SITE INFORMATION

Report Type: Work Plan 1RP-5238

General Site Information:						
Site:	**Wilder 28 Federal #1H Release**					
Company:	**ConocoPhillips**					
Section, Township and Range	**Unit Letter A**	**Sec. 28**	**T 26S**	**R 32E**		
Lease Number:	**Associated API No. 30-025-40261**					
County:	**Lea**					
GPS:	**32.019299°**			**-103.674393°**		
Surface Owner:	**Federal (BLM**					
Mineral Owner:	**N/A**					
Directions:	Depart from Jal (NM128/NM18). Head west on NM128 for 30 miles. Turn left onto Orla Rd. Head south for 13.6 miles. Turn left onto Battle Axe Rd. Head east for 1.7 miles. Arrive at location on the right.					

Release Data:		
Date Released:	10/10/2018	
Type Release:	Produced Water	
Source of Contamination:	Illegal dumping from water hauler	
Fluid Released:	12.67 bbl	
Fluids Recovered:	0 bbl	

Official Communication:			
Name:	Marvin Soriwei		Christian M. Llull
Company:	Conoco Phillips - RMR		Tetra Tech
Address:	935 N. Eldridge Pkwy.		8911 North Capital of Texas Highway
	832-486-2730		Building 2, Suite 2310
City:	Houston, Texas 77079		Austin, Texas
Phone number:	(832) 486-2730		(512) 338-2861
Fax:			
Email:	Marvin.Soriwei@conocophillips.com		christian.llull@tetratech.com

Site Characterization	
Shallowest Depth to Groundwater:	*239' 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 lake:	*No*
Extents within 300 feet of an occupied structure:	*No*
Extents within 500 horizontal feet of a private water well:	*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:	*High*
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*	*--*	*100 mg/kg*	*600 mg/kg*

TETRA TECH

April 6, 2020

Rick Rickman
District Supervisor
Oil Conservation Division, District 1
1625 N. French Dr.
Hobbs, NM 88240

Re: Release Characterization Work Plan
ConocoPhillips
Wilder 28 Federal #1H Release
Unit Letter A, Section 28, Township 26 South, Range 32 East
Lea County, New Mexico
1RP-5238
Incident ID NOY1828949839

Dear Mr. Rickman:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a release that occurred on the Wilder 28 Federal #1H well pad (API No. 30-025-40261), Unit Letter A, Section 28, Township 26 South, Range 32 East, in Lea County, New Mexico (Site). The release coordinates are 32.019299°, -103.674393°. The Site is located near the Lea/Eddy County line and the Texas state border, as 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 October 10, 2018. As documented on the C-141 form, a truck illegally dumped contents of load on the ConocoPhillips Wilder 28 Federal Well #1 pad location. Upon arrival to site, the crew working in the area identified the release and discovered a depression in the ground with tire tracks that was consistent with the dump valve on a water hauler. The tire tread observed did not match any of the trucks located on site. The release was calculated at 12.67 barrels of produced water. Based on observations made on the ground and corroborated by drone aerial photographs taken by COP shortly following the release, the release extent was limited to the caliche pad (Figure 3). The New Mexico Oil Conservation District (NMOCD) was notified of the release in a voicemail on October 11, 2018, received the initial C-141 on October 16, 2018, and subsequently assigned the Site the Remediation Permit (RP) number 1RP-5238. The Incident ID for this release is NOY1828949839.

SITE CHARACTERIZATION

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

There are no water wells listed in Section 28, Township 26 South, Range 32 East on the New Mexico Office of the State Engineer (NMOSE) database. The average depth to groundwater in Township 26 South, Range 32 East is 239 ft below ground surface (bgs). Site characterization data are included as Appendix B.

REGULATORY FRAMEWORK

A risk-based evaluation was performed for the Site in accordance with the NMOCD to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil. Based on the high potential for karst at the Site, the RRALs for the Site are as follows:

CONSTITUENT	RRAL
Chloride (0 – 4 ft bgs)	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

SITE ASSESSMENT

Tetra Tech, Inc. (Tetra Tech) initially visited the Site on July 19, 2019 to visually observe the release extent, assess the impacted area, and conduct field screenings of the surface soil to distinguish the release extent. Several areas within the release footprint were screened for chlorides using an ExStik EC400 meter. Screening results exceeded 10,000 ppm at all five soil screening locations. The initial observed release extent and screening locations are shown on Figure 3.

On February 4 and February 7, 2020, Tetra Tech conducted soil sampling in order to achieve vertical and horizontal delineation of the release. A total of nine borings were installed using an air rotary drilling rig. Boring locations were chosen based on the soil screening results from the Site visit, as shown in Figure 3. A total of 38 soil samples were collected from the nine borings and submitted to Pace Analytical National Center for Testing & Innovation in Nashville, Tennessee (Pace) to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C.

SUMMARY OF SAMPLING RESULTS

The results of the February 2020 sampling event are summarized in Table 1. The boring locations are shown on Figure 3. Soil screening results from seven of the nine borings indicated chloride concentrations above RRAL of 600 mg/kg for chloride in the upper 0-5 ft bgs. However, the only analytical result above the RRAL for chloride was associated with sample location BH-1 at 0-1 ft bgs. All other chloride analytical results were below the RRAL. Analytical results associated with all the collected samples were below the established RRALs for BTEX and TPH (Table 1).

REMEDIATION WORK PLAN

Based on the visual assessment and soil screening and analytical results, ConocoPhillips proposes to remove impacted material to 1 ft bgs, as shown in Figure 4. Impacted soils will be excavated until a representative sample from the walls and bottom of the excavation is below the RRAL Excavations are proposed to be performed using heavy equipment (backhoes, hoe rams, and track hoes) to a maximum depth of 1 feet below surface within the release area. Excavated soils will be transported offsite and disposed of in an NMOCD approved or permitted facility. Confirmation floor and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX and chloride. Once the sample 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 excavated is 600 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 confirmation sampling grid is designed such that each discrete sample (sidewall and floor) will be representative of no more than 500 square ft of excavated area (Figure 4). Based on the proposed excavation extents, the confirmation sampling plan consists of thirty-two (32) floor samples and twenty-nine (29) sidewall samples.

CONCLUSION

ConocoPhillips proposes to complete remediation activities at the Site within 90 days of NMOCD approval of this submittal. 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. 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 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 – Overview Map
Figure 2 – Site Location/Topographic Map
Figure 3 – Release Assessment Map
Figure 4 – Proposed Excavation and Confirmation Sampling Plan

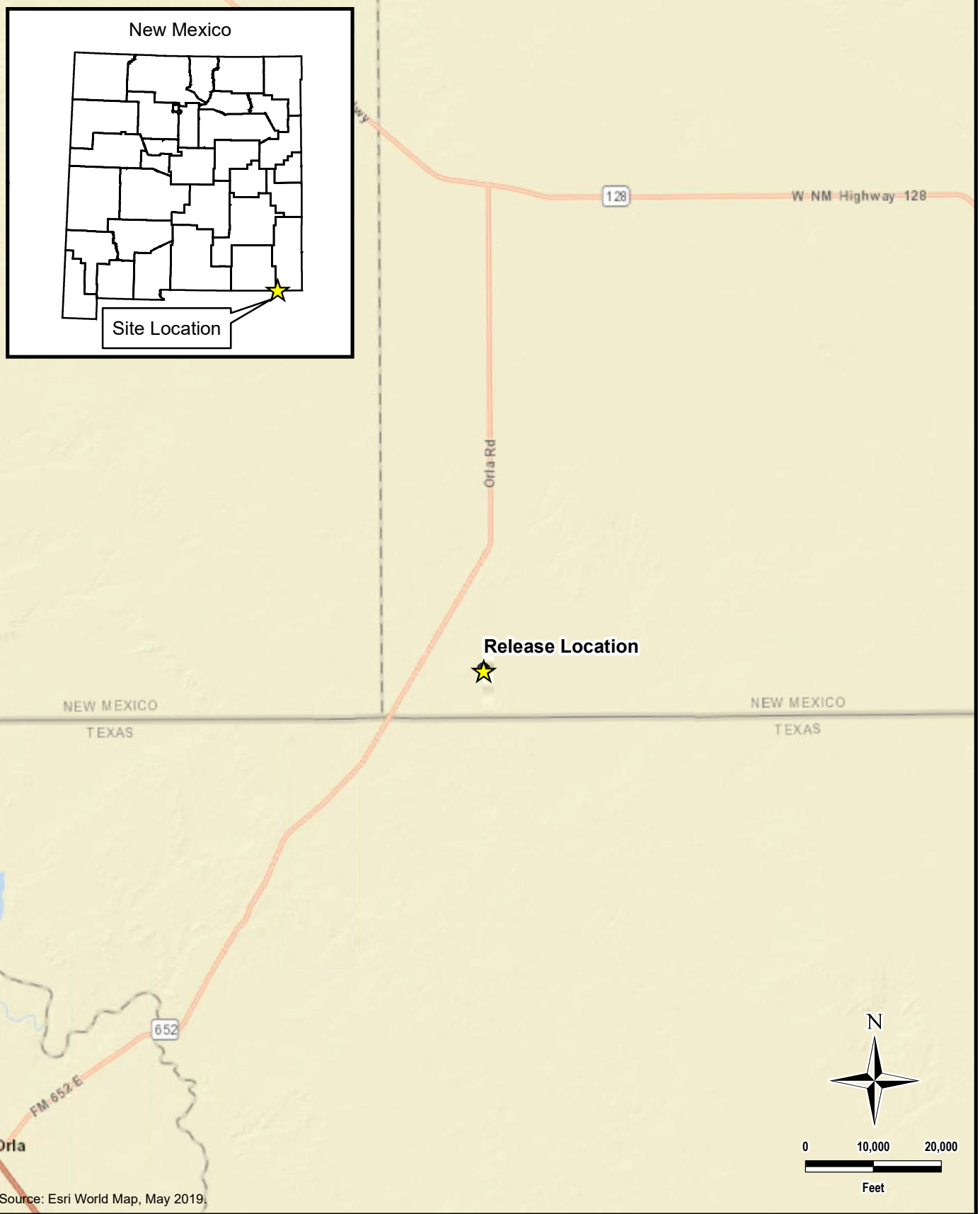
Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

Appendices:

Appendix A – C-141 Form
Appendix B – Site Characterization Data
Appendix C – Laboratory Analytical Data
Appendix D – Boring Logs

FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WILDER 28-1\FIGURE 1 OVERVIEW MAP_WILDER 28-1.MXD

TETRA TECH
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901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

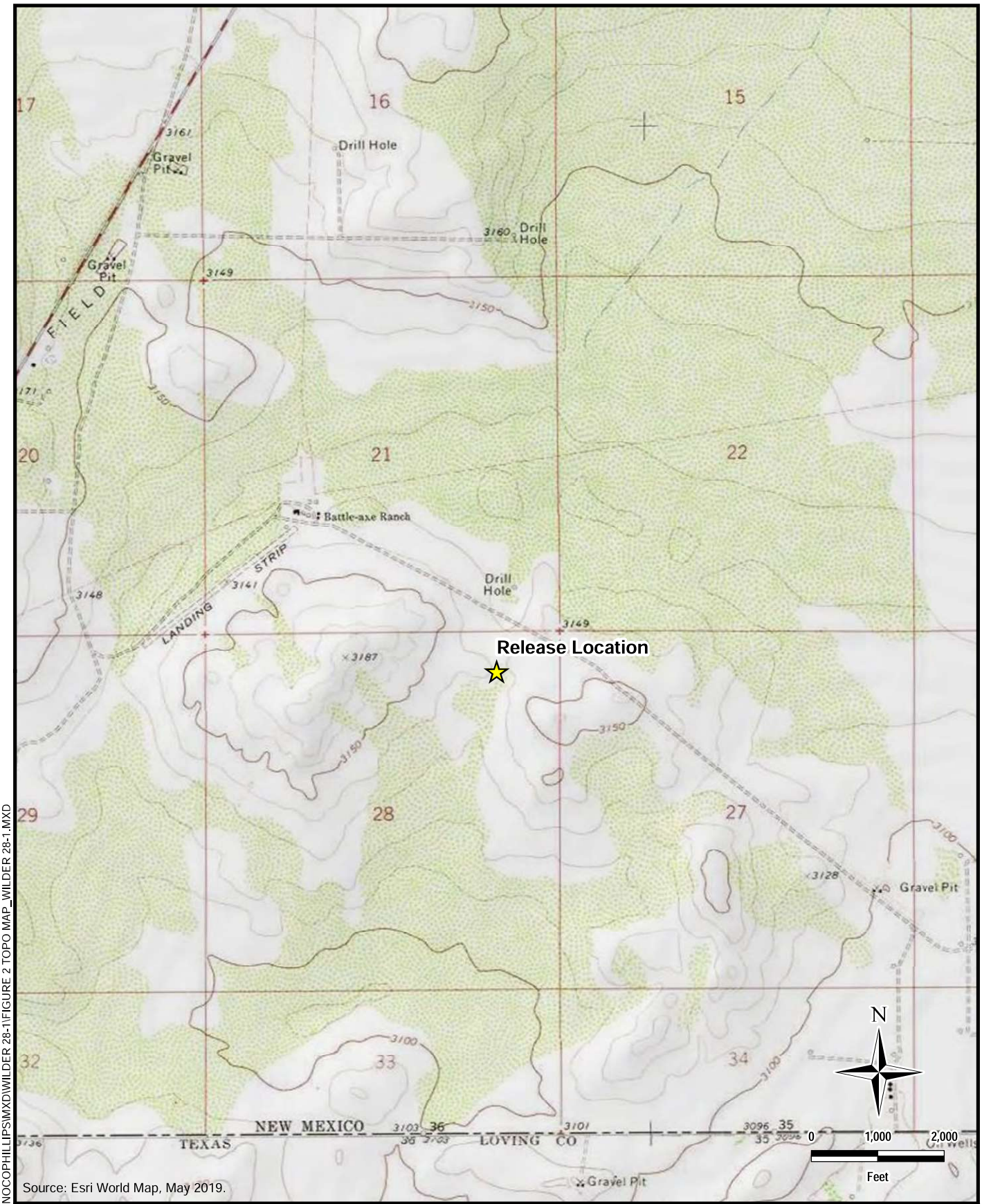
CONOCOPHILLIPS

(32.019299°, -103.674393°)
LEA COUNTY, NEW MEXICO

WILDER 28 FEDERAL #1H RELEASE
OVERVIEW MAP

PROJECT NO.:	212C-MD-02031
DATE:	MARCH 13, 2020
DESIGNED BY:	AAM

Figure No.
1



Source: Esri World Map, May 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WILDER 28-1\FIGURE 2 TOPO MAP_WILDER 28-1.MXD

