00 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579035	1	11/20/20 04:40	11/20/20 04:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1578610	1	11/19/20 00:29	11/19/20 03:33	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1579747	25	11/18/20 10:28	11/20/20 17:28	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1578979	1	11/18/20 10:28	11/19/20 13:48	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1579350	1	11/18/20 10:28	11/20/20 19:37	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1579244	1	11/19/20 22:04	11/20/20 17:32	JN	Mt. Juliet, TN

BH 20-13 (0-1') L1285600-02 Solid

Collected by: Adrian Garcia | Collected date/time: 11/11/20 12:10 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579035	1	11/20/20 04:40	11/20/20 04:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1578610	1	11/19/20 00:29	11/19/20 03:43	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1579747	25	11/18/20 10:28	11/20/20 17:48	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1578979	1	11/18/20 10:28	11/19/20 14:07	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1579350	1	11/18/20 10:28	11/20/20 19:56	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1579244	1	11/19/20 22:04	11/20/20 16:52	JN	Mt. Juliet, TN

BH 20-13 (1-2') L1285600-03 Solid

Collected by: Adrian Garcia | Collected date/time: 11/11/20 12:20 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579035	1	11/20/20 04:40	11/20/20 04:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1578610	1	11/19/20 00:29	11/19/20 03:52	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1579747	1	11/18/20 10:28	11/20/20 18:09	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1578979	1	11/18/20 10:28	11/19/20 14:26	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1579244	1	11/19/20 22:04	11/20/20 19:31	JN	Mt. Juliet, TN

BH 20-14 (0-1') L1285600-04 Solid

Collected by: Adrian Garcia | Collected date/time: 11/11/20 12:30 | Received date/time: 11/13/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1579035	1	11/20/20 04:40	11/20/20 04:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1578610	1	11/19/20 00:29	11/19/20 04:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1579747	1	11/18/20 10:28	11/20/20 18:30	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1578979	1	11/18/20 10:28	11/19/20 17:55	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1579244	1	11/19/20 22:04	11/20/20 17:05	JN	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.

Jason Romer
Project Manager

BH 20-12 (0-1')
Collected date/time: 11/11/20 12:00

SAMPLE RESULTS - 01

L1285600

ONE LAB. NA[illegible]

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.5		1	11/20/2020 04:48	WG1579035

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	68.2		9.44	20.5	1	11/19/2020 03:33	WG1578610

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	1.48	J	0.571	2.63	25	11/20/2020 17:28	WG1579747
(S) a,a,a-Trifluorotoluene(FID)	*107*			*77.0-120*		*11/20/2020 17:28*	WG1579747

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		0.000491	0.00105	1	11/19/2020 13:48	WG1578979
Toluene	U		0.00137	0.00526	1	11/19/2020 13:48	WG1578979
Ethylbenzene	U		0.000775	0.00263	1	11/19/2020 13:48	WG1578979
Total Xylenes	0.00344	J	0.000925	0.00683	1	11/20/2020 19:37	WG1579350
(S) Toluene-d8	*111*			*75.0-131*		*11/19/2020 13:48*	WG1578979
(S) Toluene-d8	*111*			*75.0-131*		*11/20/2020 19:37*	WG1579350
(S) 4-Bromofluorobenzene	*93.6*			*67.0-138*		*11/19/2020 13:48*	WG1578979
(S) 4-Bromofluorobenzene	*89.9*			*67.0-138*		*11/20/2020 19:37*	WG1579350
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/19/2020 13:48*	WG1578979
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*11/20/2020 19:37*	WG1579350

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	5.60		1.65	4.10	1	11/20/2020 17:32	WG1579244
C28-C40 Oil Range	32.9		0.281	4.10	1	11/20/2020 17:32	WG1579244
(S) o-Terphenyl	*72.4*			*18.0-148*		*11/20/2020 17:32*	WG1579244

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.7		1	11/20/2020 04:48	WG1579035

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	43.2		9.41	20.5	1	11/19/2020 03:43	WG1578610

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	2.19	J	0.568	2.62	25	11/20/2020 17:48	WG1579747
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*11/20/2020 17:48*	WG1579747