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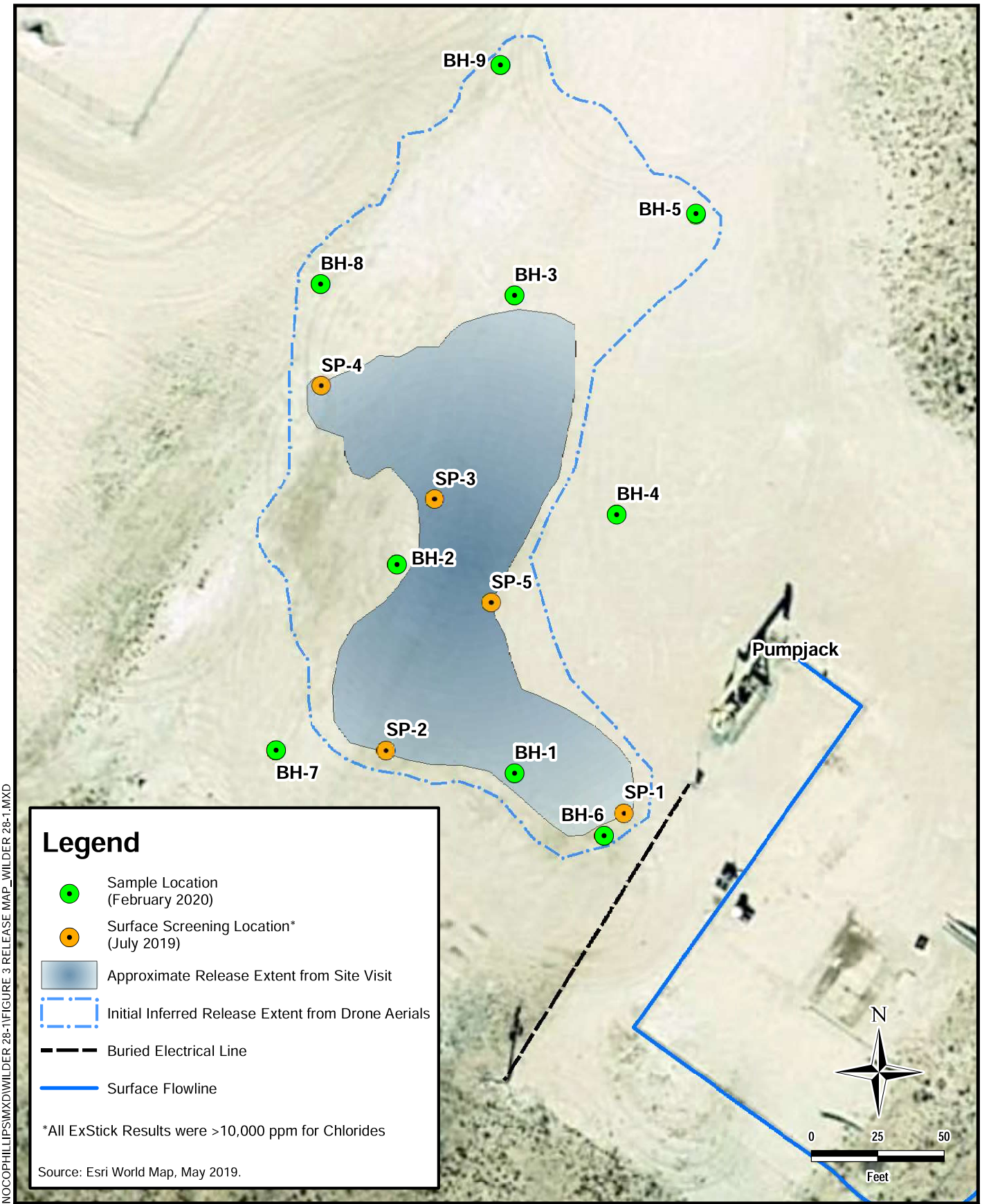
CONOCOPHILLIPS

(32.019299°, -103.674393°)
LEA COUNTY, NEW MEXICO

WILDER 28 FEDERAL #1H RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-02031
DATE:	MARCH 13, 2020
DESIGNED BY:	AAM

Figure No.
2



Legend

- Sample Location (February 2020)
- Surface Screening Location* (July 2019)
- Approximate Release Extent from Site Visit
- Initial Inferred Release Extent from Drone Aerials
- Buried Electrical Line
- Surface Flowline

*All ExStick Results were >10,000 ppm for Chlorides

Source: Esri World Map, May 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WILDER 28-1\FIGURE 3 RELEASE MAP_WILDER 28-1.MXD

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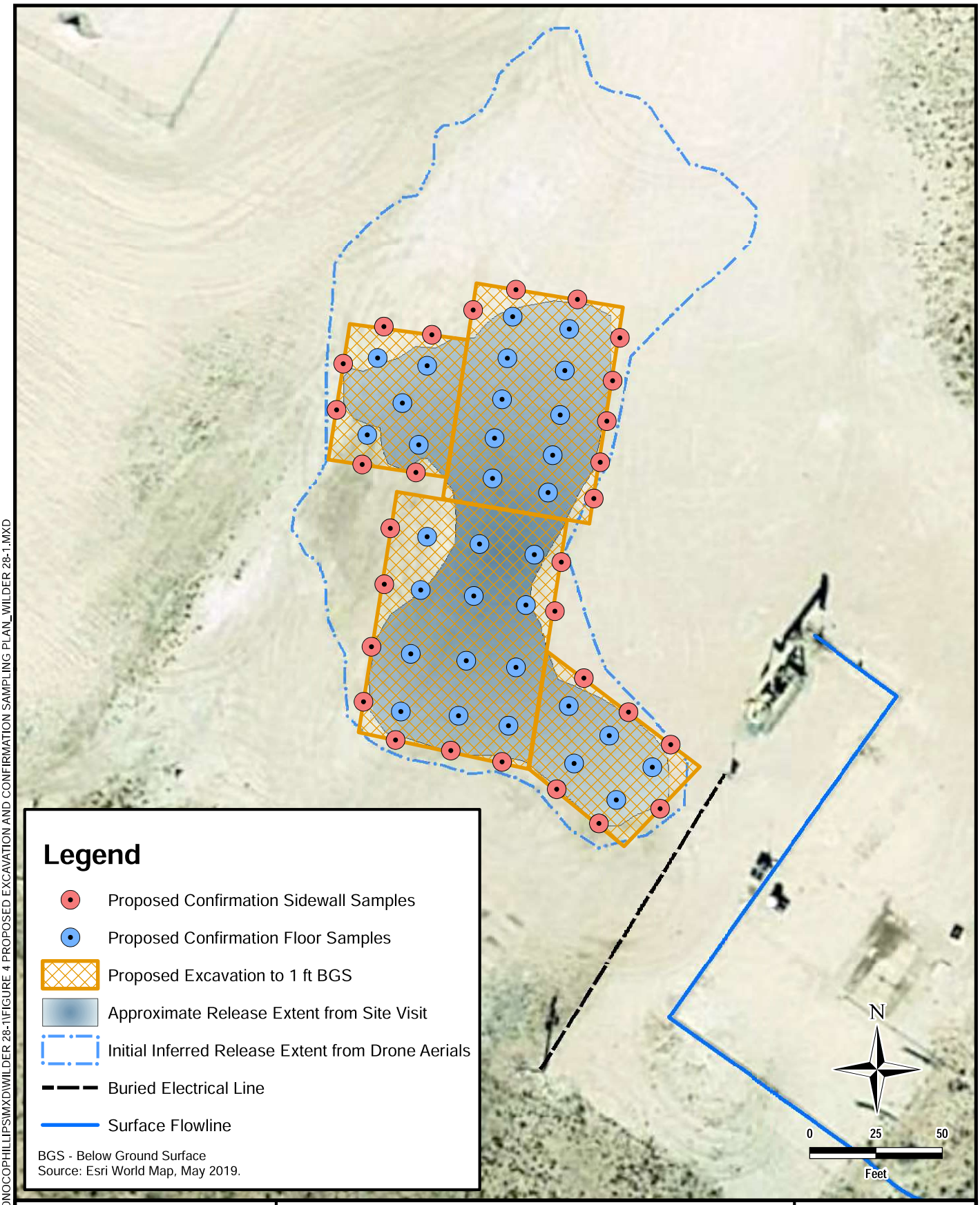
CONOCOPHILLIPS

(32.019299°, -103.674393°)
LEA COUNTY, NEW MEXICO

WILDER 28 FEDERAL #1H RELEASE
APPROXIMATE RELEASE EXTENT

PROJECT NO.:	212C-MD-02031
DATE:	MARCH 18, 2020
DESIGNED BY:	AAM

Figure No.
3



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WILDER 28-1\FIGURE 4 PROPOSED EXCAVATION AND CONFIRMATION SAMPLING PLAN_WILDER 28-1.MXD

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CONOCOPHILLIPS

(32.019299°, -103.674393°)
LEA COUNTY, NEW MEXICO

WILDER 28 FEDERAL #1H RELEASE
PROPOSED EXCAVATION AND CONFIRMATION SAMPLING PLAN

PROJECT NO.:	212C-MD-02031
DATE:	MARCH 13, 2020
DESIGNED BY:	AAM

Figure No.
4

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - 1RP-5238
CONOCOPHILLIPS
WILDER 28 Federal #1H RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Field Screening Results		Chloride[1]		BTEX[2]									TPH[3]							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO[4]		DRO		ORO		TPH
																C_6 - C_{10}		C_{10} - C_{28}		C_{28} - C_{40}		C_6 - C_{40}
		ft bgs	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-1	02/04/20	0-1	609	0.9	***816***		0.000486	J	0.00425	J	0.00182	J	0.0123		0.0189	0.0311	B J	< 4.86		0.892	B J	0.923
		2-3	472	1.1	359		< 0.00106		0.00158	J	0.000713	J	< 0.00686		0.00229	0.0430	B J	1.97	J	5.66	B	7.67
		4-5	201	1.2	78.4		< 0.00109		0.00178	J	< 0.00273		< 0.00711		0.00178	0.0453	B J	1.95	J	4.33	B J	6.33
		6-7	1150	0.2	366		< 0.00115		0.00226	J	< 0.00287		< 0.00746		0.00226	0.0454	B J	1.95	J	3.47	B J	5.47
		9-10	-	0.1	414		< 0.00106		0.00159	J	< 0.00265		< 0.00689		0.00159	0.0374	B J	< 4.24		2.35	B J	2.39
BH-2	02/04/20	0-1	951	0.2	63.4		< 0.00124		0.00217	J	< 0.00309		< 0.00804		0.00217	0.0479	B J	< 4.95		1.70	B J	1.75
		2-3	508	1.8	32.7	B	0.000618	J	< 0.00618		< 0.00309		< 0.00803		0.000618	< 0.124		< 4.94		6.66	B	6.66
		4-5	390	0.4	73.3		< 0.00117		0.00167	J	< 0.00292		< 0.00759		0.00167	0.0513	B J	< 4.67		1.38	B J	1.43
		6-7	-	0.9	60.9		< 0.00103		0.00132	J	< 0.00257		< 0.00669		0.00132	0.0373	B J	< 4.12		1.07	B J	1.11
		9-10	-	1.1	HOLD		HOLD		HOLD		HOLD		HOLD		-	HOLD		HOLD		HOLD		-
BH-3	02/04/20	0-1	694	0.9	299		< 0.00107		< 0.00533		< 0.00266		< 0.00693		-	0.0409	B J	< 4.26		7.61	B	7.65
		2-3	252	0.8	65.6		< 0.00116		0.00163	J	< 0.00290		< 0.00755		0.00163	0.0477	B J	< 4.64		4.82	B	4.87
		4-5	1130	1.3	215		< 0.00119		0.00148	J	< 0.00296		< 0.00771		0.00148	0.0435	B J	< 4.74		5.84	B	5.88
		6-7	-	0.1	327		< 0.00110		< 0.00551		< 0.00275		< 0.00716		-	0.0420	B J	< 4.41		0.601	B J	0.643
		9-10	-	0.0	HOLD		HOLD		HOLD		HOLD		HOLD		-	HOLD		HOLD		HOLD		-
BH-4	02/04/20	0-1	879	0.2	54.8		< 0.00107		< 0.00533		< 0.00266		< 0.00693		-	0.0386	B J	< 4.26		3.44	B J	3.48
		2-3	501	0.1	76.3		< 0.00122		< 0.00608		< 0.00304		< 0.00790		-	0.0463	B J	< 4.86		< 4.86		0.0463
		4-5	291	0.6	20.8	B	< 0.00105		0.00223	J	0.000943	J	< 0.00681		0.00317	0.0423	B J	7.65		17.0	B	24.7
		6-7	-	1.2	9.20	B J	< 0.00104		0.00174	J	< 0.00259		< 0.00675		0.00174	0.0422	B J	< 4.15		1.02	B J	1.06
		9-10	-	0.3	HOLD		HOLD		HOLD		HOLD		HOLD		-	HOLD		HOLD		HOLD		-
BH-5	02/04/20	0-1	209	2.0	38.1		< 0.00126		< 0.00629		< 0.00314		< 0.00818		-	0.0491	B J	< 5.03		0.648	B J	0.697
		2-3	198	1.1	50.9		< 0.00108		< 0.00542		< 0.00271		< 0.00705		-	0.0421	B J	< 4.34		2.23	B J	2.27
		4-5	-	0.8	562		< 0.00111		< 0.00555		< 0.00278		< 0.00722		-	0.0435	B J	< 4.44		2.07	B J	2.11
		6-7	-	0.3	499		0.000556	J	< 0.00529		< 0.00265		< 0.00688		0.000556	< 0.106		< 4.23		1.27	J	1.27
		9-10	-	0.1	HOLD		HOLD		HOLD		HOLD		HOLD		-	HOLD		HOLD		HOLD		-
BH-6	02/07/20	0-1	698	1.5	121		< 0.00121		< 0.00606		< 0.00303		< 0.00787		-	< 0.121		2.82	J	10.4		13.2
		2-3	453	1.1	60.8		< 0.00109		< 0.00545		< 0.00272		< 0.00708		-	< 0.109		< 4.36		3.61	J	3.61
		4-5	-	0.9	50.4		< 0.00108		< 0.00541		< 0.00271		< 0.00704		-	< 0.108		< 4.33		0.444	J	0.444
		6-7	225	0.3	44.3		< 0.00110		< 0.00548		< 0.00274		< 0.00712		-	< 0.110		< 4.38		< 4.38		-
		9-10	208	0.5	31.8		< 0.00107		< 0.00534		< 0.00267		< 0.00695		-	< 0.107		< 4.28		< 4.28		-
BH-7	02/07/20	0-1	155	0.9	5.19	B J	< 0.00103		< 0.00516		< 0.00258		< 0.00670		-	< 0.103		2.07	J	6.42		8.49
		2-3	-	0.5	21.1	B	< 0.00120		< 0.00601		< 0.00301		< 0.00782		-	< 0.120		< 4.81		3.51	J	3.51
		4-5	1080	0.3	209		< 0.00109		< 0.00546		< 0.00273		< 0.00710		-	< 0.109		< 4.37		0.360	J	0.360
		6-7	-	0.9	487		< 0.00108		< 0.00542		< 0.00271		< 0.00704		-	< 0.108		< 4.34		< 4.34		-
		9-10	472	1.1	HOLD		HOLD		HOLD		HOLD		HOLD		-	HOLD		HOLD		HOLD		-
BH-8	02/07/20	0-1	733	1.9	41.8		< 0.00125		< 0.00625		< 0.00312		< 0.00812		-	< 0.125		< 5.00		2.65	J	2.65
		2-3	293	0.8	22.1	B	< 0.00108		< 0.00542		< 0.00271		< 0.00704		-	< 0.108		< 4.34		1.71	B J	1.71
		4-5	-	0.5	22.3	B	< 0.00112		< 0.00558		< 0.00279		< 0.00725		-	< 0.112		< 4.46		1.80	B J	1.80
		6-7	350	0.4	28.6	B	< 0.00109		< 0.00546		< 0.00273		< 0.00710		-	< 0.109		< 4.37		0.939	B J	0.939
		9-10	-	0.1	HOLD		HOLD		HOLD		HOLD		HOLD		-	HOLD		HOLD		HOLD		-
BH-9	02/07/20	0-1	481	0.2	10.1	B J	< 0.00104		< 0.00519		< 0.00259		< 0.00674		-	< 0.104		2.54	J	12.7		15.2
		2-3	290	0.1	5.67	B J	< 0.00113		< 0.00566		< 0.00283		< 0.00735		-	< 0.113		2.30	J	9.65		12.0
		4-5	-	0.0	124		< 0.00125		< 0.00624		< 0.00312		< 0.00811		-	< 0.125		< 4.99		0.686	B J	0.686
		6-7	-	0.9	187		< 0.00122		< 0.00611		< 0.00305		< 0.00794		-	< 0.122		< 4.88		1.27	B J	1.27
		9-10	-	0.5	HOLD		HOLD		HOLD		HOLD		HOLD		-	HOLD		HOLD		HOLD		-

NOTES:

ft Feet
bgs Below ground surface
ppm Parts per million
mg/kg Milligrams per kilogram
HOLD Hold on laboratory analysis
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics

Bold and italicized values indicate exceedance of RRALS.

1 Method 300.0
2 Method 8260B
3 Method 8015M
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	NOY1828949839
District RP	1RP-5238
Facility ID	
Application ID	pOY1828947976

Release Notification

Responsible Party

Responsible Party ConocoPhillips	OGRID 217817
Contact Name Brandon Davis	Contact Telephone 281-687-2852
Contact email Brandon.Davis@ConocoPhillips.com	Incident # *(assigned by OCD)* NOY1828949839
Contact mailing address 15 W London Rd, Loving, NM	

Location of Release Source

Latitude 32.019273 N Longitude -103.674506 W
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Wilder 28-1	Site Type Well Pad
Date Release Discovered 10/10/2018	API# *(if applicable)* 30-025-40261

Unit Letter	Section	Township	Range	County
A	28	26S	32E	Lea

Federal minerals

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

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)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 12.67	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) 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
Truck illegal dumped contents of load on ConocoPhillips pad location. Upon arrival to site on 10/10/2018 the crew working in the area identified the spill and discovered a depression in the ground with tire tracks that are consistent with the dump valve on a water hauler. Tire tread of the tracks did not match any of the trucks located on site. The spill was calculated at 12.67 barrels of produced water.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NOY1828949839
District RP	1RP-5238
Facility ID	
Application ID	pOY1828947976

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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Brandon Davis called Olivia Yu and left a voicemail on 10/11/2018.	

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: Brandon Davis Title: HSE Specialist

Signature: [signature] Date: 10/12/2018

email: Brandon.Davis@ConocoPhillips.com Telephone: 281-687-2852

OCD Only

Received by: RECEIVED By Olivia Yu at 1:55 pm, Oct 16, 2018 Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NOY1828949839
District RP	1RP-5238
Facility ID	
Application ID	pOY1828947976

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?	239 (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	NOY1828949839
District RP	1RP-5238
Facility ID	
Application ID	pOY1828947976

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: 4/6/2020

email: marvin.soriwei@conocophillips.com Telephone: 823-486-2730

OCD Only

Received by: Cristina Eads Date: 04/06/2020

State of New Mexico
Oil Conservation Division

Incident ID	NOY1828949839
District RP	1RP-5238
Facility ID	
Application ID	pOY1828947976

Remediation Plan

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

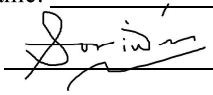
- ☑ Detailed description of proposed remediation technique
- ☑ Scaled sitemap with GPS coordinates showing delineation points
- ☑ Estimated volume of material to be remediated
- ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☑ Proposed schedule for remediation (note 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: 4/6/2020

email: marvin.soriwei@conocophillips.com Telephone: 832-486-2730

OCD Only

Received by: Cristina Eads Date: 04/06/2020

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

Signature:  Date: 05/08/2020

Incident ID	NOY1828949839
District RP	1RP-5238
Facility ID	
Application ID	pOY1828947976

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02271	R	CUB	LE		2	3	21	26S	32E	624449	3544111*	150	125	25
C 02271 POD2		CUB	LE	3	2	3	21	26S	32E	624348	3544010*	270	250	20
C 02274		CUB	LE	2	1	2	31	26S	32E	621742	3541730*	300	295	5
C 02323		C	LE	3	2	3	21	26S	32E	624348	3544010*	405	405	0
C 03537 POD1		CUB	LE	3	2	3	21	26S	32E	624250	3543985	850		
C 03595 POD1		CUB	LE	4	2	3	21	26S	32E	624423	3544045	280	180	100
C 03829 POD1		CUB	LE	3	3	1	06	26S	32E	620628	3549186	646	350	296
C 04209 POD1		CUB	LE	2	3	3	06	26S	32E	620903	3548619	360	155	205
C 04209 POD2		C	LE	2	3	3	06	26S	32E	620818	3548657	340	155	185

Average Depth to Water: **239 feet**

Minimum Depth: **125 feet**

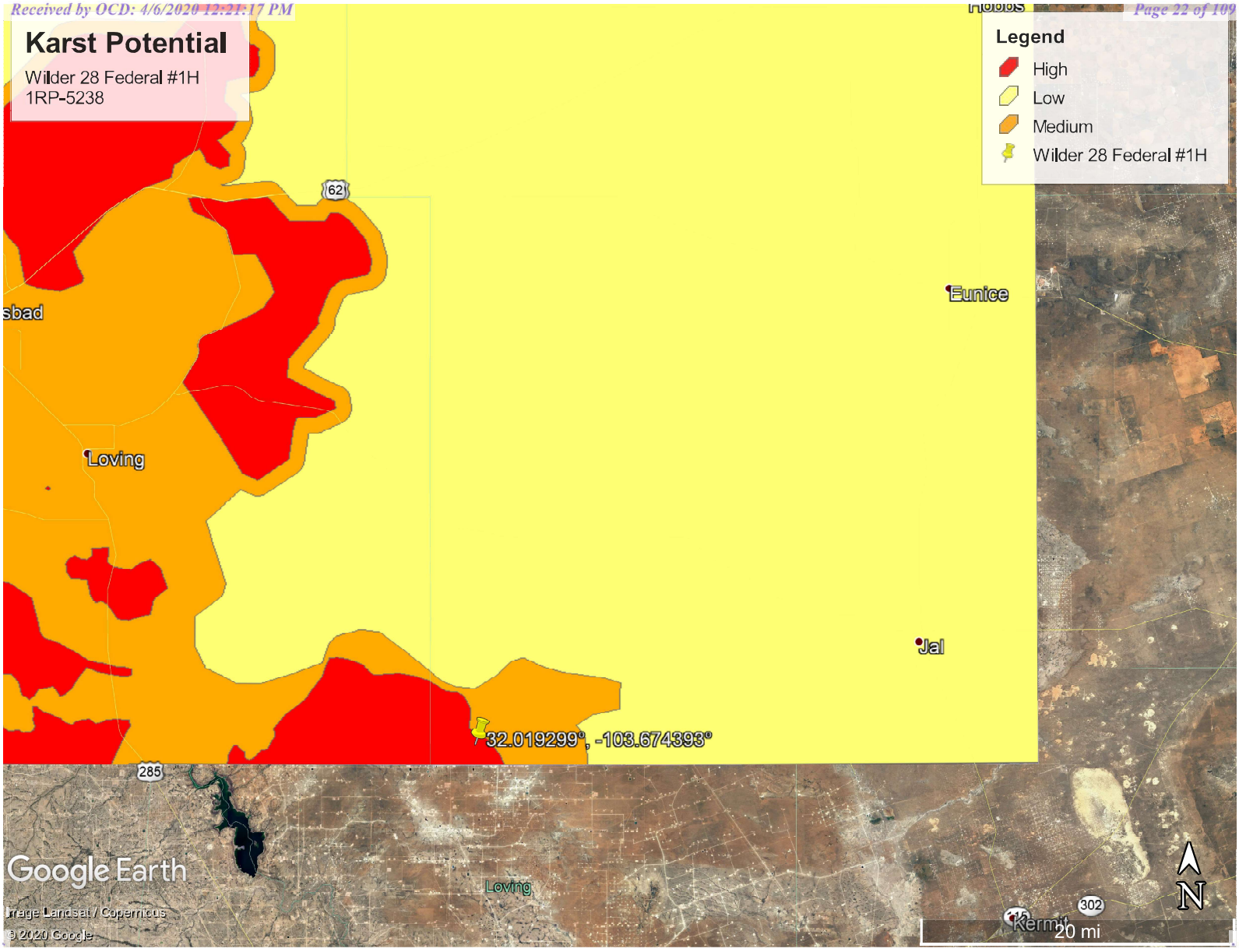
Maximum Depth: **405 feet**

Record Count: 9

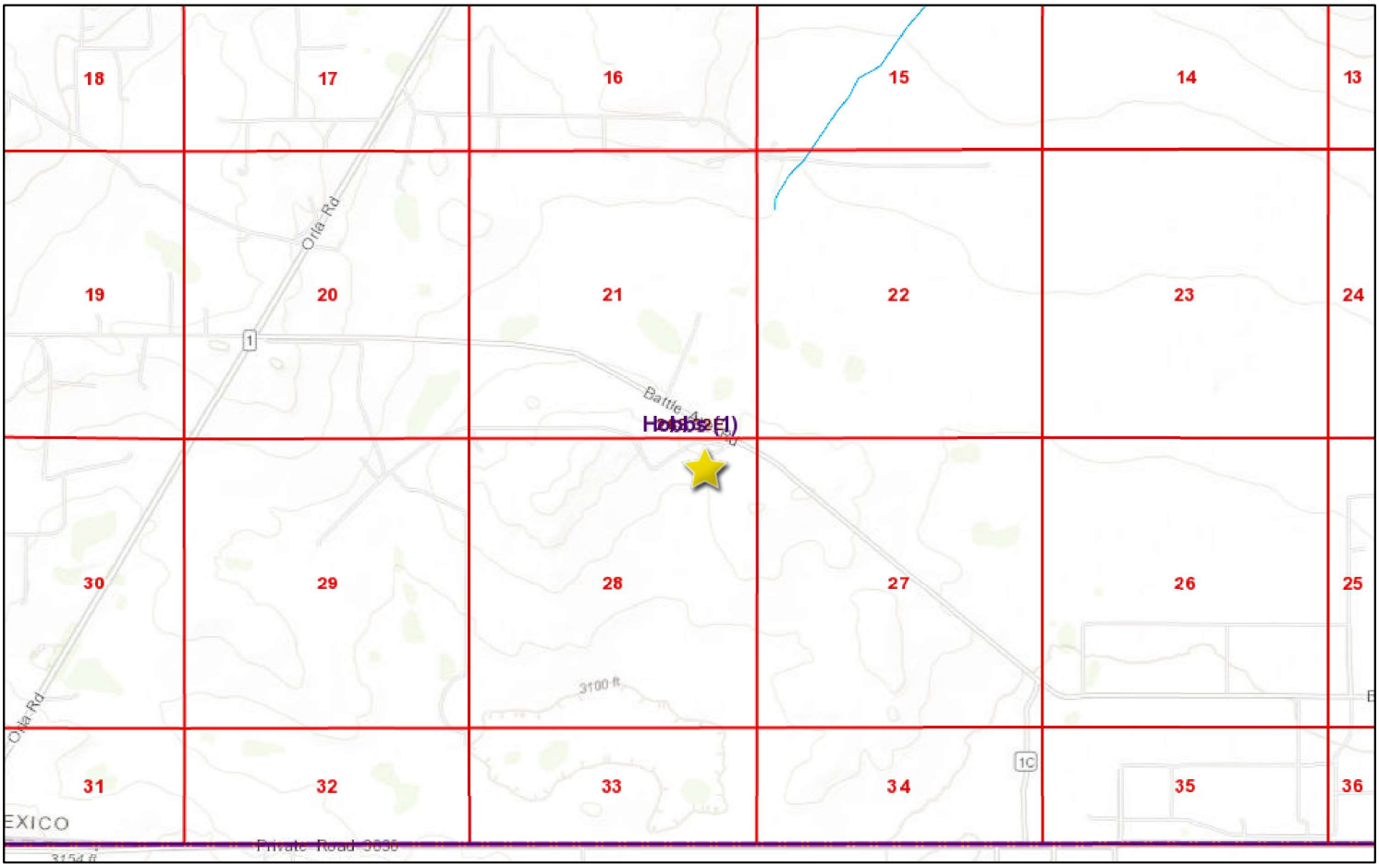
PLSS Search:

Township: 26S **Range:** 32E

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


Karst Potential
Wilder 28 Federal #1H
1RP-5238
Legend
High
Low
Medium
Wilder 28 Federal #1H
62
Eunice
Loving
Jal
32.019299°, -103.674393°
285
Google Earth
Loving
302
20 mi
N

Water Bodies



2/19/2020, 12:10:29 PM

1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

Wilder 28 Federal #1H

OCD Districts

OCD District Offices

PLSS First Division

PLSS Second Division

PLSS Townships

OSE Water-bodies

PLJV Probable Playas

OSE Streams

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

February 24, 2020

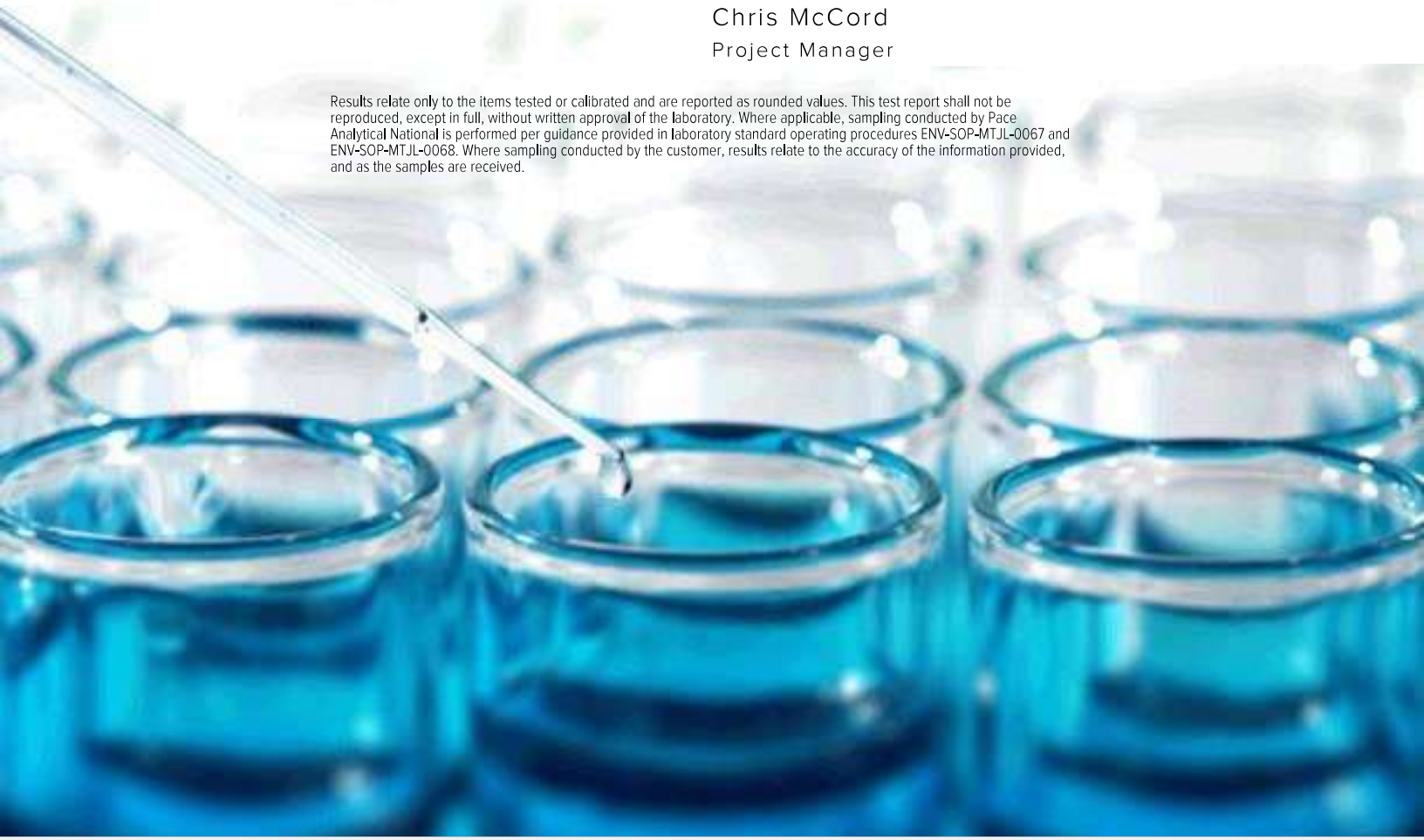
ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1189076
Samples Received:	02/13/2020
Project Number:	212C-MD-02031
Description:	COP Wilder 28-1 Dumping

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

Entire Report Reviewed By:

Chris McCord
Project Manager



BH-1 (0-1') L1189076-01 Solid

Collected by | Collected date/time 02/04/20 12:00 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427899	1	02/14/20 22:50	02/14/20 22:57	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 15:46	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1427939	1	02/13/20 22:59	02/14/20 18:36	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 11:22	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 19:20	JDG	Mt. Juliet, TN

BH-1 (2-3') L1189076-02 Solid

Collected by | Collected date/time 02/04/20 12:05 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427899	1	02/14/20 22:50	02/14/20 22:57	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 15:55	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 12:45	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 11:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 19:37	JDG	Mt. Juliet, TN

BH-1 (4-5') L1189076-03 Solid

Collected by | Collected date/time 02/04/20 12:10 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427899	1	02/14/20 22:50	02/14/20 22:57	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 16:05	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 13:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 12:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 19:54	JDG	Mt. Juliet, TN

BH-1 (6-7') L1189076-04 Solid

Collected by | Collected date/time 02/04/20 12:15 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427899	1	02/14/20 22:50	02/14/20 22:57	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 16:24	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 13:26	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 12:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 20:08	JDG	Mt. Juliet, TN