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		0.000489	0.00105	1	11/19/2020 14:07	WG1578979
Toluene	U		0.00136	0.00523	1	11/19/2020 14:07	WG1578979
Ethylbenzene	U		0.000771	0.00262	1	11/19/2020 14:07	WG1578979
Total Xylenes	0.00165	J	0.000921	0.00680	1	11/20/2020 19:56	WG1579350
(S) Toluene-d8	*113*			*75.0-131*		*11/19/2020 14:07*	WG1578979
(S) Toluene-d8	*113*			*75.0-131*		*11/20/2020 19:56*	WG1579350
(S) 4-Bromofluorobenzene	*93.8*			*67.0-138*		*11/19/2020 14:07*	WG1578979
(S) 4-Bromofluorobenzene	*91.2*			*67.0-138*		*11/20/2020 19:56*	WG1579350
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/19/2020 14:07*	WG1578979
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*11/20/2020 19:56*	WG1579350

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	2.85	J	1.65	4.09	1	11/20/2020 16:52	WG1579244
C28-C40 Oil Range	22.3		0.280	4.09	1	11/20/2020 16:52	WG1579244
(S) o-Terphenyl	*62.1*			*18.0-148*		*11/20/2020 16:52*	WG1579244

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.1		1	11/20/2020 04:48	WG1579035

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.47	20.6	1	11/19/2020 03:52	WG1578610

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	11/20/2020 18:09	WG1579747
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*11/20/2020 18:09*	WG1579747

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000495	0.00106	1	11/19/2020 14:26	WG1578979
Toluene	U		0.00138	0.00530	1	11/19/2020 14:26	WG1578979
Ethylbenzene	U		0.000781	0.00265	1	11/19/2020 14:26	WG1578979
Total Xylenes	U		0.000932	0.00689	1	11/19/2020 14:26	WG1578979
(S) Toluene-d8	*116*			*75.0-131*		*11/19/2020 14:26*	WG1578979
(S) 4-Bromofluorobenzene	*134*			*67.0-138*		*11/19/2020 14:26*	WG1578979
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*11/19/2020 14:26*	WG1578979

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	11.7		1.66	4.12	1	11/20/2020 19:31	WG1579244
C28-C40 Oil Range	68.3		0.282	4.12	1	11/20/2020 19:31	WG1579244
(S) o-Terphenyl	*78.5*			*18.0-148*		*11/20/2020 19:31*	WG1579244

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.5		1	11/20/2020 04:48	WG1579035

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	126		9.44	20.5	1	11/19/2020 04:02	WG1578610

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	0.0290	J	0.0223	0.103	1	11/20/2020 18:30	WG1579747
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*11/20/2020 18:30*	WG1579747

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		0.000491	0.00105	1	11/19/2020 17:55	WG1578979
Toluene	U		0.00137	0.00526	1	11/19/2020 17:55	WG1578979
Ethylbenzene	U		0.000775	0.00263	1	11/19/2020 17:55	WG1578979
Total Xylenes	U		0.000926	0.00684	1	11/19/2020 17:55	WG1578979
(S) Toluene-d8	*114*			*75.0-131*		*11/19/2020 17:55*	WG1578979
(S) 4-Bromofluorobenzene	*96.3*			*67.0-138*		*11/19/2020 17:55*	WG1578979
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*11/19/2020 17:55*	WG1578979

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	3.68	J	1.65	4.10	1	11/20/2020 17:05	WG1579244
C28-C40 Oil Range	21.4		0.281	4.10	1	11/20/2020 17:05	WG1579244
(S) o-Terphenyl	*75.2*			*18.0-148*		*11/20/2020 17:05*	WG1579244

Method Blank (MB)

(MB) R3595504-1 11/20/20 04:48

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

L1285600-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1285600-04 11/20/20 04:48 • (DUP) R3595504-3 11/20/20 04:48

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	97.5	97.4	1	0.0726		10

Laboratory Control Sample (LCS)

(LCS) R3595504-2 11/20/20 04:48

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) R3594878-1 11/19/20 03:15

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

L1285600-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1285600-04 11/19/20 04:02 • (DUP) R3594878-3 11/19/20 04:11

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	126	122	1	2.71		20

L1286922-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1286922-03 11/19/20 05:56 • (DUP) R3594878-6 11/19/20 06:06

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	652	645	1	1.16		20

Laboratory Control Sample (LCS)

(LCS) R3594878-2 11/19/20 03:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	213	107	90.0-110	

L1286922-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1286922-02 11/19/20 05:28 • (MS) R3594878-4 11/19/20 05:37 • (MSD) R3594878-5 11/19/20 05:47