BH-1 (9-10') L1189076-05 Solid

Collected by | Collected date/time 02/04/20 12:20 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427899	1	02/14/20 22:50	02/14/20 22:57	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 16:33	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 13:46	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 12:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 20:25	JDG	Mt. Juliet, TN

BH-2 (0-1') L1189076-06 Solid

Collected by | Collected date/time 02/04/20 12:30 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427902	1	02/14/20 18:52	02/14/20 19:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 16:43	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 14:07	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 12:56	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 20:40	JDG	Mt. Juliet, TN

BH-2 (2-3') L1189076-07 Solid

Collected by | Collected date/time 02/04/20 12:35 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427902	1	02/14/20 18:52	02/14/20 19:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 17:11	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1429393	1	02/13/20 22:59	02/18/20 11:49	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 13:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 21:29	JDG	Mt. Juliet, TN

BH-2 (4-5') L1189076-08 Solid

Collected by | Collected date/time 02/04/20 12:40 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427902	1	02/14/20 18:52	02/14/20 19:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 17:21	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 14:48	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 13:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 21:46	JDG	Mt. Juliet, TN

BH-2 (6-7') L1189076-09 Solid

Collected by | Collected date/time 02/04/20 12:45 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427902	1	02/14/20 18:52	02/14/20 19:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 17:30	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 15:08	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 13:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 22:01	JDG	Mt. Juliet, TN

BH-3 (0-1') L1189076-10 Solid

Collected by | Collected date/time 02/04/20 13:00 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427902	1	02/14/20 18:52	02/14/20 19:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 17:40	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 15:29	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 14:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 22:18	JDG	Mt. Juliet, TN

Cp Tc Ss Cn Sr Qc Gl Al Sc

BH-3 (2-3') L1189076-11 Solid

Collected by | Collected date/time 02/04/20 13:05 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427902	1	02/14/20 18:52	02/14/20 19:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 17:50	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 15:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 14:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 22:34	JDG	Mt. Juliet, TN

BH-3 (4-5') L1189076-12 Solid

Collected by | Collected date/time 02/04/20 13:10 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427902	1	02/14/20 18:52	02/14/20 19:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 18:18	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 16:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 14:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 22:51	JDG	Mt. Juliet, TN

BH-3 (6-7') L1189076-13 Solid

Collected by | Collected date/time 02/04/20 13:15 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427902	1	02/14/20 18:52	02/14/20 19:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 18:28	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 16:31	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 15:09	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 23:08	JDG	Mt. Juliet, TN

BH-4 (0-1') L1189076-14 Solid

Collected by | Collected date/time 02/04/20 13:30 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427902	1	02/14/20 18:52	02/14/20 19:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 18:37	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 16:51	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 15:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 23:24	JDG	Mt. Juliet, TN

BH-4 (2-3') L1189076-15 Solid

Collected by | Collected date/time 02/04/20 13:35 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427902	1	02/14/20 18:52	02/14/20 19:03	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 19:06	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 17:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 15:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 23:41	JDG	Mt. Juliet, TN

BH-4 (4-5') L1189076-16 Solid

Collected by | Collected date/time 02/04/20 13:40 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427903	1	02/14/20 18:35	02/14/20 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 19:15	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 17:32	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 16:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/14/20 23:58	JDG	Mt. Juliet, TN

BH-4 (6-7') L1189076-17 Solid

Collected by | Collected date/time 02/04/20 13:45 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427903	1	02/14/20 18:35	02/14/20 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 19:25	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 17:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 17:01	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/15/20 00:14	JDG	Mt. Juliet, TN

BH-5 (0-1') L1189076-18 Solid

Collected by | Collected date/time 02/04/20 13:00 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427903	1	02/14/20 18:35	02/14/20 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 19:34	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 18:14	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 17:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/15/20 00:31	JDG	Mt. Juliet, TN

BH-5 (2-3') L1189076-19 Solid

Collected by | Collected date/time 02/04/20 13:05 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427903	1	02/14/20 18:35	02/14/20 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429466	1	02/18/20 13:58	02/18/20 19:53	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 18:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 17:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/15/20 00:47	JDG	Mt. Juliet, TN

BH-5 (4-5') L1189076-20 Solid

Collected by | Collected date/time 02/04/20 13:10 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427903	1	02/14/20 18:35	02/14/20 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 19:54	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428015	1	02/13/20 22:59	02/14/20 18:55	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1427887	1	02/13/20 22:59	02/14/20 17:57	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1427771	1	02/14/20 07:17	02/15/20 01:04	JDG	Mt. Juliet, TN

BH-5 (6-7') L1189076-21 Solid

Collected by | Collected date/time 02/04/20 13:15 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427903	1	02/14/20 18:35	02/14/20 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 20:12	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 14:53	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 12:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428660	1	02/15/20 19:29	02/16/20 01:08	KME	Mt. Juliet, TN

BH-6 (0-1') L1189076-22 Solid

Collected by | Collected date/time 02/07/20 10:00 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427903	1	02/14/20 18:35	02/14/20 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 20:22	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 15:16	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 12:39	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428660	1	02/15/20 19:29	02/16/20 01:21	KME	Mt. Juliet, TN

BH-6 (2-3') L1189076-23 Solid

Collected by | Collected date/time 02/07/20 10:05 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427903	1	02/14/20 18:35	02/14/20 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 20:31	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 15:40	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 12:58	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428660	1	02/15/20 19:29	02/16/20 01:34	KME	Mt. Juliet, TN

BH-6 (4-5') L1189076-24 Solid

Collected by | Collected date/time 02/07/20 10:10 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427903	1	02/14/20 18:35	02/14/20 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 20:41	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 16:03	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 13:17	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428660	1	02/15/20 19:29	02/16/20 09:40	KME	Mt. Juliet, TN

BH-6 (6-7') L1189076-25 Solid

Collected by | Collected date/time 02/07/20 10:15 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427903	1	02/14/20 18:35	02/14/20 18:47	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 20:50	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 16:27	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 13:36	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428660	1	02/15/20 19:29	02/16/20 02:01	KME	Mt. Juliet, TN

Cp Tc Ss Cn Sr Qc Gl Al Sc

BH-6 (9-10') L1189076-26 Solid

Collected by | Collected date/time 02/07/20 10:20 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427904	1	02/14/20 18:19	02/14/20 18:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	.8928571	02/19/20 17:40	02/19/20 21:00	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 16:51	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 13:55	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428660	1	02/15/20 19:29	02/16/20 02:14	KME	Mt. Juliet, TN

BH-7 (0-1') L1189076-27 Solid

Collected by | Collected date/time 02/07/20 11:00 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427904	1	02/14/20 18:19	02/14/20 18:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 21:28	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 17:15	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 14:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428660	1	02/15/20 19:29	02/16/20 02:27	KME	Mt. Juliet, TN

BH-7 (2-3') L1189076-28 Solid

Collected by | Collected date/time 02/07/20 11:05 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427904	1	02/14/20 18:19	02/14/20 18:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 21:38	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 17:54	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 14:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428660	1	02/15/20 19:29	02/16/20 02:41	KME	Mt. Juliet, TN

BH-7 (4-5') L1189076-29 Solid

Collected by | Collected date/time 02/07/20 11:10 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427904	1	02/14/20 18:19	02/14/20 18:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 21:47	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 18:18	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 14:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428660	1	02/15/20 19:29	02/16/20 09:01	KME	Mt. Juliet, TN

BH-7 (6-7') L1189076-30 Solid

Collected by | Collected date/time 02/07/20 11:15 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427904	1	02/14/20 18:19	02/14/20 18:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 21:57	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 19:06	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 15:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428660	1	02/15/20 19:29	02/16/20 03:34	KME	Mt. Juliet, TN

BH-8 (0-1') L1189076-31 Solid

Collected by | Collected date/time 02/07/20 11:20 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427904	1	02/14/20 18:19	02/14/20 18:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 22:07	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 19:30	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 15:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428660	1	02/15/20 19:29	02/16/20 03:47	KME	Mt. Juliet, TN

BH-8 (2-3') L1189076-32 Solid

Collected by | Collected date/time 02/07/20 12:05 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427904	1	02/14/20 18:19	02/14/20 18:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 22:16	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 19:54	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 15:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428883	1	02/17/20 06:21	02/17/20 15:08	KME	Mt. Juliet, TN

BH-8 (4-5') L1189076-33 Solid

Collected by | Collected date/time 02/07/20 12:10 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427904	1	02/14/20 18:19	02/14/20 18:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 22:45	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 20:18	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 16:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428883	1	02/17/20 06:21	02/17/20 15:20	KME	Mt. Juliet, TN

BH-8 (6-7') L1189076-34 Solid

Collected by | Collected date/time 02/07/20 12:15 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427904	1	02/14/20 18:19	02/14/20 18:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 22:54	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 20:42	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428016	1	02/14/20 08:27	02/14/20 16:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428883	1	02/17/20 06:21	02/17/20 15:33	KME	Mt. Juliet, TN

BH-9 (0-1') L1189076-35 Solid

Collected by | Collected date/time 02/07/20 13:00 | Received date/time 02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427904	1	02/14/20 18:19	02/14/20 18:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 23:23	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 21:58	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428051	1	02/14/20 08:27	02/14/20 15:07	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428883	1	02/17/20 06:21	02/17/20 17:15	KME	Mt. Juliet, TN

Cp Tc Ss Cn Sr Qc Gl Al Sc

BH-9 (2-3') L1189076-36 Solid

	Collected by	Collected date/time	Received date/time
		02/07/20 13:05	02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427905	1	02/19/20 09:29	02/19/20 09:41	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 23:32	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 22:22	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428051	1	02/14/20 08:27	02/14/20 15:27	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428883	1	02/17/20 06:21	02/17/20 16:49	KME	Mt. Juliet, TN

BH-9 (4-5') L1189076-37 Solid

	Collected by	Collected date/time	Received date/time
		02/07/20 13:10	02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427905	1	02/19/20 09:29	02/19/20 09:41	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 23:42	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 22:46	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428051	1	02/14/20 08:27	02/14/20 15:47	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428883	1	02/17/20 06:21	02/17/20 15:46	KME	Mt. Juliet, TN

BH-9 (6-7') L1189076-38 Solid

	Collected by	Collected date/time	Received date/time
		02/07/20 13:20	02/13/20 09:40

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1427905	1	02/19/20 09:29	02/19/20 09:41	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1429584	1	02/19/20 17:40	02/19/20 23:51	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1428117	1	02/14/20 08:27	02/14/20 23:10	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1428051	1	02/14/20 08:27	02/14/20 16:07	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1428883	1	02/17/20 06:21	02/17/20 15:59	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

BH-1 (0-1)
Collected date/time: 02/04/20 12:00

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.3		1	02/14/2020 22:57	WG1427899

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	816		0.966	12.2	1	02/18/2020 15:46	WG1429466

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	0.0311	B J	0.0264	0.122	1	02/14/2020 18:36	WG1427939
(S) a,a,a-Trifluorotoluene(FID)	*95.5*			*77.0-120*		*02/14/2020 18:36*	WG1427939

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	0.000486	J	0.000486	0.00122	1	02/14/2020 11:22	WG1427887
Toluene	0.00425	J	0.00152	0.00608	1	02/14/2020 11:22	WG1427887
Ethylbenzene	0.00182	J	0.000644	0.00304	1	02/14/2020 11:22	WG1427887
Total Xylenes	0.0123		0.00581	0.00790	1	02/14/2020 11:22	WG1427887
(S) Toluene-d8	*102*			*75.0-131*		*02/14/2020 11:22*	WG1427887
(S) 4-Bromofluorobenzene	*90.8*			*67.0-138*		*02/14/2020 11:22*	WG1427887
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*		*02/14/2020 11:22*	WG1427887

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		1.96	4.86	1	02/14/2020 19:20	WG1427771
C28-C40 Oil Range	0.892	B J	0.333	4.86	1	02/14/2020 19:20	WG1427771
(S) o-Terphenyl	*52.8*			*18.0-148*		*02/14/2020 19:20*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.7		1	02/14/2020 22:57	WG1427899

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	359		0.839	10.6	1	02/18/2020 15:55	WG1429466

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	0.0430	B J	0.0229	0.106	1	02/14/2020 12:45	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*88.1*			*77.0-120*		*02/14/2020 12:45*	WG1428015

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		0.000422	0.00106	1	02/14/2020 11:41	WG1427887
Toluene	0.00158	J	0.00132	0.00528	1	02/14/2020 11:41	WG1427887
Ethylbenzene	0.000713	J	0.000559	0.00264	1	02/14/2020 11:41	WG1427887
Total Xylenes	U		0.00505	0.00686	1	02/14/2020 11:41	WG1427887
(S) Toluene-d8	*104*			*75.0-131*		*02/14/2020 11:41*	WG1427887
(S) 4-Bromofluorobenzene	*88.8*			*67.0-138*		*02/14/2020 11:41*	WG1427887
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*02/14/2020 11:41*	WG1427887

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	1.97	J	1.70	4.22	1	02/14/2020 19:37	WG1427771
C28-C40 Oil Range	5.66	B	0.289	4.22	1	02/14/2020 19:37	WG1427771
(S) o-Terphenyl	*68.9*			*18.0-148*		*02/14/2020 19:37*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	02/14/2020 22:57	WG1427899

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	78.4		0.869	10.9	1	02/18/2020 16:05	WG1429466

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	0.0453	B J	0.0237	0.109	1	02/14/2020 13:05	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*88.8*			*77.0-120*		*02/14/2020 13:05*	WG1428015

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		0.000437	0.00109	1	02/14/2020 12:00	WG1427887
Toluene	0.00178	J	0.00137	0.00547	1	02/14/2020 12:00	WG1427887
Ethylbenzene	U		0.000579	0.00273	1	02/14/2020 12:00	WG1427887
Total Xylenes	U		0.00523	0.00711	1	02/14/2020 12:00	WG1427887
(S) Toluene-d8	*100*			*75.0-131*		*02/14/2020 12:00*	WG1427887
(S) 4-Bromofluorobenzene	*87.6*			*67.0-138*		*02/14/2020 12:00*	WG1427887
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*02/14/2020 12:00*	WG1427887

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	1.95	J	1.76	4.37	1	02/14/2020 19:54	WG1427771
C28-C40 Oil Range	4.33	B J	0.300	4.37	1	02/14/2020 19:54	WG1427771
(S) o-Terphenyl	*74.6*			*18.0-148*		*02/14/2020 19:54*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	02/14/2020 22:57	WG1427899

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	366		0.912	11.5	1	02/18/2020 16:24	WG1429466

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	0.0454	B J	0.0249	0.115	1	02/14/2020 13:26	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*88.4*			*77.0-120*		*02/14/2020 13:26*	WG1428015

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		0.000459	0.00115	1	02/14/2020 12:19	WG1427887
Toluene	0.00226	J	0.00143	0.00574	1	02/14/2020 12:19	WG1427887
Ethylbenzene	U		0.000608	0.00287	1	02/14/2020 12:19	WG1427887
Total Xylenes	U		0.00549	0.00746	1	02/14/2020 12:19	WG1427887
(S) Toluene-d8	*105*			*75.0-131*		*02/14/2020 12:19*	WG1427887
(S) 4-Bromofluorobenzene	*90.7*			*67.0-138*		*02/14/2020 12:19*	WG1427887
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*02/14/2020 12:19*	WG1427887

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	1.95	J	1.85	4.59	1	02/14/2020 20:08	WG1427771
C28-C40 Oil Range	3.47	B J	0.314	4.59	1	02/14/2020 20:08	WG1427771
(S) o-Terphenyl	*69.6*			*18.0-148*		*02/14/2020 20:08*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.4		1	02/14/2020 22:57	WG1427899

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	414		0.842	10.6	1	02/18/2020 16:33	WG1429466

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	0.0374	B J	0.0230	0.106	1	02/14/2020 13:46	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*89.6*			*77.0-120*		*02/14/2020 13:46*	WG1428015

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		0.000424	0.00106	1	02/14/2020 12:38	WG1427887
Toluene	0.00159	J	0.00132	0.00530	1	02/14/2020 12:38	WG1427887
Ethylbenzene	U		0.000562	0.00265	1	02/14/2020 12:38	WG1427887
Total Xylenes	U		0.00507	0.00689	1	02/14/2020 12:38	WG1427887
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2020 12:38*	WG1427887
(S) 4-Bromofluorobenzene	*88.6*			*67.0-138*		*02/14/2020 12:38*	WG1427887
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*02/14/2020 12:38*	WG1427887