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 %
Chloride	520	100	647	653	105	106	1	80.0-120			0.981	20

Method Blank (MB)

(MB) R3595748-2 11/20/20 09:23

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)	*111*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3595748-1 11/20/20 08:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.81	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*77.0-120*	

L1285600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285600-01 11/20/20 17:28 • (MS) R3595748-3 11/20/20 19:32 • (MSD) R3595748-4 11/20/20 19:53

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 %
TPH (GC/FID) Low Fraction	145	1.48	92.8	115	63.0	78.0	25	10.0-151			21.0	28
(S) a,a,a-Trifluorotoluene(FID)					*106*	*103*		*77.0-120*				

Method Blank (MB)

(MB) R3595077-2 11/19/20 08:27

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	*112*			*75.0-131*
(S) 4-Bromofluorobenzene	*95.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3595077-1 11/19/20 07:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.126	101	70.0-123	
Ethylbenzene	0.125	0.129	103	74.0-126	
Toluene	0.125	0.124	99.2	75.0-121	
Xylenes, Total	0.375	0.396	106	72.0-127	
(S) Toluene-d8			*105*	*75.0-131*	
(S) 4-Bromofluorobenzene			*98.0*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*116*	*70.0-130*	

Method Blank (MB)

(MB) R3595832-2 11/20/20 10:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*110*			*75.0-131*
(S) 4-Bromofluorobenzene	*89.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3595832-1 11/20/20 09:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Xylenes, Total	0.375	0.399	106	72.0-127	
(S) Toluene-d8			*108*	*75.0-131*	
(S) 4-Bromofluorobenzene			*94.4*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*116*	*70.0-130*	

Method Blank (MB)

(MB) R3595607-1 11/20/20 11:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*77.2*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3595607-2 11/20/20 12:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.1	68.2	50.0-150	
(S) o-Terphenyl			*85.0*	*18.0-148*	

L1285600-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1285600-01 11/20/20 17:32 • (MS) R3595607-3 11/20/20 17:45 • (MSD) R3595607-4 11/20/20 17:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	51.0	5.60	40.9	43.4	69.3	74.1	1	50.0-150			5.84	20
(S) o-Terphenyl					*83.4*	*84.3*		*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
J	The identification of the analyte is acceptable; the reported value is an estimate.

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	LAO00356
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

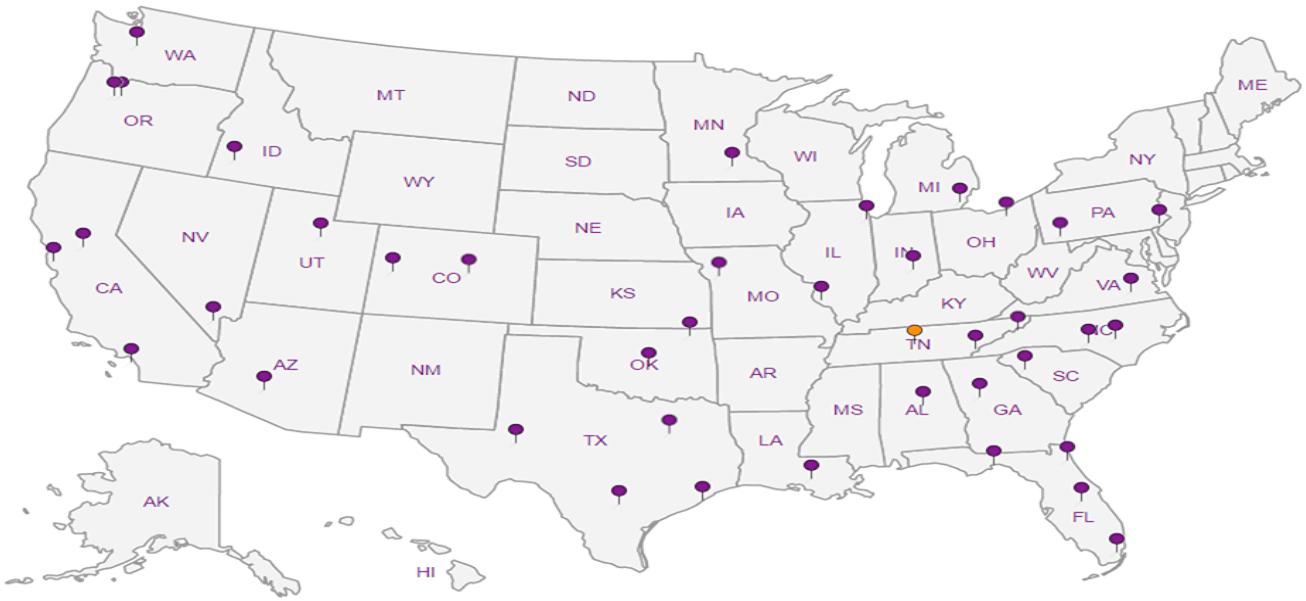
Third Party Federal Accreditations

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.



Page : 1 of 1

Analysis Request of Chain of Custody Record

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:	EVGSAU 3308-007	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-01929
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	Adrian Garcia
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	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	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		HOLD
L12 85660		YEAR: 2020																														
-01	BH 20-12 (0'-1')	11/11/20	1200		X			X		1	N	X		X											X							
02	BH 20-13 (0'-1')	11/11/20	1210		X			X		1	N	X		X											X							
03	BH 20-13 (1-2')	11/11/20	1220		X			X		1	N	X		X											X							
04	BH 20-14 (0-1')	11/11/20	1230		X			X		1	N	X		X											X							

Sample Receipt Checklist
COC Seal Present/Intact: __Y__N
COC Signed/Accurate: __Y__N
Bottles arrive intact: __Y__N
Correct bottles used: __Y__N
Sufficient volume sent: __Y__N
RAD Screen <0.5 mR/hr: __Y__N
If Applicable
VOA Zero Headspace: __Y__N
Pres.Correct/Check: __Y__N

Relinquished by:	Date: 11/12/20	Time: 13:00	Received by:	Date: 11/12/20 Time: 13:00
Relinquished by:	Date: 11/12/20	Time: 16:45	Received by: FedEx	Date: 11/12/20 Time: 16:45
Relinquished by:	Date:	Time:	Received by:	Date: 11/13/2020 Time: 09:00

ORIGINAL COPY

H162

1382 4816 3828

1.2+0=1.2% NM

LAB USE ONLY

Sample Temperature

REMARKS:

- [X] Standard
- [ ] RUSH: Same Day 24 hr. 48 hr. 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

APPENDIX D
Soil Boring Logs

212C-MD-01929 | TETRA TECH

LOG OF BORING BH-20-3

Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.793556, -103.470798 | Surface Elevation: 3950 ft

Borehole Number: BH-20-3 | Borehole Diameter (in.): 8 | Date Started: 9/2/2020 | Date Finished: 9/2/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-- 1 foot of material removed during initial response activities.	1	
			1	0								**-ML-** SILT: White, dense, cemented, with gravel, no odor, no staining.		BH-20-3 (1-2')
				0										BH-20-3 (3-4')
5													4.5	
												-ML- SILT: Tan, dense, cemented, with gravel, no odor, no staining.		BH-20-3 (5-6')
														BH-20-3 (7-8')
10			215	0										BH-20-3 (9-10')
													12	
												-SM- SILTY SAND: Reddish brown, medium dense, no odor, no staining.		
15			137										15	BH-20-3 (14-15')

Bottom of borehole at 15.0 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:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

Logger: Adrian Garcia | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-01929 | TETRA TECH | **LOG OF BORING BH-20-4** | Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.793530, -103.470598 | Surface Elevation: 3950 ft

Borehole Number: BH-20-4 | Borehole Diameter (in.): 8 | Date Started: 9/2/2020 | Date Finished: 9/2/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-- 1 foot of material removed during initial response activities.	1	
				0								**-ML-** SILT: White, dense, cemented, with gravel, no odor, no staining.		BH-20-4 (1-2')
				0										BH-20-4 (3-4')
5													4.5	
				0								**-ML-** SILT: Tan, dense, cemented, with gravel, no odor, no staining.		BH-20-4 (5-6')
			777											BH-20-4 (7-8')
10			1230											BH-20-4 (9-10')
													12	
												-SM- SILTY SAND: Reddish brown, medium dense, no odor, no staining.		
15			1150											BH-20-4 (14-15')
														BH-20-4 (18-19')
			688											BH-20-4 (19-20')
20			700										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:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

Logger: Adrian Garcia | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-01929	TETRA TECH	**LOG OF BORING BH-20-5**	Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.793852, -103.470614 | Surface Elevation: 3950 ft