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	02/14/2020 20:25	WG1427771
C28-C40 Oil Range	2.35	B J	0.290	4.24	1	02/14/2020 20:25	WG1427771
(S) o-Terphenyl	*73.2*			*18.0-148*		*02/14/2020 20:25*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.8		1	02/14/2020 19:03	WG1427902

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	63.4		0.984	12.4	1	02/18/2020 16:43	WG1429466

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	0.0479	B J	0.0268	0.124	1	02/14/2020 14:07	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*89.5*			*77.0-120*		*02/14/2020 14:07*	WG1428015

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	0.00124	1	02/14/2020 12:56	WG1427887
Toluene	0.00217	J	0.00155	0.00619	1	02/14/2020 12:56	WG1427887
Ethylbenzene	U		0.000656	0.00309	1	02/14/2020 12:56	WG1427887
Total Xylenes	U		0.00591	0.00804	1	02/14/2020 12:56	WG1427887
(S) Toluene-d8	*104*			*75.0-131*		*02/14/2020 12:56*	WG1427887
(S) 4-Bromofluorobenzene	*86.7*			*67.0-138*		*02/14/2020 12:56*	WG1427887
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*02/14/2020 12:56*	WG1427887

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		1.99	4.95	1	02/14/2020 20:40	WG1427771
C28-C40 Oil Range	1.70	B J	0.339	4.95	1	02/14/2020 20:40	WG1427771
(S) o-Terphenyl	*45.7*			*18.0-148*		*02/14/2020 20:40*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.9		1	02/14/2020 19:03	WG1427902

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	32.7	B	0.983	12.4	1	02/18/2020 17:11	WG1429466

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		0.0268	0.124	1	02/18/2020 11:49	WG1429393
(S) a,a,a-Trifluorotoluene(FID)	*98.5*			*77.0-120*		*02/18/2020 11:49*	WG1429393

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	0.000618	J	0.000494	0.00124	1	02/14/2020 13:15	WG1427887
Toluene	U		0.00155	0.00618	1	02/14/2020 13:15	WG1427887
Ethylbenzene	U		0.000655	0.00309	1	02/14/2020 13:15	WG1427887
Total Xylenes	U		0.00591	0.00803	1	02/14/2020 13:15	WG1427887
(S) Toluene-d8	*104*			*75.0-131*		*02/14/2020 13:15*	WG1427887
(S) 4-Bromofluorobenzene	*89.9*			*67.0-138*		*02/14/2020 13:15*	WG1427887
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*02/14/2020 13:15*	WG1427887

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		1.99	4.94	1	02/14/2020 21:29	WG1427771
C28-C40 Oil Range	6.66	B	0.339	4.94	1	02/14/2020 21:29	WG1427771
(S) o-Terphenyl	*56.6*			*18.0-148*		*02/14/2020 21:29*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.6		1	02/14/2020 19:03	WG1427902

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	73.3		0.929	11.7	1	02/18/2020 17:21	WG1429466

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	0.0513	B J	0.0253	0.117	1	02/14/2020 14:48	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*88.4*			*77.0-120*		*02/14/2020 14:48*	WG1428015

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		0.000467	0.00117	1	02/14/2020 13:34	WG1427887
Toluene	0.00167	J	0.00146	0.00584	1	02/14/2020 13:34	WG1427887
Ethylbenzene	U		0.000619	0.00292	1	02/14/2020 13:34	WG1427887
Total Xylenes	U		0.00558	0.00759	1	02/14/2020 13:34	WG1427887
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2020 13:34*	WG1427887
(S) 4-Bromofluorobenzene	*86.8*			*67.0-138*		*02/14/2020 13:34*	WG1427887
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*02/14/2020 13:34*	WG1427887

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		1.88	4.67	1	02/14/2020 21:46	WG1427771
C28-C40 Oil Range	1.38	B J	0.320	4.67	1	02/14/2020 21:46	WG1427771
(S) o-Terphenyl	*69.6*			*18.0-148*		*02/14/2020 21:46*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.2		1	02/14/2020 19:03	WG1427902

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	60.9		0.818	10.3	1	02/18/2020 17:30	WG1429466

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	0.0373	B J	0.0223	0.103	1	02/14/2020 15:08	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*90.1*			*77.0-120*		*02/14/2020 15:08*	WG1428015

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		0.000412	0.00103	1	02/14/2020 13:53	WG1427887
Toluene	0.00132	J	0.00129	0.00514	1	02/14/2020 13:53	WG1427887
Ethylbenzene	U		0.000545	0.00257	1	02/14/2020 13:53	WG1427887
Total Xylenes	U		0.00492	0.00669	1	02/14/2020 13:53	WG1427887
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2020 13:53*	WG1427887
(S) 4-Bromofluorobenzene	*88.7*			*67.0-138*		*02/14/2020 13:53*	WG1427887
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*02/14/2020 13:53*	WG1427887

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	02/14/2020 22:01	WG1427771
C28-C40 Oil Range	1.07	B J	0.282	4.12	1	02/14/2020 22:01	WG1427771
(S) o-Terphenyl	*74.3*			*18.0-148*		*02/14/2020 22:01*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.8		1	02/14/2020 19:03	WG1427902

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	299		0.847	10.7	1	02/18/2020 17:40	WG1429466

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	0.0409	B J	0.0231	0.107	1	02/14/2020 15:29	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*90.1*			*77.0-120*		*02/14/2020 15:29*	WG1428015

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		0.000426	0.00107	1	02/14/2020 14:12	WG1427887
Toluene	U		0.00133	0.00533	1	02/14/2020 14:12	WG1427887
Ethylbenzene	U		0.000565	0.00266	1	02/14/2020 14:12	WG1427887
Total Xylenes	U		0.00509	0.00693	1	02/14/2020 14:12	WG1427887
(S) Toluene-d8	*102*			*75.0-131*		*02/14/2020 14:12*	WG1427887
(S) 4-Bromofluorobenzene	*85.6*			*67.0-138*		*02/14/2020 14:12*	WG1427887
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*02/14/2020 14:12*	WG1427887

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	4.26	1	02/14/2020 22:18	WG1427771
C28-C40 Oil Range	7.61	B	0.292	4.26	1	02/14/2020 22:18	WG1427771
(S) o-Terphenyl	*65.9*			*18.0-148*		*02/14/2020 22:18*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.1		1	02/14/2020 19:03	WG1427902

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	65.6		0.923	11.6	1	02/18/2020 17:50	WG1429466

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	0.0477	B J	0.0252	0.116	1	02/14/2020 15:50	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*89.0*			*77.0-120*		*02/14/2020 15:50*	WG1428015

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		0.000464	0.00116	1	02/14/2020 14:31	WG1427887
Toluene	0.00163	J	0.00145	0.00580	1	02/14/2020 14:31	WG1427887
Ethylbenzene	U		0.000615	0.00290	1	02/14/2020 14:31	WG1427887
Total Xylenes	U		0.00555	0.00755	1	02/14/2020 14:31	WG1427887
(S) Toluene-d8	*104*			*75.0-131*		*02/14/2020 14:31*	WG1427887
(S) 4-Bromofluorobenzene	*85.6*			*67.0-138*		*02/14/2020 14:31*	WG1427887
(S) 1,2-Dichloroethane-d4	*97.5*			*70.0-130*		*02/14/2020 14:31*	WG1427887

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		1.87	4.64	1	02/14/2020 22:34	WG1427771
C28-C40 Oil Range	4.82	B	0.318	4.64	1	02/14/2020 22:34	WG1427771
(S) o-Terphenyl	*64.4*			*18.0-148*		*02/14/2020 22:34*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.4		1	02/14/2020 19:03	WG1427902

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	215		0.942	11.9	1	02/18/2020 18:18	WG1429466

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	0.0435	B J	0.0257	0.119	1	02/14/2020 16:10	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*88.7*			*77.0-120*		*02/14/2020 16:10*	WG1428015

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		0.000474	0.00119	1	02/14/2020 14:50	WG1427887
Toluene	0.00148	J	0.00148	0.00593	1	02/14/2020 14:50	WG1427887
Ethylbenzene	U		0.000628	0.00296	1	02/14/2020 14:50	WG1427887
Total Xylenes	U		0.00567	0.00771	1	02/14/2020 14:50	WG1427887
(S) Toluene-d8	*104*			*75.0-131*		*02/14/2020 14:50*	WG1427887
(S) 4-Bromofluorobenzene	*88.9*			*67.0-138*		*02/14/2020 14:50*	WG1427887
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*02/14/2020 14:50*	WG1427887

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		1.91	4.74	1	02/14/2020 22:51	WG1427771
C28-C40 Oil Range	5.84	B	0.325	4.74	1	02/14/2020 22:51	WG1427771
(S) o-Terphenyl	*58.8*			*18.0-148*		*02/14/2020 22:51*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	02/14/2020 19:03	WG1427902

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	327		0.876	11.0	1	02/18/2020 18:28	WG1429466

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	0.0420	B J	0.0239	0.110	1	02/14/2020 16:31	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*88.8*			*77.0-120*		*02/14/2020 16:31*	WG1428015

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		0.000441	0.00110	1	02/14/2020 15:09	WG1427887
Toluene	U		0.00138	0.00551	1	02/14/2020 15:09	WG1427887
Ethylbenzene	U		0.000584	0.00275	1	02/14/2020 15:09	WG1427887
Total Xylenes	U		0.00527	0.00716	1	02/14/2020 15:09	WG1427887
(S) Toluene-d8	*105*			*75.0-131*		*02/14/2020 15:09*	WG1427887
(S) 4-Bromofluorobenzene	*89.0*			*67.0-138*		*02/14/2020 15:09*	WG1427887
(S) 1,2-Dichloroethane-d4	*98.8*			*70.0-130*		*02/14/2020 15:09*	WG1427887

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		1.77	4.41	1	02/14/2020 23:08	WG1427771
C28-C40 Oil Range	0.601	B J	0.302	4.41	1	02/14/2020 23:08	WG1427771
(S) o-Terphenyl	*73.9*			*18.0-148*		*02/14/2020 23:08*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.8		1	02/14/2020 19:03	WG1427902

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	54.8		0.847	10.7	1	02/18/2020 18:37	WG1429466

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	0.0386	B J	0.0231	0.107	1	02/14/2020 16:51	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*90.4*			*77.0-120*		*02/14/2020 16:51*	WG1428015

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		0.000426	0.00107	1	02/14/2020 15:28	WG1427887
Toluene	U		0.00133	0.00533	1	02/14/2020 15:28	WG1427887
Ethylbenzene	U		0.000565	0.00266	1	02/14/2020 15:28	WG1427887
Total Xylenes	U		0.00509	0.00693	1	02/14/2020 15:28	WG1427887
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2020 15:28*	WG1427887
(S) 4-Bromofluorobenzene	*86.6*			*67.0-138*		*02/14/2020 15:28*	WG1427887
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*02/14/2020 15:28*	WG1427887

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	4.26	1	02/14/2020 23:24	WG1427771
C28-C40 Oil Range	3.44	B J	0.292	4.26	1	02/14/2020 23:24	WG1427771
(S) o-Terphenyl	*67.6*			*18.0-148*		*02/14/2020 23:24*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.2		1	02/14/2020 19:03	WG1427902

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	76.3		0.967	12.2	1	02/18/2020 19:06	WG1429466

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	0.0264	0.122	1	02/14/2020 17:12	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*88.6*			*77.0-120*		*02/14/2020 17:12*	WG1428015

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		0.000486	0.00122	1	02/14/2020 15:46	WG1427887
Toluene	U		0.00152	0.00608	1	02/14/2020 15:46	WG1427887
Ethylbenzene	U		0.000645	0.00304	1	02/14/2020 15:46	WG1427887
Total Xylenes	U		0.00581	0.00790	1	02/14/2020 15:46	WG1427887
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2020 15:46*	WG1427887
(S) 4-Bromofluorobenzene	*87.3*			*67.0-138*		*02/14/2020 15:46*	WG1427887
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*02/14/2020 15:46*	WG1427887

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		1.96	4.86	1	02/14/2020 23:41	WG1427771
C28-C40 Oil Range	U		0.333	4.86	1	02/14/2020 23:41	WG1427771
(S) o-Terphenyl	*40.2*			*18.0-148*		*02/14/2020 23:41*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	02/14/2020 18:47	WG1427903

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	20.8	B	0.833	10.5	1	02/18/2020 19:15	WG1429466

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	0.0423	B J	0.0227	0.105	1	02/14/2020 17:32	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*88.3*			*77.0-120*		*02/14/2020 17:32*	WG1428015

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		0.000419	0.00105	1	02/14/2020 16:42	WG1427887
Toluene	0.00223	J	0.00131	0.00524	1	02/14/2020 16:42	WG1427887
Ethylbenzene	0.000943	J	0.000556	0.00262	1	02/14/2020 16:42	WG1427887
Total Xylenes	U		0.00501	0.00681	1	02/14/2020 16:42	WG1427887
(S) Toluene-d8	*105*			*75.0-131*		*02/14/2020 16:42*	WG1427887
(S) 4-Bromofluorobenzene	*87.6*			*67.0-138*		*02/14/2020 16:42*	WG1427887
(S) 1,2-Dichloroethane-d4	*97.7*			*70.0-130*		*02/14/2020 16:42*	WG1427887

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	7.65		1.69	4.19	1	02/14/2020 23:58	WG1427771
C28-C40 Oil Range	17.0	B	0.287	4.19	1	02/14/2020 23:58	WG1427771
(S) o-Terphenyl	*64.5*			*18.0-148*		*02/14/2020 23:58*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	02/14/2020 18:47	WG1427903

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	9.20	B J	0.825	10.4	1	02/18/2020 19:25	WG1429466

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	0.0422	B J	0.0225	0.104	1	02/14/2020 17:53	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*89.2*			*77.0-120*		*02/14/2020 17:53*	WG1428015

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		0.000415	0.00104	1	02/14/2020 17:01	WG1427887
Toluene	0.00174	J	0.00130	0.00519	1	02/14/2020 17:01	WG1427887
Ethylbenzene	U		0.000550	0.00259	1	02/14/2020 17:01	WG1427887
Total Xylenes	U		0.00496	0.00675	1	02/14/2020 17:01	WG1427887
(S) Toluene-d8	*105*			*75.0-131*		*02/14/2020 17:01*	WG1427887
(S) 4-Bromofluorobenzene	*86.1*			*67.0-138*		*02/14/2020 17:01*	WG1427887
(S) 1,2-Dichloroethane-d4	*91.3*			*70.0-130*		*02/14/2020 17:01*	WG1427887

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		1.67	4.15	1	02/15/2020 00:14	WG1427771
C28-C40 Oil Range	1.02	B J	0.284	4.15	1	02/15/2020 00:14	WG1427771
(S) o-Terphenyl	*65.2*			*18.0-148*		*02/15/2020 00:14*	WG1427771

Cp
Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.5		1	02/14/2020 18:47	WG1427903

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	38.1		1.00	12.6	1	02/18/2020 19:34	WG1429466

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	0.0491	B J	0.0273	0.126	1	02/14/2020 18:14	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*88.9*			*77.0-120*		*02/14/2020 18:14*	WG1428015

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		0.000503	0.00126	1	02/14/2020 17:19	WG1427887
Toluene	U		0.00157	0.00629	1	02/14/2020 17:19	WG1427887
Ethylbenzene	U		0.000667	0.00314	1	02/14/2020 17:19	WG1427887
Total Xylenes	U		0.00601	0.00818	1	02/14/2020 17:19	WG1427887
(S) Toluene-d8	*107*			*75.0-131*		*02/14/2020 17:19*	WG1427887
(S) 4-Bromofluorobenzene	*86.3*			*67.0-138*		*02/14/2020 17:19*	WG1427887
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*02/14/2020 17:19*	WG1427887

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		2.03	5.03	1	02/15/2020 00:31	WG1427771
C28-C40 Oil Range	0.648	B J	0.345	5.03	1	02/15/2020 00:31	WG1427771
(S) o-Terphenyl	*49.5*			*18.0-148*		*02/15/2020 00:31*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.2		1	02/14/2020 18:47	WG1427903

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	50.9		0.862	10.8	1	02/18/2020 19:53	WG1429466

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	0.0421	B J	0.0235	0.108	1	02/14/2020 18:34	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*88.3*			*77.0-120*		*02/14/2020 18:34*	WG1428015

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		0.000434	0.00108	1	02/14/2020 17:38	WG1427887
Toluene	U		0.00136	0.00542	1	02/14/2020 17:38	WG1427887
Ethylbenzene	U		0.000575	0.00271	1	02/14/2020 17:38	WG1427887
Total Xylenes	U		0.00518	0.00705	1	02/14/2020 17:38	WG1427887
(S) Toluene-d8	*105*			*75.0-131*		*02/14/2020 17:38*	WG1427887
(S) 4-Bromofluorobenzene	*85.9*			*67.0-138*		*02/14/2020 17:38*	WG1427887
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*02/14/2020 17:38*	WG1427887

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		1.75	4.34	1	02/15/2020 00:47	WG1427771
C28-C40 Oil Range	2.23	B J	0.297	4.34	1	02/15/2020 00:47	WG1427771
(S) o-Terphenyl	*69.8*			*18.0-148*		*02/15/2020 00:47*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.0		1	02/14/2020 18:47	WG1427903

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	562		0.883	11.1	1	02/19/2020 19:54	WG1429584

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	0.0435	B J	0.0241	0.111	1	02/14/2020 18:55	WG1428015
(S) a,a,a-Trifluorotoluene(FID)	*88.6*			*77.0-120*		*02/14/2020 18:55*	WG1428015

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		0.000444	0.00111	1	02/14/2020 17:57	WG1427887
Toluene	U		0.00139	0.00555	1	02/14/2020 17:57	WG1427887
Ethylbenzene	U		0.000589	0.00278	1	02/14/2020 17:57	WG1427887
Total Xylenes	U		0.00531	0.00722	1	02/14/2020 17:57	WG1427887
(S) Toluene-d8	*107*			*75.0-131*		*02/14/2020 17:57*	WG1427887
(S) 4-Bromofluorobenzene	*88.1*			*67.0-138*		*02/14/2020 17:57*	WG1427887
(S) 1,2-Dichloroethane-d4	*99.0*			*70.0-130*		*02/14/2020 17:57*	WG1427887

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		1.79	4.44	1	02/15/2020 01:04	WG1427771
C28-C40 Oil Range	2.07	B J	0.304	4.44	1	02/15/2020 01:04	WG1427771
(S) o-Terphenyl	*66.7*			*18.0-148*		*02/15/2020 01:04*	WG1427771

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.5		1	02/14/2020 18:47	WG1427903

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	499		0.841	10.6	1	02/19/2020 20:12	WG1429584

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	02/14/2020 14:53	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*97.7*			*77.0-120*		*02/14/2020 14:53*	WG1428117

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	0.000556	J	0.000423	0.00106	1	02/14/2020 12:20	WG1428016
Toluene	U		0.00132	0.00529	1	02/14/2020 12:20	WG1428016
Ethylbenzene	U		0.000561	0.00265	1	02/14/2020 12:20	WG1428016
Total Xylenes	U		0.00506	0.00688	1	02/14/2020 12:20	WG1428016
(S) Toluene-d8	*104*			*75.0-131*		*02/14/2020 12:20*	WG1428016
(S) 4-Bromofluorobenzene	*90.8*			*67.0-138*		*02/14/2020 12:20*	WG1428016
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*		*02/14/2020 12:20*	WG1428016

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	02/16/2020 01:08	WG1428660
C28-C40 Oil Range	1.27	J	0.290	4.23	1	02/16/2020 01:08	WG1428660
(S) o-Terphenyl	*59.9*			*18.0-148*		*02/16/2020 01:08*	WG1428660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	02/14/2020 18:47	WG1427903

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		0.963	12.1	1	02/19/2020 20:22	WG1429584

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		0.0263	0.121	1	02/14/2020 15:16	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*77.0-120*		*02/14/2020 15:16*	WG1428117

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	0.00121	1	02/14/2020 12:39	WG1428016
Toluene	U		0.00151	0.00606	1	02/14/2020 12:39	WG1428016
Ethylbenzene	U		0.000642	0.00303	1	02/14/2020 12:39	WG1428016
Total Xylenes	U		0.00579	0.00787	1	02/14/2020 12:39	WG1428016
(S) Toluene-d8	*104*			*75.0-131*		*02/14/2020 12:39*	WG1428016
(S) 4-Bromofluorobenzene	*85.1*			*67.0-138*		*02/14/2020 12:39*	WG1428016
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*02/14/2020 12:39*	WG1428016

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	2.82	J	1.95	4.84	1	02/16/2020 01:21	WG1428660
C28-C40 Oil Range	10.4		0.332	4.84	1	02/16/2020 01:21	WG1428660
(S) o-Terphenyl	*57.2*			*18.0-148*		*02/16/2020 01:21*	WG1428660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.8		1	02/14/2020 18:47	WG1427903

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	60.8		0.866	10.9	1	02/19/2020 20:31	WG1429584

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0237	0.109	1	02/14/2020 15:40	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-120*		*02/14/2020 15:40*	WG1428117

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		0.000436	0.00109	1	02/14/2020 12:58	WG1428016
Toluene	U		0.00136	0.00545	1	02/14/2020 12:58	WG1428016
Ethylbenzene	U		0.000578	0.00272	1	02/14/2020 12:58	WG1428016
Total Xylenes	U		0.00521	0.00708	1	02/14/2020 12:58	WG1428016
(S) Toluene-d8	*103*			*75.0-131*		*02/14/2020 12:58*	WG1428016
(S) 4-Bromofluorobenzene	*88.1*			*67.0-138*		*02/14/2020 12:58*	WG1428016
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*02/14/2020 12:58*	WG1428016

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		1.75	4.36	1	02/16/2020 01:34	WG1428660
C28-C40 Oil Range	3.61	J	0.299	4.36	1	02/16/2020 01:34	WG1428660
(S) o-Terphenyl	*67.2*			*18.0-148*		*02/16/2020 01:34*	WG1428660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.4		1	02/14/2020 18:47	WG1427903

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	50.4		0.861	10.8	1	02/19/2020 20:41	WG1429584

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	02/14/2020 16:03	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*98.1*			*77.0-120*		*02/14/2020 16:03*	WG1428117

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		0.000433	0.00108	1	02/14/2020 13:17	WG1428016
Toluene	U		0.00135	0.00541	1	02/14/2020 13:17	WG1428016
Ethylbenzene	U		0.000574	0.00271	1	02/14/2020 13:17	WG1428016
Total Xylenes	U		0.00517	0.00704	1	02/14/2020 13:17	WG1428016
(S) Toluene-d8	*104*			*75.0-131*		*02/14/2020 13:17*	WG1428016
(S) 4-Bromofluorobenzene	*83.9*			*67.0-138*		*02/14/2020 13:17*	WG1428016
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*02/14/2020 13:17*	WG1428016

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		1.74	4.33	1	02/16/2020 09:40	WG1428660
C28-C40 Oil Range	0.444	J	0.297	4.33	1	02/16/2020 09:40	WG1428660
(S) o-Terphenyl	*59.5*			*18.0-148*		*02/16/2020 09:40*	WG1428660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.3		1	02/14/2020 18:47	WG1427903

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	44.3		0.871	11.0	1	02/19/2020 20:50	WG1429584

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0238	0.110	1	02/14/2020 16:27	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-120*		*02/14/2020 16:27*	WG1428117

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		0.000438	0.00110	1	02/14/2020 13:36	WG1428016
Toluene	U		0.00137	0.00548	1	02/14/2020 13:36	WG1428016
Ethylbenzene	U		0.000580	0.00274	1	02/14/2020 13:36	WG1428016
Total Xylenes	U		0.00524	0.00712	1	02/14/2020 13:36	WG1428016
(S) Toluene-d8	*106*			*75.0-131*		*02/14/2020 13:36*	WG1428016
(S) 4-Bromofluorobenzene	*86.0*			*67.0-138*		*02/14/2020 13:36*	WG1428016
(S) 1,2-Dichloroethane-d4	*94.3*			*70.0-130*		*02/14/2020 13:36*	WG1428016

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.76	4.38	1	02/16/2020 02:01	WG1428660
C28-C40 Oil Range	U		0.300	4.38	1	02/16/2020 02:01	WG1428660
(S) o-Terphenyl	*56.9*			*18.0-148*		*02/16/2020 02:01*	WG1428660

BH-6 (9-10)
Collected date/time: 02/07/20 10:20

ONE LAB. NATIONWIDE.

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.6		1	02/14/2020 18:32	WG1427904

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	31.8		0.759	9.54	.8928571	02/19/2020 21:00	WG1429584

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	02/14/2020 16:51	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*02/14/2020 16:51*	WG1428117

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		0.000428	0.00107	1	02/14/2020 13:55	WG1428016
Toluene	U		0.00134	0.00534	1	02/14/2020 13:55	WG1428016
Ethylbenzene	U		0.000567	0.00267	1	02/14/2020 13:55	WG1428016
Total Xylenes	U		0.00511	0.00695	1	02/14/2020 13:55	WG1428016
(S) Toluene-d8	*107*			*75.0-131*		*02/14/2020 13:55*	WG1428016
(S) 4-Bromofluorobenzene	*86.2*			*67.0-138*		*02/14/2020 13:55*	WG1428016
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*02/14/2020 13:55*	WG1428016

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	02/16/2020 02:14	WG1428660
C28-C40 Oil Range	U		0.293	4.28	1	02/16/2020 02:14	WG1428660
(S) o-Terphenyl	*64.2*			*18.0-148*		*02/16/2020 02:14*	WG1428660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	02/14/2020 18:32	WG1427904

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	5.19	B J	0.820	10.3	1	02/19/2020 21:28	WG1429584

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	02/14/2020 17:15	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*99.4*			*77.0-120*		*02/14/2020 17:15*	WG1428117

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		0.000412	0.00103	1	02/14/2020 14:14	WG1428016
Toluene	U		0.00129	0.00516	1	02/14/2020 14:14	WG1428016
Ethylbenzene	U		0.000546	0.00258	1	02/14/2020 14:14	WG1428016
Total Xylenes	U		0.00493	0.00670	1	02/14/2020 14:14	WG1428016
(S) Toluene-d8	*98.6*			*75.0-131*		*02/14/2020 14:14*	WG1428016
(S) 4-Bromofluorobenzene	*85.1*			*67.0-138*		*02/14/2020 14:14*	WG1428016
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*02/14/2020 14:14*	WG1428016

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	2.07	J	1.66	4.12	1	02/16/2020 02:27	WG1428660
C28-C40 Oil Range	6.42		0.283	4.12	1	02/16/2020 02:27	WG1428660
(S) o-Terphenyl	*67.4*			*18.0-148*		*02/16/2020 02:27*	WG1428660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.2		1	02/14/2020 18:32	WG1427904

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	21.1	B	0.956	12.0	1	02/19/2020 21:38	WG1429584

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		0.0261	0.120	1	02/14/2020 17:54	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*77.0-120*		*02/14/2020 17:54*	WG1428117

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		0.000481	0.00120	1	02/14/2020 14:33	WG1428016
Toluene	U		0.00150	0.00601	1	02/14/2020 14:33	WG1428016
Ethylbenzene	U		0.000637	0.00301	1	02/14/2020 14:33	WG1428016
Total Xylenes	U		0.00575	0.00782	1	02/14/2020 14:33	WG1428016
(S) Toluene-d8	*107*			*75.0-131*		*02/14/2020 14:33*	WG1428016
(S) 4-Bromofluorobenzene	*84.7*			*67.0-138*		*02/14/2020 14:33*	WG1428016
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*02/14/2020 14:33*	WG1428016

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		1.94	4.81	1	02/16/2020 02:41	WG1428660
C28-C40 Oil Range	3.51	J	0.329	4.81	1	02/16/2020 02:41	WG1428660
(S) o-Terphenyl	*54.7*			*18.0-148*		*02/16/2020 02:41*	WG1428660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	02/14/2020 18:32	WG1427904

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	209		0.868	10.9	1	02/19/2020 21:47	WG1429584

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0237	0.109	1	02/14/2020 18:18	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-120*		*02/14/2020 18:18*	WG1428117

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		0.000437	0.00109	1	02/14/2020 14:52	WG1428016
Toluene	U		0.00137	0.00546	1	02/14/2020 14:52	WG1428016
Ethylbenzene	U		0.000579	0.00273	1	02/14/2020 14:52	WG1428016
Total Xylenes	U		0.00522	0.00710	1	02/14/2020 14:52	WG1428016
(S) Toluene-d8	*107*			*75.0-131*		*02/14/2020 14:52*	WG1428016
(S) 4-Bromofluorobenzene	*82.6*			*67.0-138*		*02/14/2020 14:52*	WG1428016
(S) 1,2-Dichloroethane-d4	*95.5*			*70.0-130*		*02/14/2020 14:52*	WG1428016

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.76	4.37	1	02/16/2020 09:01	WG1428660
C28-C40 Oil Range	0.360	J	0.299	4.37	1	02/16/2020 09:01	WG1428660
(S) o-Terphenyl	*73.5*			*18.0-148*		*02/16/2020 09:01*	WG1428660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	02/14/2020 18:32	WG1427904

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	487		0.862	10.8	1	02/19/2020 21:57	WG1429584

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	02/14/2020 19:06	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*02/14/2020 19:06*	WG1428117

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		0.000434	0.00108	1	02/14/2020 15:11	WG1428016
Toluene	U		0.00135	0.00542	1	02/14/2020 15:11	WG1428016
Ethylbenzene	U		0.000574	0.00271	1	02/14/2020 15:11	WG1428016
Total Xylenes	U		0.00518	0.00704	1	02/14/2020 15:11	WG1428016
(S) Toluene-d8	*108*			*75.0-131*		*02/14/2020 15:11*	WG1428016
(S) 4-Bromofluorobenzene	*82.8*			*67.0-138*		*02/14/2020 15:11*	WG1428016
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*02/14/2020 15:11*	WG1428016

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		1.74	4.34	1	02/16/2020 03:34	WG1428660
C28-C40 Oil Range	U		0.297	4.34	1	02/16/2020 03:34	WG1428660
(S) o-Terphenyl	*55.9*			*18.0-148*		*02/16/2020 03:34*	WG1428660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.0		1	02/14/2020 18:32	WG1427904

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	41.8		0.994	12.5	1	02/19/2020 22:07	WG1429584

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		0.0271	0.125	1	02/14/2020 19:30	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-120*		*02/14/2020 19:30*	WG1428117

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		0.000500	0.00125	1	02/14/2020 15:30	WG1428016
Toluene	U		0.00156	0.00625	1	02/14/2020 15:30	WG1428016
Ethylbenzene	U		0.000662	0.00312	1	02/14/2020 15:30	WG1428016
Total Xylenes	U		0.00597	0.00812	1	02/14/2020 15:30	WG1428016
(S) Toluene-d8	*105*			*75.0-131*		*02/14/2020 15:30*	WG1428016
(S) 4-Bromofluorobenzene	*85.5*			*67.0-138*		*02/14/2020 15:30*	WG1428016
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*02/14/2020 15:30*	WG1428016

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		2.01	5.00	1	02/16/2020 03:47	WG1428660
C28-C40 Oil Range	2.65	J	0.342	5.00	1	02/16/2020 03:47	WG1428660
(S) o-Terphenyl	*54.9*			*18.0-148*		*02/16/2020 03:47*	WG1428660

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.3		1	02/14/2020 18:32	WG1427904

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	22.1	B	0.862	10.8	1	02/19/2020 22:16	WG1429584

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	02/14/2020 19:54	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-120*		*02/14/2020 19:54*	WG1428117

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		0.000434	0.00108	1	02/14/2020 15:49	WG1428016
Toluene	U		0.00135	0.00542	1	02/14/2020 15:49	WG1428016
Ethylbenzene	U		0.000574	0.00271	1	02/14/2020 15:49	WG1428016
Total Xylenes	U		0.00518	0.00704	1	02/14/2020 15:49	WG1428016
(S) Toluene-d8	*106*			*75.0-131*		*02/14/2020 15:49*	WG1428016
(S) 4-Bromofluorobenzene	*80.7*			*67.0-138*		*02/14/2020 15:49*	WG1428016
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*02/14/2020 15:49*	WG1428016