Borehole Number: BH-20-5 | Borehole Diameter (in.): 8 | Date Started: 9/2/2020 | Date Finished: 9/2/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			31	0								**-ML-** SILT: White, dense, cemented, with gravel, no odor, no staining.		BH-20-5 (0-1')
														BH-20-5 (2-3')
			47	0										BH-20-5 (4-5')
5													4.5	
			52									**-ML-** SILT: Tan, dense, cemented, with gravel, no odor, no staining.		
														BH-20-5 (7-8')
			39										8	

Bottom of borehole at 8.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

Logger: Adrian Garcia | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-01929	TETRA TECH	LOG OF BORING BH-20-6	Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.793748, -103.470523 | Surface Elevation: 3950 ft

Borehole Number: BH-20-6 | Borehole Diameter (in.): 8 | Date Started: 9/2/2020 | Date Finished: 9/2/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▽ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-- 1 foot of material removed during initial response activities.	1	
			75	0								**-ML-** SILT: White, dense, cemented, with gravel, no odor, no staining.		BH-20-6 (1-2')
			91	0										BH-20-6 (3-4')
													4.5	
5												**-ML-** SILT: Tan, dense, cemented, with gravel, no odor, no staining.		BH-20-6 (5-6')
														BH-20-6 (7-8')
													9.5	BH-20-6 (9-10')
10			110	0								**-SM-** SILTY SAND: Reddish brown, medium dense, no odor, no staining.		
														BH-20-6 (14-15')
15			77										15	

Bottom of borehole at 15.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

Logger: Adrian Garcia | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-01929 | TETRA TECH | **LOG OF BORING BH-20-7** | Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.793643, -103.470984 | Surface Elevation: 3950 ft

Borehole Number: BH-20-7 | Borehole Diameter (in.): 8 | Date Started: 9/2/2020 | Date Finished: 9/2/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			70	0								**-SM-** SILTY SAND: Brown, dense, with no odor, no staining.	1.5	BH-20-7 (0-1')
			252	0								**-ML-** SILT: White to light tan, dense, cemented, with gravel, no odor, no staining.		BH-20-7 (2-3')
5			117											BH-20-7 (4-5')
													8	BH-20-7 (7-8')

Bottom of borehole at 8.0 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:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

Logger: Adrian Garcia | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-01929	TETRA TECH	LOG OF BORING BH-20-8	Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.793801, -103.470937 | Surface Elevation: 3950 ft

Borehole Number: BH-20-8 | Borehole Diameter (in.): 8 | Date Started: 9/2/2020 | Date Finished: 9/2/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			132	0								**-SM-** SILTY SAND: Brown, dense, with no odor, no staining.	1.5	BH-20-8 (0-1')
			234	0								**-ML-** SILT: White, dense, cemented, with gravel, no odor, no staining.	3.5	BH-20-8 (2-3')
5			301									**-ML-** SILT: Tan, dense, cemented, with gravel, no odor, no staining.		BH-20-8 (4-5')
			269										8	BH-20-8 (7-8')

Bottom of borehole at 8.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

Logger: Adrian Garcia | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-01929	TETRA TECH	**LOG OF BORING BH-20-9**	Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.793822, -103.470853 | Surface Elevation: 3950 ft

Borehole Number: BH-20-9 | Borehole Diameter (in.): 8 | Date Started: 9/2/2020 | Date Finished: 9/2/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			66	0								**-SM-** SILTY SAND: Brown, dense, with no odor, no staining.	1.5	BH-20-9 (0-1')
			256	0								**-ML-** SILT: White, dense, cemented, with gravel, no odor, no staining.		BH-20-9 (2-3')
5			145											BH-20-9 (4-5')
			93										8	BH-20-9 (7-8')

Bottom of borehole at 8.0 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:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

Logger: Adrian Garcia | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-01929 | TETRA TECH | **LOG OF BORING BH-20-10** | Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.79361, -103.470476 | Surface Elevation: 3950 ft

Borehole Number: BH-20-10 | Borehole Diameter (in.): 8 | Date Started: 9/2/2020 | Date Finished: 9/2/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▽ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			161	0								**-SM-** SILTY SAND: Brown, dense, with no odor, no staining.	1.5	BH-20-10 (0-1')
			334	0								**-ML-** SILT: White to light tan, dense, cemented, with gravel, no odor, no staining.		BH-20-10 (2-3')
5			254											BH-20-10 (4-5')
			291										8	BH-20-10 (7-8')

Bottom of borehole at 8.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

Logger: Adrian Garcia | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-01929	TETRA TECH	**LOG OF BORING BH-20-11**	Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.793549, -103.470465 | Surface Elevation: 3950 ft

Borehole Number: BH-20-11 | Borehole Diameter (in.): 8 | Date Started: 9/2/2020 | Date Finished: 9/2/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
			149	0								**-SM-** SILTY SAND: Brown, dense, with no odor, no staining.	1.5	BH-20-11 (0-1')
			311									**-ML-** SILT: White to light tan, dense, cemented, with gravel, no odor, no staining.		BH-20-11 (2-3')
5			73											BH-20-11 (4-5')
			49										8	BH-20-11 (7-8')

Bottom of borehole at 8.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

Logger: Adrian Garcia | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-01929 | TETRA TECH | **LOG OF BORING BH-20-12** | Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.793854, -103.470611° | Surface Elevation: 3954 ft

Borehole Number: BH-20-12 | Borehole Diameter (in.): 4 | Date Started: 11/11/2020 | Date Finished: 11/11/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-SM- SILTY SAND: Brown, dense, with no odor, no staining.	1	BH-20-12 (0-1')

Bottom of borehole at 1.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

Logger: Adrian Garcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-01929 | TETRA TECH | **LOG OF BORING BH-20-13** | Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.793831, -103.470899 | Surface Elevation: 3955 ft

Borehole Number: BH-20-13 | Borehole Diameter (in.): 4 | Date Started: 11/11/2020 | Date Finished: 11/11/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▽ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-SM- SILTY SAND: Brown, dense, with no odor, no staining.	1.5	BH-20-13 (0-1')
												-ML- SILT: White, dense, cemented, with gravel, no odor, no staining.	2	BH-20-13 (1-2')
												Bottom of borehole at 2.0 feet.		

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

Logger: Adrian Garcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-01929 | TETRA TECH | **LOG OF BORING BH-20-14** | Page 1 of 1

Project Name: EVGSAU 3308-007 Release

Borehole Location: GPS: 32.793939, -103.470722 | Surface Elevation: 3955 ft

Borehole Number: BH-20-14 | Borehole Diameter (in.): 4 | Date Started: 11/11/2020 | Date Finished: 11/11/2020

WATER LEVEL OBSERVATIONS

While Drilling ▽ DRY ft Upon Completion of Drilling ▼ DRY ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-SM- SILTY SAND: Brown, dense, with no odor, no staining.	1	BH-20-14 (0-1')

Bottom of borehole at 1.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

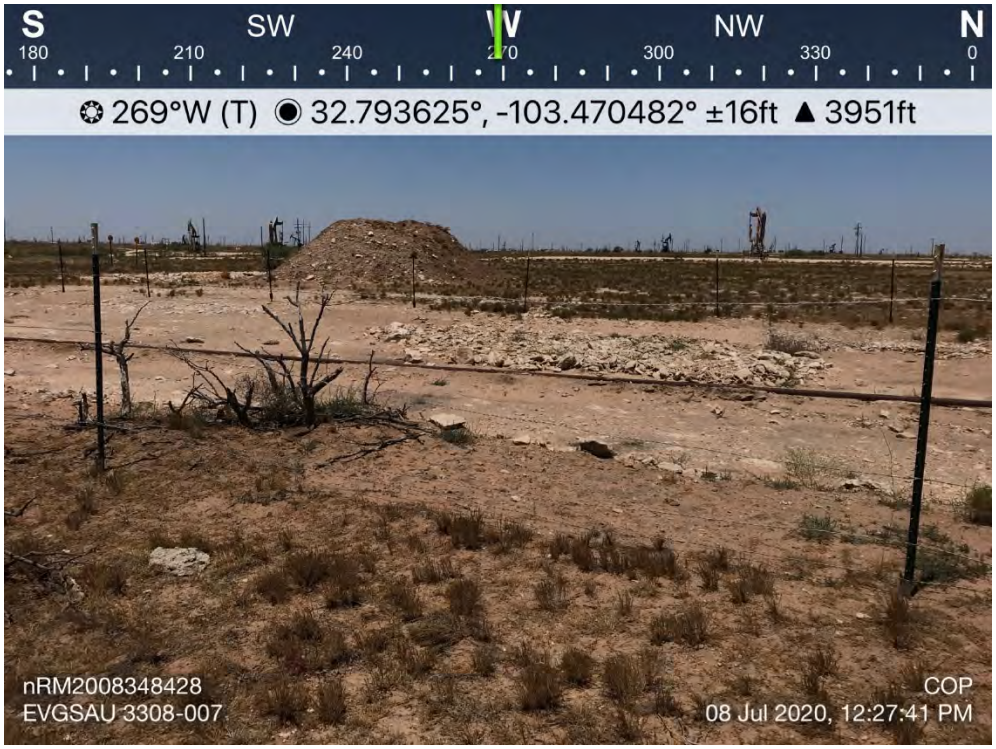
Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value obtained from Google Earth.

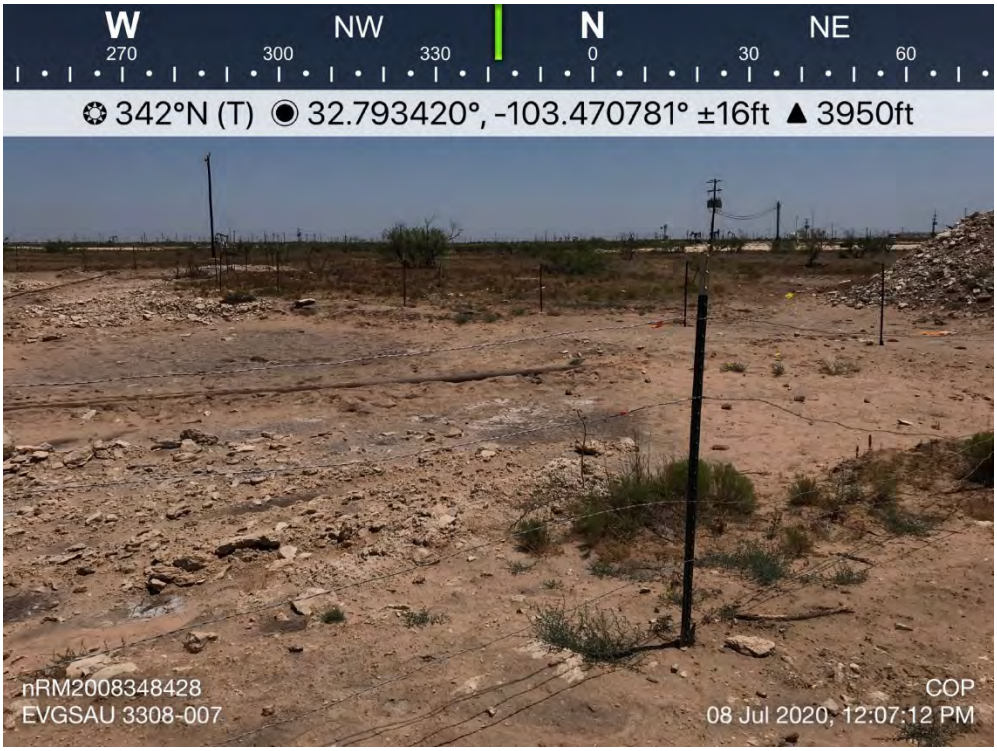
Logger: Adrian Garcia | Drilling Equipment: Hand Auger | Driller: Tetra Tech

APPENDIX E
Photographic Documentation



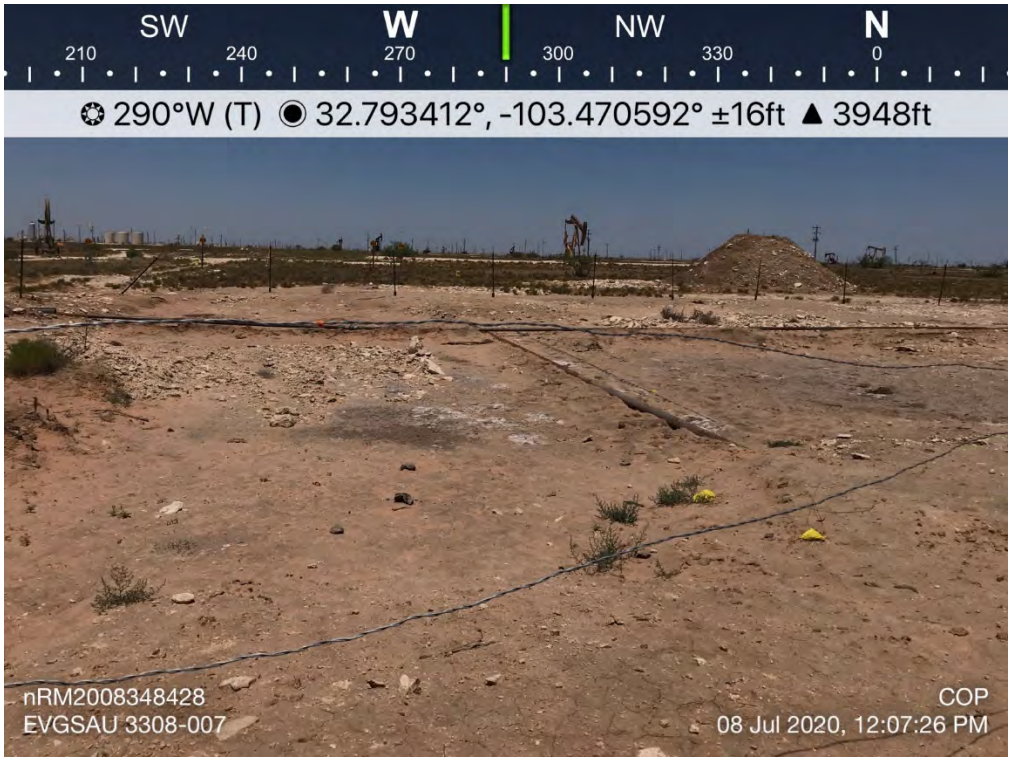
TETRA TECH, INC. PROJECT NO. 212C-MD-01929	DESCRIPTION	View west over release footprint and excavated area. Stockpile to rear. Site Coordinates: 32.793744°, -103.470587°	1
	SITE NAME	EVGSAU 3308-007 Flowline Release	7/08/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-01929	DESCRIPTION	View west-northwest of central portion of the release and excavation.	2
	SITE NAME	EVGSAU 3308-007 Flowline Release	7/08/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01929	DESCRIPTION	View north over eastern flank of the release extent.	3
	SITE NAME	EVGSAU 3308-007 Flowline Release	7/08/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-01929	DESCRIPTION	View south over the release extent and excavated area.	4
	SITE NAME	EVGSAU 3308-007 Flowline Release	7/08/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-01929	DESCRIPTION	View west of southern half of release extent and excavated area.	5
	SITE NAME	EVGSAU 3308-007 Flowline Release	7/08/2020

APPENDIX F
NMSLO Seed Mixture Details

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico

EVGSAU 3308-007 Release

December 1, 2020

Custom Soil Resource Report
Soil Map (EVGSAU 3308-007)

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 17, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend (EVGSAU 3308-007)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	0.8	100.0%
Totals for Area of Interest		**0.8**	**100.0%**

Map Unit Descriptions (EVGSAU 3308-007)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46
Elevation: 2,500 to 4,800 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent
Lea and similar soils: 25 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Plains, playa rims
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam
Bw - 3 to 10 inches: loam
Bkkm1 - 10 to 16 inches: cemented material
Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 95 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water capacity: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Hydric soil rating: No

Minor Components

Douro

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Kenhill

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY038TX - Clay Loam 12-17" PZ
Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent
Landform: Plains, playa rims
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

NMSLO Seed Mix Sandy Loam (SL)

SANDY LOAM (SL) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Galleta grass	Viva, VNS, So.	2.5	F
Little bluestem	Cimmaron, Pastura	2.5	F
Blue grama	Hachita, Lovington	2.0	D
Sideoats grama	Vaughn, El Reno	2.0	F
Sand dropseed	VNS, Southern	1.0	S
Forbs:			
Indian blanketflower	VNS, Southern	1.0	D
Parry penstemon	VNS, Southern	1.0	D
Blue flax	Appar	1.0	D
Desert globemallow	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	VNS, Southern	2.0	D
Common winterfat	VNS, Southern	1.0	F
Apache plume	VNS, Southern	0.75	F
	Total PLS/acre	17.75	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 21130

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
CONOCOPHILLIPS COMPANY P.O.Box 2197 Office SP2-12-W156 Houston, TX77252	217817	21130	C-141

OCD Reviewer	Condition
ceads	Additional remediation may be required if laboratory results indicate soils exceed Table I Closure Criteria, or if 19.15.29.13 NMAC reclamation requirements are not met after proposed excavation is completed.