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		1.74	4.34	1	02/17/2020 15:08	WG1428883
C28-C40 Oil Range	1.71	B J	0.297	4.34	1	02/17/2020 15:08	WG1428883
(S) o-Terphenyl	*62.7*			*18.0-148*		*02/17/2020 15:08*	WG1428883

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.7		1	02/14/2020 18:32	WG1427904

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	22.3	B	0.887	11.2	1	02/19/2020 22:45	WG1429584

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0242	0.112	1	02/14/2020 20:18	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-120*		*02/14/2020 20:18*	WG1428117

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		0.000446	0.00112	1	02/14/2020 16:08	WG1428016
Toluene	U		0.00139	0.00558	1	02/14/2020 16:08	WG1428016
Ethylbenzene	U		0.000591	0.00279	1	02/14/2020 16:08	WG1428016
Total Xylenes	U		0.00533	0.00725	1	02/14/2020 16:08	WG1428016
(S) Toluene-d8	*97.6*			*75.0-131*		*02/14/2020 16:08*	WG1428016
(S) 4-Bromofluorobenzene	*83.0*			*67.0-138*		*02/14/2020 16:08*	WG1428016
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*02/14/2020 16:08*	WG1428016

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		1.80	4.46	1	02/17/2020 15:20	WG1428883
C28-C40 Oil Range	1.80	B J	0.306	4.46	1	02/17/2020 15:20	WG1428883
(S) o-Terphenyl	*63.8*			*18.0-148*		*02/17/2020 15:20*	WG1428883

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	02/14/2020 18:32	WG1427904

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	28.6	B	0.869	10.9	1	02/19/2020 22:54	WG1429584

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0237	0.109	1	02/14/2020 20:42	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*77.0-120*		*02/14/2020 20:42*	WG1428117

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		0.000437	0.00109	1	02/14/2020 16:27	WG1428016
Toluene	U		0.00137	0.00546	1	02/14/2020 16:27	WG1428016
Ethylbenzene	U		0.000579	0.00273	1	02/14/2020 16:27	WG1428016
Total Xylenes	U		0.00522	0.00710	1	02/14/2020 16:27	WG1428016
(S) Toluene-d8	*97.5*			*75.0-131*		*02/14/2020 16:27*	WG1428016
(S) 4-Bromofluorobenzene	*79.2*			*67.0-138*		*02/14/2020 16:27*	WG1428016
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*		*02/14/2020 16:27*	WG1428016

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.76	4.37	1	02/17/2020 15:33	WG1428883
C28-C40 Oil Range	0.939	B J	0.299	4.37	1	02/17/2020 15:33	WG1428883
(S) o-Terphenyl	*62.3*			*18.0-148*		*02/17/2020 15:33*	WG1428883

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	02/14/2020 18:32	WG1427904

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	10.1	B J	0.824	10.4	1	02/19/2020 23:23	WG1429584

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		0.0225	0.104	1	02/14/2020 21:58	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*77.0-120*		*02/14/2020 21:58*	WG1428117

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		0.000415	0.00104	1	02/14/2020 15:07	WG1428051
Toluene	U		0.00130	0.00519	1	02/14/2020 15:07	WG1428051
Ethylbenzene	U		0.000550	0.00259	1	02/14/2020 15:07	WG1428051
Total Xylenes	U		0.00496	0.00674	1	02/14/2020 15:07	WG1428051
(S) Toluene-d8	*108*			*75.0-131*		*02/14/2020 15:07*	WG1428051
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*02/14/2020 15:07*	WG1428051
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*02/14/2020 15:07*	WG1428051

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	2.54	J	1.67	4.15	1	02/17/2020 17:15	WG1428883
C28-C40 Oil Range	12.7		0.284	4.15	1	02/17/2020 17:15	WG1428883
(S) o-Terphenyl	*62.7*			*18.0-148*		*02/17/2020 17:15*	WG1428883

Cp
Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	02/19/2020 09:41	WG1427905

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	5.67	B J	0.900	11.3	1	02/19/2020 23:32	WG1429584

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		0.0246	0.113	1	02/14/2020 22:22	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*97.7*			*77.0-120*		*02/14/2020 22:22*	WG1428117

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		0.000453	0.00113	1	02/14/2020 15:27	WG1428051
Toluene	U		0.00141	0.00566	1	02/14/2020 15:27	WG1428051
Ethylbenzene	U		0.000600	0.00283	1	02/14/2020 15:27	WG1428051
Total Xylenes	U		0.00541	0.00735	1	02/14/2020 15:27	WG1428051
(S) Toluene-d8	*107*			*75.0-131*		*02/14/2020 15:27*	WG1428051
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*02/14/2020 15:27*	WG1428051
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*02/14/2020 15:27*	WG1428051

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	2.30	J	1.82	4.53	1	02/17/2020 16:49	WG1428883
C28-C40 Oil Range	9.65		0.310	4.53	1	02/17/2020 16:49	WG1428883
(S) o-Terphenyl	*65.5*			*18.0-148*		*02/17/2020 16:49*	WG1428883

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.1		1	02/19/2020 09:41	WG1427905

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	124		0.992	12.5	1	02/19/2020 23:42	WG1429584

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		0.0271	0.125	1	02/14/2020 22:46	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*77.0-120*		*02/14/2020 22:46*	WG1428117

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		0.000499	0.00125	1	02/14/2020 15:47	WG1428051
Toluene	U		0.00156	0.00624	1	02/14/2020 15:47	WG1428051
Ethylbenzene	U		0.000661	0.00312	1	02/14/2020 15:47	WG1428051
Total Xylenes	U		0.00597	0.00811	1	02/14/2020 15:47	WG1428051
(S) Toluene-d8	*107*			*75.0-131*		*02/14/2020 15:47*	WG1428051
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*02/14/2020 15:47*	WG1428051
(S) 1,2-Dichloroethane-d4	*95.6*			*70.0-130*		*02/14/2020 15:47*	WG1428051

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		2.01	4.99	1	02/17/2020 15:46	WG1428883
C28-C40 Oil Range	0.686	B J	0.342	4.99	1	02/17/2020 15:46	WG1428883
(S) o-Terphenyl	*36.9*			*18.0-148*		*02/17/2020 15:46*	WG1428883

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.9		1	02/19/2020 09:41	WG1427905

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	187		0.971	12.2	1	02/19/2020 23:51	WG1429584

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		0.0265	0.122	1	02/14/2020 23:10	WG1428117
(S) a,a,a-Trifluorotoluene(FID)	*98.7*			*77.0-120*		*02/14/2020 23:10*	WG1428117

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	0.00122	1	02/14/2020 16:07	WG1428051
Toluene	U		0.00153	0.00611	1	02/14/2020 16:07	WG1428051
Ethylbenzene	U		0.000647	0.00305	1	02/14/2020 16:07	WG1428051
Total Xylenes	U		0.00584	0.00794	1	02/14/2020 16:07	WG1428051
(S) Toluene-d8	*109*			*75.0-131*		*02/14/2020 16:07*	WG1428051
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*02/14/2020 16:07*	WG1428051
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*02/14/2020 16:07*	WG1428051

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		1.97	4.88	1	02/17/2020 15:59	WG1428883
C28-C40 Oil Range	1.27	B J	0.335	4.88	1	02/17/2020 15:59	WG1428883
(S) o-Terphenyl	*51.1*			*18.0-148*		*02/17/2020 15:59*	WG1428883

Method Blank (MB)

(MB) R3500505-1 02/14/20 22:57

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00500			

L1189074-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1189074-05 02/14/20 22:57 • (DUP) R3500505-3 02/14/20 22:57

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	98.9	98.9	1	0.0390		10

Laboratory Control Sample (LCS)

(LCS) R3500505-2 02/14/20 22:57

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) R3500069-1 02/14/20 19:03

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00300			

L1189076-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1189076-12 02/14/20 19:03 • (DUP) R3500069-3 02/14/20 19:03

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	84.4	84.3	1	0.0255		10

Laboratory Control Sample (LCS)

(LCS) R3500069-2 02/14/20 19:03

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) R3500068-1 02/14/20 18:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00300			

L1189076-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1189076-22 02/14/20 18:47 • (DUP) R3500068-3 02/14/20 18:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	82.6	81.8	1	0.912		10

Laboratory Control Sample (LCS)

(LCS) R3500068-2 02/14/20 18:47

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) R3500067-1 02/14/20 18:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00700			

L1189076-34 Original Sample (OS) • Duplicate (DUP)

(OS) L1189076-34 02/14/20 18:32 • (DUP) R3500067-3 02/14/20 18:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	91.5	91.6	1	0.124		10

Laboratory Control Sample (LCS)

(LCS) R3500067-2 02/14/20 18:32

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) R3501326-1 02/19/20 09:41

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

L1189086-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1189086-01 02/19/20 09:41 • (DUP) R3501326-3 02/19/20 09:41

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	94.8	95.4	1	0.704		10

Laboratory Control Sample (LCS)

(LCS) R3501326-2 02/19/20 09:41

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) R3500942-1 02/18/20 14:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	2.83	J	0.795	10.0

L1189076-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1189076-03 02/18/20 16:05 • (DUP) R3500942-3 02/18/20 16:14

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	78.4	71.8	1	8.73		20

L1189076-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1189076-18 02/18/20 19:34 • (DUP) R3500942-6 02/18/20 19:44

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	38.1	40.9	1	7.10		20

Laboratory Control Sample (LCS)

(LCS) R3500942-2 02/18/20 15:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	190	95.2	90.0-110	

L1189076-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1189076-11 02/18/20 17:50 • (MS) R3500942-4 02/18/20 17:59 • (MSD) R3500942-5 02/18/20 18:09

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	580	65.6	632	625	97.6	96.3	1	80.0-120			1.15	20

Method Blank (MB)

(MB) R3501308-1 02/19/20 18:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	3.14	J	0.795	10.0

L1189076-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1189076-20 02/19/20 19:54 • (DUP) R3501308-3 02/19/20 20:03

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	562	582	1	3.40		20

L1190047-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1190047-01 02/20/20 00:01 • (DUP) R3501308-6 02/20/20 00:10

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	223	234	1	4.81		20

Laboratory Control Sample (LCS)

(LCS) R3501308-2 02/19/20 19:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	193	96.4	90.0-110	

L1189076-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1189076-32 02/19/20 22:16 • (MS) R3501308-4 02/19/20 22:26 • (MSD) R3501308-5 02/19/20 22:35

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	542	22.1	530	535	93.7	94.7	1	80.0-120			1.03	20

Method Blank (MB)

(MB) R3500264-3 02/14/20 11:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0235	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3500264-2 02/14/20 10:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.64	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*111*	*77.0-120*	

L1188679-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1188679-01 02/14/20 12:03 • (MS) R3500264-4 02/14/20 18:56 • (MSD) R3500264-5 02/14/20 19:17

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	112	ND	99.9	111	89.2	99.1	25	10.0-151			10.5	28
(S) a,a,a-Trifluorotoluene(FID)					*110*	*113*		*77.0-120*				

Method Blank (MB)

(MB) R3500522-2 02/14/20 10:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0390	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*91.5*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3500522-1 02/14/20 10:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.69	85.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*96.1*	*77.0-120*	

L1189162-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1189162-01 02/14/20 12:03 • (MS) R3500522-3 02/14/20 19:15 • (MSD) R3500522-4 02/14/20 19:36

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	27500	1800	5060	28300	11.9	96.4	5000	10.0-151		J3	139	28
(S) a,a,a-Trifluorotoluene(FID)					*85.8*	*99.9*		*77.0-120*				

Method Blank (MB)

(MB) R3500698-2 02/14/20 13:21

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)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3500698-1 02/14/20 12:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.71	104	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*77.0-120*	

Method Blank (MB)

(MB) R3500795-2 02/18/20 10:48

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) α,α,α-Trifluorotoluene(FID)	*99.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3500795-1 02/18/20 10:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.90	107	72.0-127	
(S) α,α,α-Trifluorotoluene(FID)			*105*	*77.0-120*	

Method Blank (MB)

(MB) R3500711-2 02/14/20 10:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*102*			*75.0-131*
(S) 4-Bromofluorobenzene	*89.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3500711-1 02/14/20 09:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.106	84.8	70.0-123	
Ethylbenzene	0.125	0.108	86.4	74.0-126	
Toluene	0.125	0.122	97.6	75.0-121	
Xylenes, Total	0.375	0.349	93.1	72.0-127	
(S) Toluene-d8			*102*	*75.0-131*	
(S) 4-Bromofluorobenzene			*95.5*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*106*	*70.0-130*	

L1189076-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1189076-20 02/14/20 17:57 • (MS) R3500711-3 02/14/20 18:16 • (MSD) R3500711-4 02/14/20 18:35

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.139	U	0.114	0.130	82.4	93.6	1	10.0-149			12.7	37
Ethylbenzene	0.139	U	0.111	0.127	80.0	91.2	1	10.0-160			13.1	38
Toluene	0.139	U	0.133	0.151	96.0	109	1	10.0-156			12.5	38
Xylenes, Total	0.416	U	0.345	0.384	82.9	92.3	1	10.0-160			10.7	38
(S) Toluene-d8					*101*	*103*		*75.0-131*				
(S) 4-Bromofluorobenzene					*86.6*	*85.6*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*100*	*102*		*70.0-130*				

Method Blank (MB)

(MB) R3500277-2 02/14/20 10:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*85.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3500277-1 02/14/20 09:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.110	88.0	70.0-123	
Ethylbenzene	0.125	0.114	91.2	74.0-126	
Toluene	0.125	0.121	96.8	75.0-121	
Xylenes, Total	0.375	0.307	81.9	72.0-127	
(S) Toluene-d8			*103*	*75.0-131*	
(S) 4-Bromofluorobenzene			*87.9*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*97.2*	*70.0-130*	

L1189076-34 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1189076-34 02/14/20 16:27 • (MS) R3500277-3 02/14/20 18:40 • (MSD) R3500277-4 02/14/20 18:59

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	0.137	U	0.0880	0.114	64.4	83.2	1	10.0-149			25.5	37
Ethylbenzene	0.137	U	0.0928	0.120	67.9	88.0	1	10.0-160			25.8	38
Toluene	0.137	U	0.101	0.128	74.2	93.6	1	10.0-156			23.2	38
Xylenes, Total	0.410	U	0.247	0.326	60.3	79.5	1	10.0-160			27.5	38
(S) Toluene-d8					*104*	*104*		*75.0-131*				
(S) 4-Bromofluorobenzene					*79.8*	*84.9*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*97.7*	*98.8*		*70.0-130*				

Method Blank (MB)

(MB) R3500157-2 02/14/20 10:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*110*			*75.0-131*
(S) 4-Bromofluorobenzene	*103*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*91.9*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3500157-1 02/14/20 09:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.103	82.4	70.0-123	
Ethylbenzene	0.125	0.104	83.2	74.0-126	
Toluene	0.125	0.102	81.6	75.0-121	
Xylenes, Total	0.375	0.309	82.4	72.0-127	
(S) Toluene-d8			*109*	*75.0-131*	
(S) 4-Bromofluorobenzene			*106*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*98.1*	*70.0-130*	

L1189076-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1189076-35 02/14/20 15:07 • (MS) R3500157-3 02/14/20 17:07 • (MSD) R3500157-4 02/14/20 17:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.130	U	0.0786	0.109	60.6	84.0	1	10.0-149			32.3	37
Ethylbenzene	0.130	U	0.0828	0.112	63.8	86.4	1	10.0-160			30.0	38
Toluene	0.130	U	0.0795	0.108	61.4	83.2	1	10.0-156			30.2	38
Xylenes, Total	0.389	U	0.250	0.332	64.3	85.3	1	10.0-160			28.2	38
(S) Toluene-d8					*109*	*108*		*75.0-131*				
(S) 4-Bromofluorobenzene					*105*	*104*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*96.5*	*98.2*		*70.0-130*				

Method Blank (MB)

(MB) R3500065-1 02/14/20 18:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	3.34	J	0.274	4.00
(S) o-Terphenyl	*73.7*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3500065-2 02/14/20 19:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	40.1	80.2	50.0-150	
(S) o-Terphenyl			*75.5*	*18.0-148*	

L1189076-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1189076-06 02/14/20 20:40 • (MS) R3500065-3 02/14/20 20:57 • (MSD) R3500065-4 02/14/20 21:12

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	61.9	U	38.6	43.8	62.4	70.8	1	50.0-150			12.6	20
(S) o-Terphenyl					*47.1*	*60.5*		*18.0-148*				

Method Blank (MB)

(MB) R3500174-1 02/16/20 00:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*66.7*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3500174-2 02/16/20 00:55

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	34.4	68.8	50.0-150	
(S) o-Terphenyl			*79.0*	*18.0-148*	

L1189076-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1189076-29 02/16/20 09:01 • (MS) R3500174-3 02/16/20 09:14 • (MSD) R3500174-4 02/16/20 09:27

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	54.6	U	39.4	42.7	72.2	78.2	1	50.0-150			7.98	20
(S) o-Terphenyl					*79.0*	*90.2*		*18.0-148*				

Method Blank (MB)

(MB) R3500629-1 02/17/20 14:42

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	0.845	J	0.274	4.00
(S) o-Terphenyl	*66.5*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3500629-2 02/17/20 14:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	33.0	66.0	50.0-150	
(S) o-Terphenyl			*60.7*	*18.0-148*	

L1189164-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1189164-01 02/17/20 18:05 • (MS) R3500629-3 02/17/20 18:18 • (MSD) R3500629-4 02/17/20 18:30

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	48.2	ND	46.9	49.5	97.3	105	10	50.0-150			5.39	20
(S) o-Terphenyl					*87.4*	*75.8*		*18.0-148*				

Sample Narrative:

OS: Cannot run at lower dilution due to viscosity of extract

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

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

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

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

Our Locations

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

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

G004

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	COP Wilder 28-1 Dumping		
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02031
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	
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-1 (0'-1')	2/4/2020	1200		X			X		1	N	X		X												X					
02	BH-1 (2'-3')	2/4/2020	1205		X			X		1	N	X		X												X					
03	BH-1 (4'-5')	2/4/2020	1210		X			X		1	N	X		X												X					
04	BH-1 (6'-7')	2/4/2020	1215		X			X		1	N	X		X												X					
05	BH-1 (9'-10')	2/4/2020	1220		X			X		1	N	X		X												X					
06	BH-2 (0'-1')	2/4/2020	1230		X			X		1	N	X		X												X					
07	BH-2 (2'-3')	2/4/2020	1235		X			X		1	N	X		X												X					
08	BH-2 (4'-5')	2/4/2020	1240		X			X		1	N	X		X												X					
09	BH-2 (6'-7')	2/4/2020	1245		X			X		1	N	X		X												X					
	BH-2 (9'-10')	2/4/2020	1250		X			X		1	N																				X

Relinquished by:	Date: 2-11-20	Time: 1500	Received by:	Date: 2-11-20	Time: 15:00
Relinquished by:	Date: 2-12-20	Time: 16:00	Received by: FedEx	Date: 2-12-20	Time: 16:00
Relinquished by:	Date:	Time:	Received by:	Date: 2/13/20	Time: 9:40

LAB USE ONLY

Sample Temperature

0.2+1=0.1
A2S

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

RAD SCREEN: <0.5 mR/hr

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:	COP Wilder 28-1 Dumping		
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02031
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	
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
10	BH-3 (0'-1')	2/4/2020	1300		X			X		1	N	X		X												X							
11	BH-3 (2'-3')	2/4/2020	1305		X			X		1	N	X		X												X							
12	BH-3 (4'-5')	2/4/2020	1310		X			X		1	N	X		X												X							
13	BH-3 (6'-7')	2/4/2020	1315		X			X		1	N	X		X												X							
	BH-3 (9'-10')	2/4/2020	1320		X			X		1	N																						X
14	BH-4 (0'-1')	2/4/2020	1330		X			X		1	N	X		X												X							
15	BH-4 (2'-3')	2/4/2020	1335		X			X		1	N	X		X												X							
16	BH-4 (4'-5')	2/4/2020	1340		X			X		1	N	X		X												X							
17	BH-4 (6'-7')	2/4/2020	1345		X			X		1	N	X		X												X							
	BH-4 (9'-10')	2/4/2020	1350		X			X		1	N																						X

Relinquished by:	Date: 2-11-20	Time: 1500	Received by: Date: 2-11-20 Time: 15:00
Relinquished by:	Date: 2-11-20	Time: 16:00	Received by: FedEx Date: 2-11-20 Time: 16:00
Relinquished by:	Date:	Time:	Received by: Carol Kemp Date: 2/13/20 Time: 9:40

LAB USE ONLY

Sample Temperature 0.2-1=0.1 AZa

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

RAD SCREEN: <0.5 mR/hr

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:	COP Wilder 28-1 Dumping		
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02031
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	
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
18	BH-5 (0'-1')	2/4/2020	1300		X			X		1	N	X		X												X						
19	BH-5 (2'-3')	2/4/2020	1305		X			X		1	N	X		X												X						
20	BH-5 (4'-5')	2/4/2020	1310		X			X		1	N	X		X												X						
21	BH-5 (6'-7')	2/4/2020	1315		X			X		1	N	X		X												X						
	BH-5 (9'-10')	2/4/2020	1320		X			X		1	N																					X
22	BH-6 (0'-1')	2/7/2020	1000		X			X		1	N	X		X												X						
23	BH-6 (2'-3')	2/7/2020	1005		X			X		1	N	X		X												X						
24	BH-6 (4'-5')	2/7/2020	1010		X			X		1	N	X		X												X						
25	BH-6 (6'-7')	2/7/2020	1015		X			X		1	N	X		X												X						
26	BH-6 (9'-10')	2/7/2020	1020		X			X		1	N	X		X												X						

Relinquished by:	Date: 2-11-20	Time: 1500	Received by:	Date: 2-11-20	Time: 5:00
Relinquished by:	Date: 2-11-20	Time: 16:30	Received by: FedEX	Date: 2-11-20	Time: 16:30
Relinquished by:	Date:	Time:	Received by:	Date: 2/13/20	Time: 9:40

LAB USE ONLY

Sample Temperature: 0.2-1=a1 A2=

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

RAD SCREEN: <0.5 mR/hr

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:	COP Wilder 28-1 Dumping		
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02031
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	
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
27	BH-7 (0'-1')	2/7/2020	1100		X			X		1	N	X		X												X						
28	BH-7 (2'-3')	2/7/2020	1105		X			X		1	N	X		X												X						
29	BH-7 (4'-5')	2/7/2020	1110		X			X		1	N	X		X												X						
30	BH-7 (6'-7')	2/7/2020	1115		X			X		1	N	X		X												X						
	BH-7 (9'-10')	2/7/2020	1120		X			X		1	N																					X
31	BH-8 (0'-1')	2/7/2020	1200		X			X		1	N	X		X												X						
32	BH-8 (2'-3')	2/7/2020	1205		X			X		1	N	X		X												X						
33	BH-8 (4'-5')	2/7/2020	1210		X			X		1	N	X		X												X						
34	BH-8 (6'-7')	2/7/2020	1215		X			X		1	N	X		X												X						
	BH-8 (9'-10')	2/7/2020	1220		X			X		1	N																					X

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	2-1-20	1500		2-1-20	1510
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	2-1-20	1610	FedEx	2-1-20	1610
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
				2/3/20	9:40

LAB USE ONLY

Sample Temperature 0.2-1=0.1

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

RAD SCREEN: <0.5 mR/hr

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: COP Wilder 28-1 Dumping

Project Location: (county, state) Lea County, New Mexico

Project #: 212C-MD-02031

Invoice to: Accounts Payable
901 West Wall Street, Suite 100 Midland, Texas 79701

Receiving Laboratory: Pace Analytical

Sampler Signature:

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
35	BH-9 (0'-1')	2/7/2020	1300		X			X		1	N	X			X												X							
36	BH-9 (2'-3')	2/7/2020	1305		X			X		1	N	X			X												X							
37	BH-9 (4'-5')	2/7/2020	1310		X			X		1	N	X			X												X							
38	BH-9 (6'-7')	2/7/2020	1320		X			X		1	N	X			X												X							
	BH-9 (9'-10')	2/7/2020	1330		X			X		1	N																							X

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	2-11-20	1500		2-11-20	15:20
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	2-11-20	16:20	FedEx	2-11-20	16:20
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
				2/13/20	9:40

LAB USE ONLY

Sample Temperature

0.2-1=0.1

A2F

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

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COPTETRA	1189076	
Cooler Received/Opened On: 2 /13 / 20 Temperature:	0.1	
Received By: Carol Kemp		
Signature: Carol Kemp		

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?			

APPENDIX D
Boring Logs

212C-MD-02031	TETRA TECH	LOG OF BORING BH-1	Page 1 of 1

Project Name: Wilder 28-1

Borehole Location: GPS: 32.019069°, -103.674380° | Surface Elevation: ft

Borehole Number: BH-1 | Borehole Diameter (in.): 8 | Date Started: 2/4/2020 | Date Finished: 2/4/2020

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
			609	0.9								**-FILL-** FILL MATERIAL; Brownish tan, with few gravel, poorly cemented, with no odor, with no staining.	1	BH-1 (0'-1')
			472	1.1								**-SM-** SILTY SAND; Brownish tan, with few gravel, poorly cemented, with no odor, with no staining.	3.5	BH-1 (2'-3')
5			201	1.2								**-SM-** SILTY SAND; Tan, with moderate gravel, heavily cemented, with no odor, with no staining.		BH-1 (4'-5')
			1150	0.2										BH-1 (6'-7')
10				0.1									10	BH-1 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: 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.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02031	TETRA TECH	LOG OF BORING BH-2	Page 1 of 1

Project Name: Wilder 28-1

Borehole Location: GPS: 32.019285°, -103.674521° | Surface Elevation: ft

Borehole Number: BH-2 | Borehole Diameter (in.): 8 | Date Started: 2/4/2020 | Date Finished: 2/4/2020

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
			951	0.2								**-FILL-** FILL MATERIAL; Brownish tan, with few gravel, poorly cemented, with no odor, with no staining.	1	BH-2 (0'-1')
			508	1.8								**-SM-** SILTY SAND; Brownish tan, with few gravel, poorly cemented, with no odor, with no staining.	3.5	BH-2 (2'-3')
5			390	0.4								**-SM-** SILTY SAND; Tan, with moderate gravel, heavily cemented, with no odor, with no staining.		BH-2 (4'-5')
				0.9										BH-2 (6'-7')
10				1.1									10	BH-2 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: 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.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02031	TETRA TECH	LOG OF BORING BH-3	Page 1 of 1

Project Name: Wilder 28-1

Borehole Location: GPS: 32.019562°, -103.674377° | Surface Elevation: ft

Borehole Number: BH-3 | Borehole Diameter (in.): 8 | Date Started: 2/4/2020 | Date Finished: 2/4/2020

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
			694	0.9								**-FILL-** FILL MATERIAL; Brownish tan, with few gravel, poorly cemented, with no odor, with no staining.	1	BH-3 (0'-1')
			252	0.8								**-SM-** SILTY SAND; Brownish tan, with few gravel, poorly cemented, with no odor, with no staining.	3.5	BH-3 (2'-3')
5			1130	1.3								**-SM-** SILTY SAND; Tan, with moderate gravel, heavily cemented, with no odor, with no staining.		BH-3 (4'-5')
				0.1										BH-3 (6'-7')
10				0									10	BH-3 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: 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.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02031	TETRA TECH	LOG OF BORING BH-4	Page 1 of 1

Project Name: Wilder 28-1

Borehole Location: GPS: 32.019335°, -103.674254° | Surface Elevation: ft

Borehole Number: BH-4 | Borehole Diameter (in.): 8 | Date Started: 2/4/2020 | Date Finished: 2/4/2020

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
			879	0.2								**-FILL-** FILL MATERIAL; Brownish tan, with few gravel, poorly cemented, with no odor, with no staining.	1	BH-4 (0'-1')
			501	0.1								**-SM-** SILTY SAND; Brownish tan, with few gravel, poorly cemented, with no odor, with no staining.	3.5	BH-4 (2'-3')
5			291	0.6								**-SM-** SILTY SAND; Tan, with moderate gravel, heavily cemented, with no odor, with no staining.		BH-4 (4'-5')
				1.2										BH-4 (6'-7')
10				0.3									10	BH-4 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: 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.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02031	TETRA TECH	LOG OF BORING BH-5	Page 1 of 1

Project Name: Wilder 28-1

Borehole Location: GPS: 32.019645°, -103.674156° | Surface Elevation: ft

Borehole Number: BH-5 | Borehole Diameter (in.): 8 | Date Started: 2/4/2020 | Date Finished: 2/4/2020

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
			209	2								**-FILL-** FILL MATERIAL; Brownish tan, with few gravel, poorly cemented, with no odor, with no staining.	1	BH-5 (0'-1')
			198	1.1								**-SM-** SILTY SAND; Brownish tan, with few gravel, poorly cemented, with no odor, with no staining.	3.5	BH-5 (2'-3')
5				0.8								**-SM-** SILTY SAND; Tan, with moderate gravel, heavily cemented, with no odor, with no staining.		BH-5 (4'-5')
				0.3										BH-5 (6'-7')
10				0.1									10	BH-5 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: 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.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02031	TETRA TECH	LOG OF BORING BH-6	Page 1 of 1

Project Name: Wilder 28-1

Borehole Location: GPS: 32.019004°, -103.674272° | Surface Elevation: ft

Borehole Number: BH-6 | Borehole Diameter (in.): 2 | Date Started: 2/7/2020 | Date Finished: 2/7/2020

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
			698	1.5								**-SM-** SILTY SAND; Brownish tan, with few gravel, moderately cemented, with no odor, with no staining.		BH-6 (0'-1')
			453	1.1										BH-6 (2'-3')
													3.5	
5				0.9								**-SM-** SILTY SAND; Tan, with moderate gravel, heavily cemented, with no odor, with no staining.		BH-6 (4'-5')
			225	0.3										BH-6 (6'-7')
10			208	0.5									10	BH-6 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: 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.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02031	TETRA TECH	LOG OF BORING BH-7	Page 1 of 1

Project Name: Wilder 28-1

Borehole Location: GPS: 32.019094°, -103.674670° | Surface Elevation: ft

Borehole Number: BH-7 | Borehole Diameter (in.): 2 | Date Started: 2/7/2020 | Date Finished: 2/7/2020

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
			155	0.9								**-SM-** SILTY SAND; Brownish tan, with few gravel, moderately cemented, with no odor, with no staining.		BH-7 (0'-1')
				0.5										BH-7 (2'-3')
													3.5	
5			1080	0.3								**-SM-** SILTY SAND; Tan, with moderate gravel, with no odor, with no staining. HC		BH-7 (4'-5')
				0.9										BH-7 (6'-7')
10			472	1.1									10	BH-7 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: 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.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02031	TETRA TECH	LOG OF BORING BH-8	Page 1 of 1

Project Name: Wilder 28-1

Borehole Location: GPS: 32.019575°, -103.674612° | Surface Elevation: ft

Borehole Number: BH-8 | Borehole Diameter (in.): 2 | Date Started: 2/7/2020 | Date Finished: 2/7/2020

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
			733	1.9								**-SM-** SILTY SAND; Brownish tan, with few gravel, moderately cemented, with no odor, with no staining.		BH-8 (0'-1')
			293	0.8										BH-8 (2'-3')
													3.5	
5				0.5								**-SM-** SILTY SAND; Tan, with moderate gravel, with no odor, with no staining. HC		BH-8 (4'-5')
			350	0.4										BH-8 (6'-7')
10				0.1									10	BH-8 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: 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.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02031	TETRA TECH	LOG OF BORING BH-9	Page 1 of 1

Project Name: Wilder 28-1

Borehole Location: GPS: 32.019800°, -103.674392° | Surface Elevation: ft

Borehole Number: BH-9 | Borehole Diameter (in.): 2 | Date Started: 2/7/2020 | Date Finished: 2/7/2020

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
			481	0.2								**-SM-** SILTY SAND; Brownish tan, with few gravel, moderately cemented, with no odor, with no staining.		BH-9 (0'-1')
			290	0.1										BH-9 (6'-7')
													3.5	
5				0								**-SM-** SILTY SAND; Tan, with moderate gravel, with no odor, with no staining. HC		BH-9 (4'-5')
				0.9										BH-9 (6'-7')
10				0.5									10	BH-9 (9'-10')

Bottom of borehole at 10.0 feet.

Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, California, Grab Sample, Test Pit

Operation Types: 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.

Logger: Joe Tyler | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling