Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2109649049
District RP	
Facility ID	
Application ID	

Remediation Plan

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

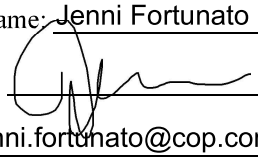
- ☑ Detailed description of proposed remediation technique
- ☑ Scaled sitemap with GPS coordinates showing delineation points
- ☑ Estimated volume of material to be remediated
- ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☑ Proposed schedule for remediation (note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

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

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

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

Printed Name: Jenni Fortunato Title: Program Manager, Remediation

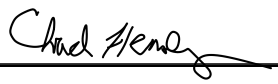
Signature:  Date: 7/13/2021

email: jenni.fortunato@cop.com Telephone: 832-486-2477

OCD Only

Received by: Ramona Marcus Date: 7/16/2021

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

Signature:  Date: 08/18/2021

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	nAPP2109649049
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Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.020556 Longitude 103.694444
(NAD 83 in decimal degrees to 5 decimal places)

Site Name – Wilder Pipeline to Mesquite Off-take	Site Type
Date Release Discovered – 12/11/2020	API# *(if applicable) NA - Pipeline*

Unit Letter	Section	Township	Range	County
B (NWNE)	29	26S	R32E	Lea County, NM

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

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	Total Volume Released (bbls) 176 bbls	Volume Recovered (bbls) 7 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Manifold failure located at surface		

State of New Mexico
Oil Conservation Division

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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? 19.15.29.7 (A)(1) An unauthorized release of a volume, excluding gases, of 25 barrels or more.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Notice was made by Charles Beauvais, Environmental Coordinator, at 3:30PM, on 12/14/2020 via email to Bradford.billings@state.nm. Also, an online submittal with payment for submittals was made to NMOCD.

Initial Response

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

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

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

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

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

Printed Name: Charles Beauvais Title: Environmental Coordinator

Signature: Charles R. Beauvais II Date: 12/14/2020

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

OCD Only

Received by: Ramona Marcus Date: 7/16/2021

NAPP2109649049

L48 Spill Volume Estimate Form									
Facility Name & Number:	Wilder Pipeline Line to Mesquite OffTake								
Asset Area:	Delaware - Zia Hills								
Release Discovery Date & Time:	12/11/2020 11:45am								
Release Type:	Produced Water								
Provide any known details about the event:	Trunk Line Manifold Release								
Spill Calculation - Subsurface Spill - Rectangle									
Was the release on pad or off-pad?	See reference table below								
Has it rained at least a half inch in the last 24 hours?	See reference table below								
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	72.6	72.6	12.00	12.60%	938.712	118.278			
Rectangle B	30.0	21.0	24.00	12.60%	224.280	28.259			
Rectangle C	124.0	8.0	12.00	12.60%	176.576	22.249			
Rectangle D					0.000	0.000			
Rectangle E					0.000	0.000			
Rectangle F					0.000	0.000			
Rectangle G					0.000	0.000			
Rectangle H					0.000	0.000			
Rectangle I					0.000	0.000			
Rectangle J					0.000	0.000			
					Total Volume Release:	168.786			

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2109649049
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	327 (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	
District RP	
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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Ramona Marcus Date: 7/16/2021

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Ramona Marcus Date: 7/16/2021

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

Signature: _____ Date: _____

NAPP2109649049

TETRA TECH

July 14, 2021

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

Re: Release Characterization and Remediation Work Plan
ConocoPhillips
Wilder Pipeline Manifold Release
Unit Letter B, Section 29, Township 26 South, Range 32 East
Lea County, New Mexico
Incident ID nAPP2109649049

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from the manifold of the Wilder pipeline, approximately 420 feet northeast of the Wilder 29 Federal #220H (API# 30-025-41511) wellhead. The release footprint is located in Public Land Survey System (PLSS) Unit Letter B, Section 29, Township 26 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.020660°, -103.694372°, 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 December 11, 2020. The release occurred as the result of a manifold failure located at the surface and encompasses an area of 12,773 square feet. Approximately 176 barrels (bbls) of produced water were released, of which 7 bbls were recovered. The C-141 report form was submitted to the New Mexico Oil Conservation Division (NMOCD) on December 14, 2020; however, the C-141 was not processed upon receipt. Ultimately, the NMOCD processed the initial C-141 on April 6, 2021 and assigned the Site the incident ID nAPP2109649049.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of high karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no wells within a ½ mile (800 meters) of the Site. The nearest water wells with depth to water data are approximately 1,178 meters from the Site, in the Public Land Survey System (PLSS) Section 21, Township 26 South, and Range 32 East with an average depth to groundwater at 327 feet below ground surface (bgs). The site characterization data is included in Appendix B.

Tetra Tech
901 West Wall St., Suite 100, Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

REGULATORY FRAMEWORK

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

Based on the site characterization, the RRALs for the Site are as follows:

Constituent	RRAL
Chloride	600 mg/kg
TPH	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

SITE ASSESSMENT AND SAMPLING RESULTS

On December 29, 2020, Tetra Tech personnel conducted soil sampling in an attempt to horizontally and vertically delineate the release extent. A total of thirteen (13) borings were installed using a hand auger. Two (2) hand auger borings (AH-1 and AH-2) were installed within the release extent to a depth of 5 feet bgs. These vertical borings were limited at depth by auger refusal in the loose subsurface sands. Eleven (11) hand auger borings (H-1 through H-11) were installed outside the perimeter of the release extent footprint to a depth of 3 feet bgs to establish horizontal delineation. Boring logs, included as Appendix C, present soil descriptions, sample depths, and field screening data from the assessment activities.

A total of thirty-two (32) samples were collected from the thirteen (13) borings and submitted to Pace Analytical Laboratory to be analyzed for chloride 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 D. Boring locations are shown in Figure 3.

Results from the December 2020 soil sampling event are summarized in Table 1. Analytical results associated with vertical boring locations AH-1 and AH-2 exceeded the Site RRAL for chloride of 600 mg/kg at all sample depth intervals down to the terminal depth of 5 feet bgs. Additionally, analytical results associated with boring location H-11 (located north of the release point) exceeded the Site RRAL for chloride at both intervals tested, 0-1 feet and 2-3 feet. Analytical results associated with boring location H-10 exceeded the chloride RRAL in the 2-3 foot interval, but not the 0-1 foot interval.

ADDITIONAL SITE DELINEATION AND SAMPLING RESULTS

Based on the results of the December 2020 site assessment activities, delineation of the release was determined to be incomplete. Complete delineation required additional soil sampling north of H-10 and H-11 to complete horizontal delineation and soil sampling from a greater depth near AH-1 and AH-2 to complete vertical delineation. Photographic documentation from the site assessment activities is included as Appendix E.

On January 19, 2021, Tetra Tech personnel conducted additional soil sampling to complete delineation of the release extent. Two (2) borings (BH-1 and BH-2) were installed within the release extent using an air rotary drill rig to a depth of 55 feet bgs. As groundwater was not encountered when borings BH-1 and BH-2 were installed to 55 feet bgs, COP considers that the depth to water at this Site is established as greater than 50 feet bgs. Two (2) hand auger borings (H-12 and H-13) were installed north of H-10 and H-11 to a depth of 5 feet bgs. Boring logs from the January 2021 additional assessment activities are included in Appendix C.

A total of twenty-six (26) samples were collected from the four (4) borings and submitted to Pace Analytical Laboratory to be analyzed for chloride 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 D. Sample locations are shown in Figure 3.

Results from the January 2021 soil sampling event are summarized in Table 2. Analytical results associated with vertical boring locations BH-1 and BH-2 exceeded the Site RRAL for chloride of 600 mg/kg at sample depth intervals down to 10 feet bgs and 15 feet bgs, respectively. Additionally, analytical results associated with boring BH-2 exceeded the Site RRAL for TPH of 100 mg/kg at the 0-1-foot sample depth interval. All other analytical results were below Site RRALs.

REMEDIATION WORK PLAN

Based on the analytical results, COP proposes to remove the impacted material as shown in Figure 4. Impacted soils will be excavated using heavy equipment (backhoes and track hoes) to a maximum depth of 4 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the RRALs. Any area containing pressurized lines will be hand-dug to a depth of 4 feet or the maximum extent practicable and heavy equipment will come no more than 3 feet from any pressurized lines.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall soil samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 2,700 cubic yards.

VARIANCE REQUEST

After characterization of this release, COP proposes to leave impacted soils (with concentrations greater than those specified in Table I) located below four (4) feet bgs in place. The contamination is fully delineated, groundwater in this area is determined to be below 50 feet bgs (and likely below 200 feet bgs), and the release footprint is located in areas immediately under or around pipelines where any further excavation past 4 feet bgs could cause a major facility deconstruction, and/or additional unwanted impact to the environment.

Thus, in accordance with 19.15.29.14(A) NMAC, COP requests a variance for the placement of a liner within the excavated area. A 20-mil reinforced polyethylene liner will be installed and properly seated throughout the base of the excavation (at 4 feet below surrounding grade). The liner will provide an engineering control that will serve as a barrier and inhibit the downward migration of residual constituents.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, COP proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 5. Thirty-six (36) confirmation floor samples and sixty-two (62) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 18,000 square feet.

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

SITE RECLAMATION AND RESTORATION PLAN

The backfilled areas will be seeded in Spring 2021 or the first favorable growing season to aid in revegetation. Based on the soils at the Site, the New Mexico State Land Office (NMSLO) Sandy Loam (SL)

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

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

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of NMOCD plan approval. 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:
Ms. Jenni Fortunato, RMR – ConocoPhillips
Mr. Charles Beauvais, GPBU - ConocoPhillips
Mr. Arthur Arias, BLM

LIST OF ATTACHMENTS

Figures:

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

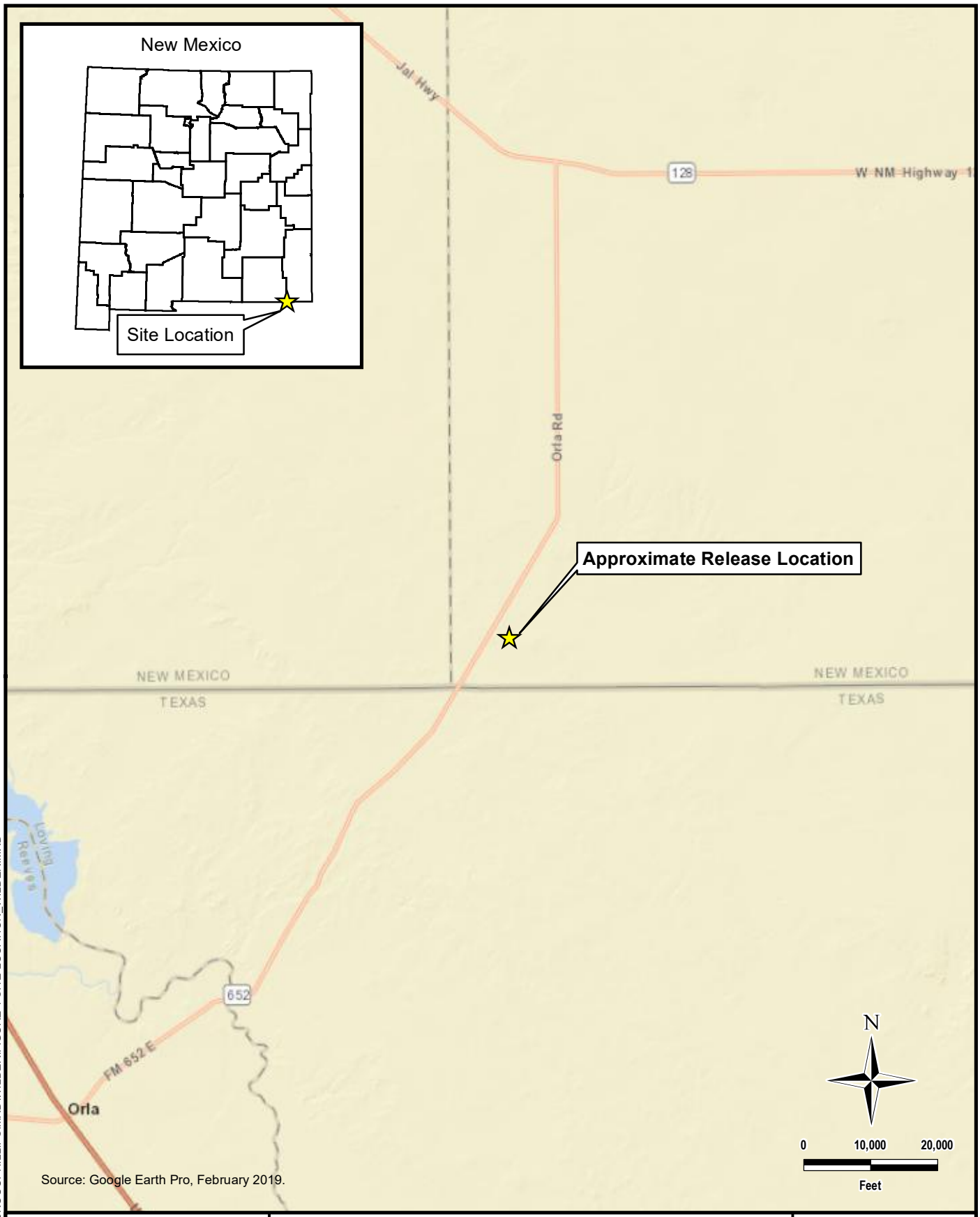
Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment
- Table 2 – Summary of Analytical Results – Additional Soil Assessment

Appendices:

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

FIGURES



Source: Google Earth Pro, February 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WILDER\FIGURE 1 SITE LOCATION_WILDER.MXD

TETRA TECH

www.tetratech.com

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

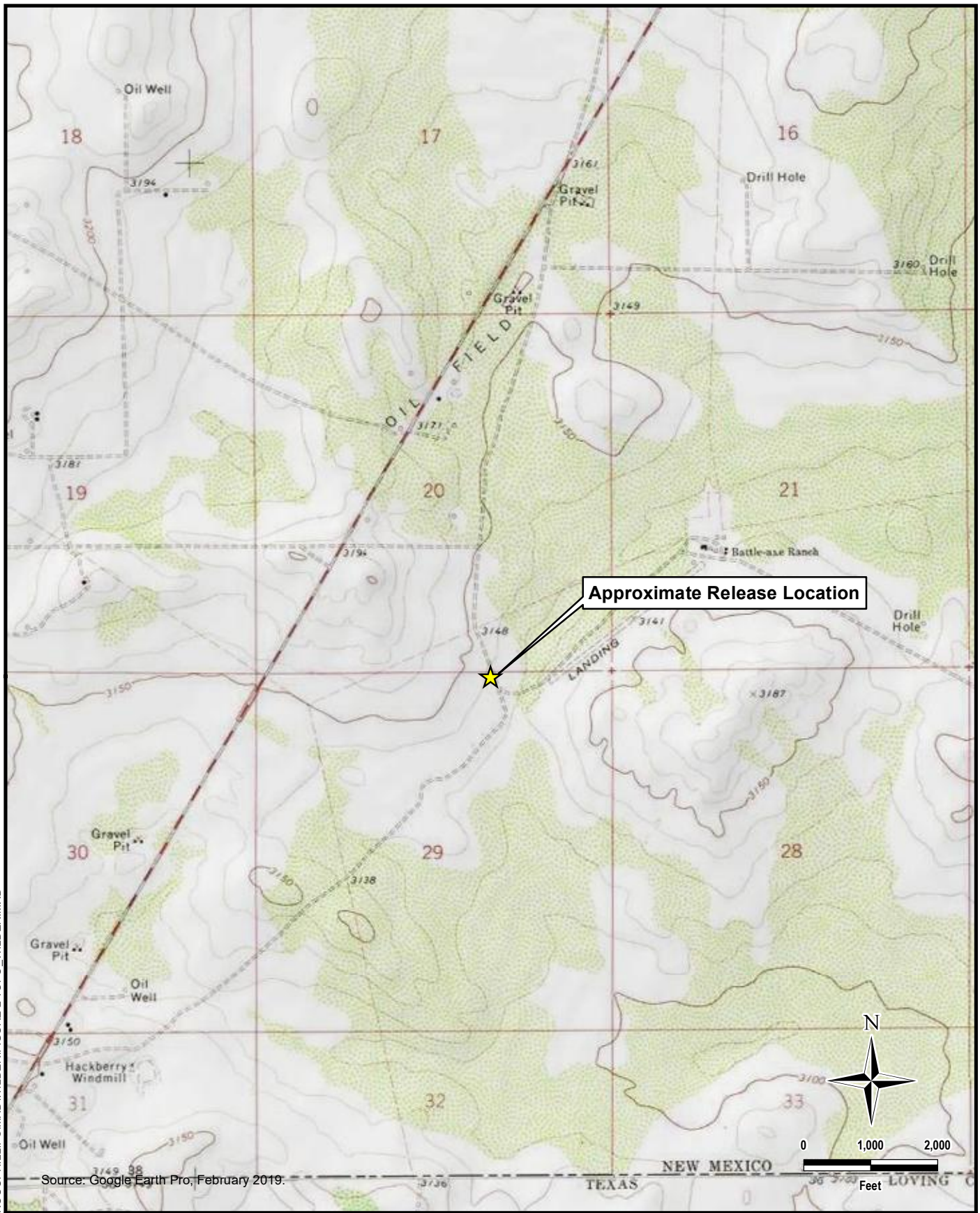
CONOCOPHILLIPS

nAPP2109649049
(32.020660°, -103.694372°)
LEA C OUNTY, NEW MEXICO

WILDER PIPELINE MANIFOLD RELEASE
SITE LOCATION MAP

PROJECT NO.:	212C-MD-02383
DATE:	JANUARY 12, 2021
DESIGNED BY:	AJW

Figure No.
1



Source: Google Earth Pro, February 2019.

DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WILDER\FIGURE 2 TOPO_WILDER.MXD

TETRA TECH
www.tetratech.com
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Midland, Texas 79701
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Fax: (432) 682-3946

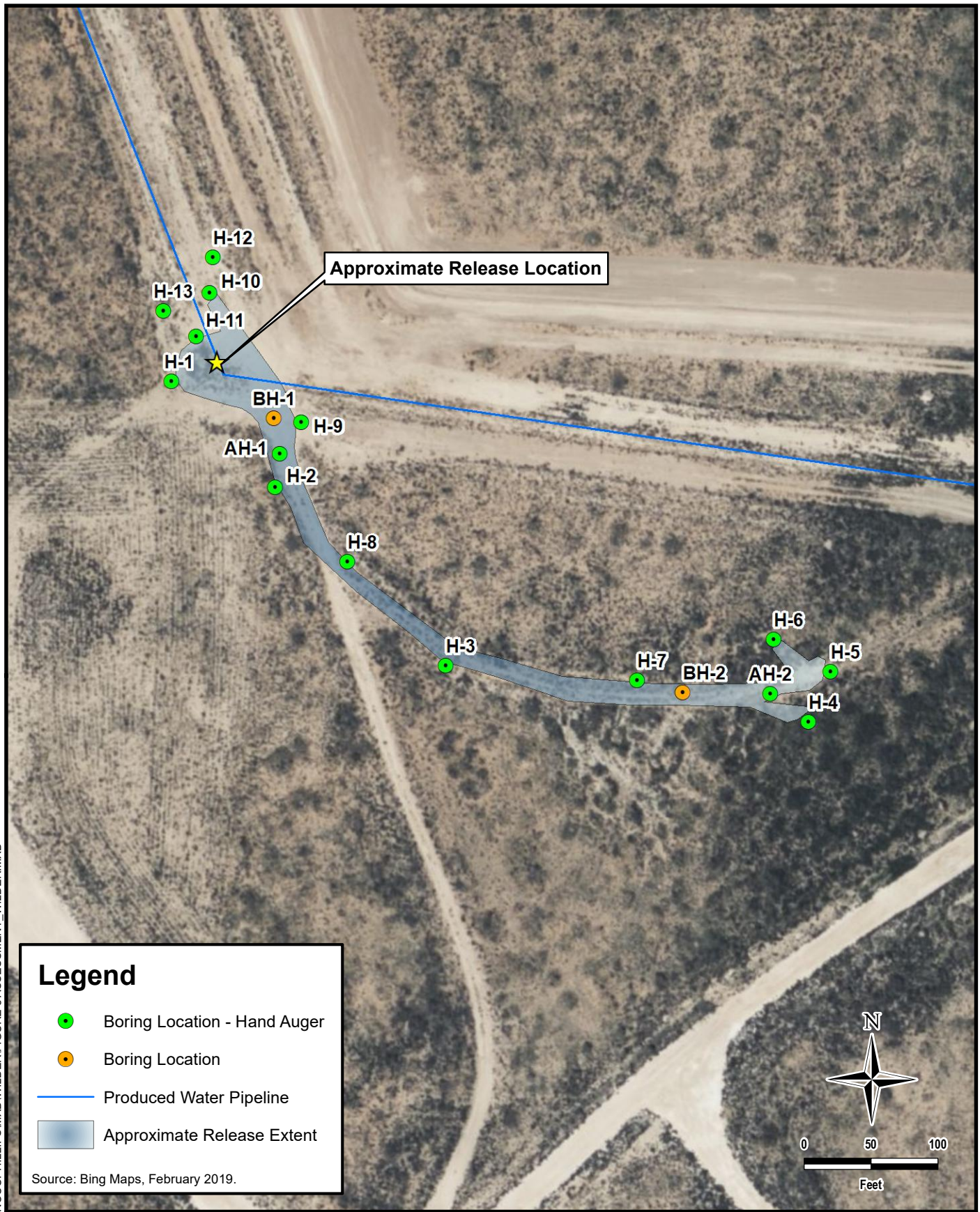
CONOCOPHILLIPS

nAPP2109649049
(32.020660°, -103.694372°)
LEA COUNTY, NEW MEXICO

WILDER PIPELINE MANIFOLD RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-02383
DATE:	JANUARY 12, 2021
DESIGNED BY:	AJW

Figure No.
2



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WILDER\FIGURE 3 ASSESSMENT_WILDER.MXD

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Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

CONOCOPHILLIPS

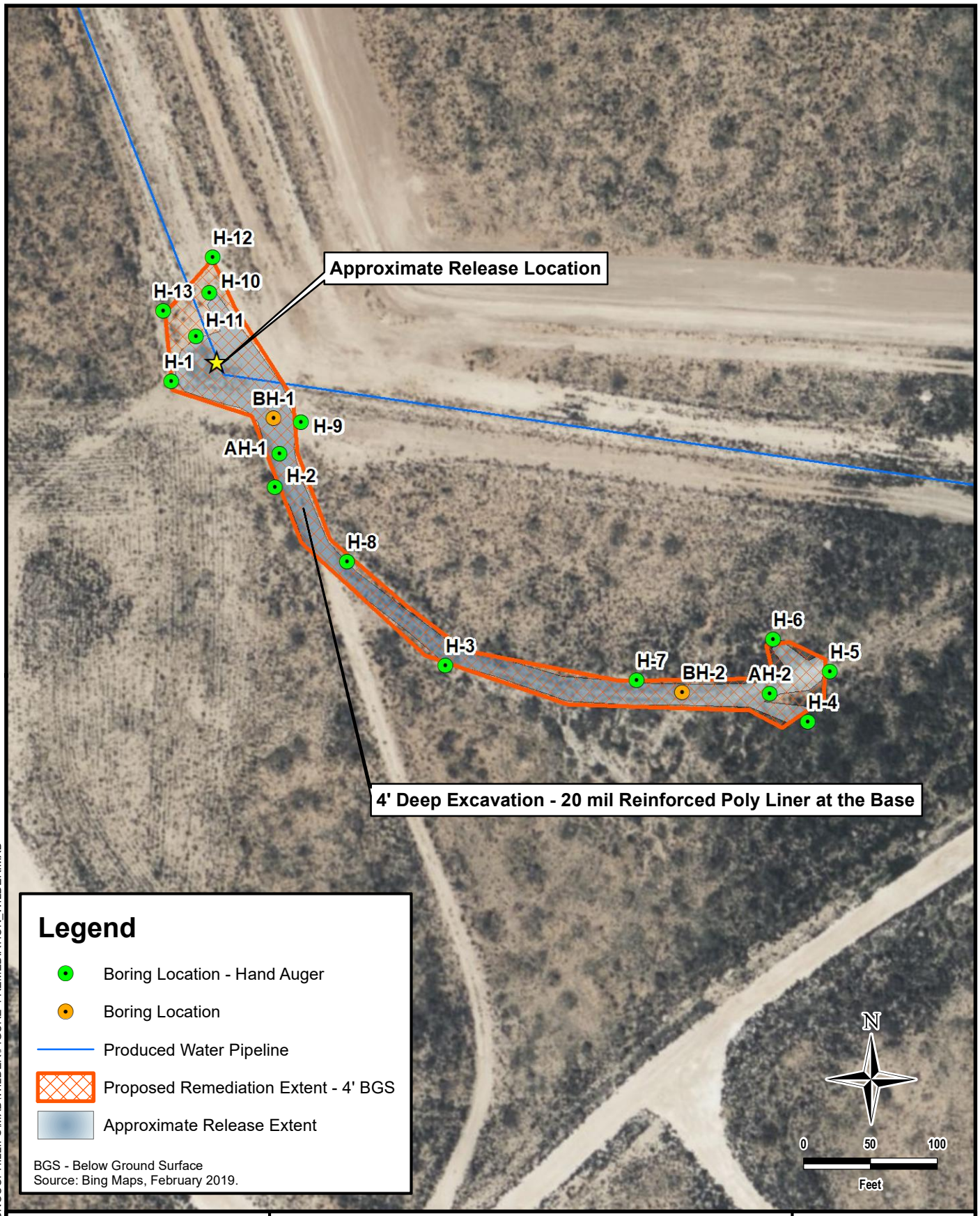
nAPP2109649049

(32.020660°, -103.694372°)
LEA COUNTY, NEW MEXICO

WILDER PIPELINE MANIFOLD RELEASE
RELEASE EXTENT AND SITE ASSESSMENT

PROJECT NO.:	212C-MD-02383
DATE:	MARCH 02, 2021
DESIGNED BY:	AJW

Figure No.
3



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WILDER\FIGURE 4 REMEDIATION_WILDER.MXD

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CONOCOPHILLIPS

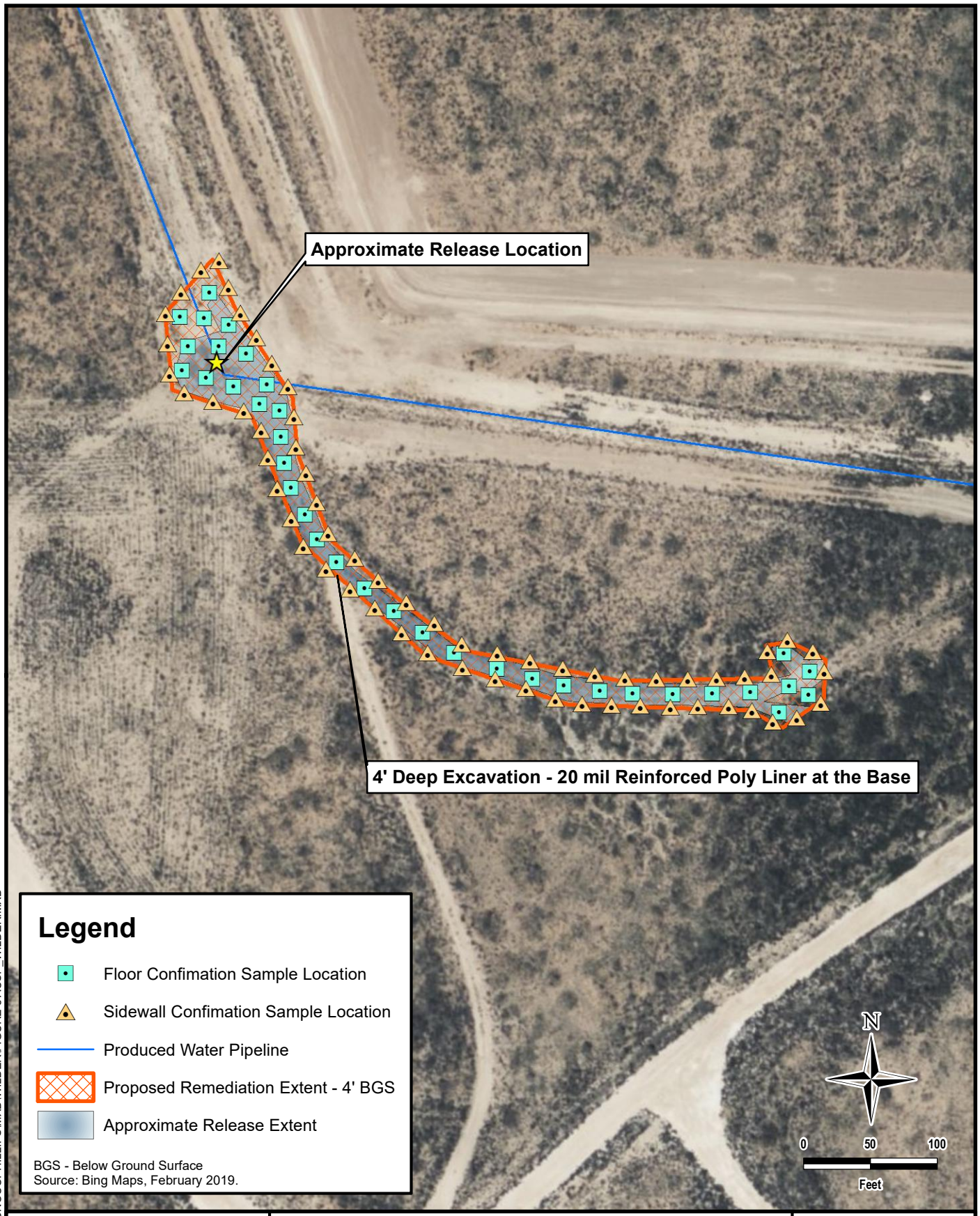
nAPP2109649049

(32.020660°, -103.694372°)
LEA COUNTY, NEW MEXICO

WILDER PIPELINE MANIFOLD RELEASE
PROPOSED REMEDIATION EXTENT

PROJECT NO.:	212C-MD-02383
DATE:	MARCH 02, 2021
DESIGNED BY:	AJW

Figure No.
4



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\WILDER\FIGURE 5 ACSP_WILDER.MXD

TETRA TECH

www.tetratech.com

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

CONOCOPHILLIPS

nAPP2109649049

(32.020660°, -103.694372°)
LEA COUNTY, NEW MEXICO

WILDER PIPELINE MANIFOLD RELEASE
ALTERNATIVE CONFIRMATION SAMPLING PLAN

PROJECT NO.:	212C-MD-02383
DATE:	MARCH 02, 2021
DESIGNED BY:	AJW

Figure No.

5

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT
CONOCOPHILLIPS
WILDER PIPELINE MANIFOLD RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride[1]		BTEX[2]									TPH[3]						
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO[4] C_3 - C_{10}		DRO C_{10} - C_{28}		ORO C_{28} - C_{40}		Total TPH (GRO+DRO+ORO)
		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
AH-1	12/29/2020	0-1	7520	0.0	***11300***		0.00231		< 0.00615		< 0.00308		0.00151	J	0.00382	0.0592	B J	3.56	J	6.76		10.4
		1-1.5	8110	0.0	***9380***		< 0.00123		< 0.00617		< 0.00309		< 0.00802		-	0.0591	B J	4.88		6.02		11.0
		2-3	11900	0.0	***5720***		< 0.00147		< 0.00736		< 0.00368		< 0.00957		-	0.0528	B J	< 4.94		1.41	J	1.46
		3-4	1270	0.0	***12800***		< 0.00133		< 0.00665		< 0.00332		< 0.00864		-	0.0488	B J	< 4.66		0.687	J	0.736
		4-5	> 15000	0.4	***5120***		< 0.00125		< 0.00626		< 0.00313		< 0.00814		-	0.0553	B J	< 4.50		1.28	J	1.34
AH-2	12/29/2020	0-1	7770	0.0	***4120***		0.00101	J	< 0.00781		< 0.00390		< 0.0101		0.00101	0.0636	B J	< 5.12		2.97	J	3.03
		1-1.5	7910	0.0	***6540***		< 0.00143		< 0.00716		< 0.00358		< 0.00930		-	0.0452	B J	< 4.86		0.721	J	0.766
		2-3	11500	0.0	***11700***		< 0.00158		< 0.00791		< 0.00395		< 0.0103		-	< 0.129		< 5.16		0.810	J	0.810
		3-4	10980	0.0	***7250***		< 0.00144		< 0.00721		< 0.00361		< 0.00938		-	0.0458	B J	< 4.88		< 4.88		0.0458
		4-5	5570	0.0	***8580***		< 0.00124		< 0.00618		< 0.00309		< 0.00803		-	0.0456	B J	< 4.47		< 4.47		0.0456
H-1	12/29/2020	0-1	151	0.0	20.9		< 0.00103		< 0.00514		< 0.00257		< 0.00668		-	0.0549	B J	4.29		8.55		12.9
		2-3	110	0.0	< 20.8		< 0.00108		< 0.00539		< 0.00270		< 0.00701		-	0.0436	B J	2.07	J	4.15	J	6.26
H-2	12/29/2020	0-1	81.1	0.0	< 20.8		< 0.00108		< 0.00541		< 0.00270		< 0.00703		-	0.0370	B J	< 4.16		2.01	J	2.05
		2-3	143	-	< 20.9		< 0.00109		< 0.00545		< 0.00273		< 0.00709		-	0.0407	B J	< 4.18		3.50	J	3.54
H-3	12/29/2020	0-1	79.4	-	< 20.6		< 0.00106		< 0.00532		< 0.00266		< 0.00692		-	0.0417	B J	8.40		9.63		18.1
		2-3	62.1	0.0	< 20.8		< 0.00108		< 0.00540		< 0.00270		< 0.00702		-	0.0471	B J	< 4.16		4.86		4.91
H-4	12/29/2020	0-1	49.7	0.0	11.6	J	< 0.00111		< 0.00557		< 0.00279		< 0.00724		-	< 0.106		< 4.23	J3 J6	8.30		8.30
		2-3	88.9	0.0	14.3	J	0.000630	J	< 0.00548		< 0.00274		< 0.00712		0.000630	< 0.105		< 4.19		8.57		8.57
H-5	12/29/2020	0-1	42.7	-	< 20.2		< 0.00102		< 0.00509		< 0.00255		< 0.00662		-	< 0.101		2.16	J	5.35		7.51
		2-3	25.6	0.0	30.3		< 0.00118		< 0.00592		0.00426		0.00175	J	0.00601	< 0.109		< 4.37		1.62	J	1.62
H-6	12/29/2020	0-1	65.6	0.0	21.6	J	< 0.00127		< 0.00637		< 0.00319		< 0.00828		-	< 0.114		< 4.55		4.49	J	4.49
		2-3	51.1	0.4	< 20.9		< 0.00110		< 0.00548		< 0.00274		< 0.00712		-	< 0.105		< 4.19		3.82	J	3.82
H-7	12/29/2020	0-1	64.5	0.0	53.9		< 0.00144		< 0.00719		< 0.00359		< 0.00935		-	< 0.122		2.61	J	5.99		8.60
		2-3	44.4	0.0	45.7		< 0.00144		< 0.00721		< 0.00361		< 0.00938		-	< 0.122		< 4.88		2.66	J	2.66
H-8	12/29/2020	0-1	72.7	0.0	< 20.6		< 0.00106		< 0.00531		< 0.00266		< 0.00691		-	< 0.103		1.93	J	6.61		8.54
		2-3	67.5	-	19.4	J	< 0.00140		< 0.00702		< 0.00351		< 0.00912		-	< 0.120		< 4.81		2.16	J	2.16
H-9	12/29/2020	0-1	72.2	0.0	46.3		< 0.00139		< 0.00693		< 0.00347		< 0.00901		-	< 0.119		< 4.77		0.429	J	0.429
		2-3	156	0.0	54.1		< 0.00132		< 0.00662		< 0.00331		< 0.00861		-	< 0.116		< 4.65		< 4.65		-
H-10	12/29/2020	0-1	178	0.0	76.2		< 0.00142		< 0.00710		< 0.00355		< 0.00923		-	< 0.121		< 4.84		0.420	J	0.420
		2-3	391	0.0	***1100***		< 0.00111		< 0.00555		< 0.00278		< 0.00722		-	< 0.105		1.77	J	2.67	J	4.44
H-11	12/29/2020	0-1	204	0.0	***1030***		< 0.00112		< 0.00561		< 0.00281		< 0.00730		-	< 0.106		1.98	J	2.87	J	4.85
		2-3	423	0.0	***969***		< 0.00112		< 0.00562		< 0.00281		< 0.00730		-	< 0.106		< 4.25		2.66	J	2.66

NOTES:

ft. Feet
bgs Below ground surface
ppm Parts per million
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
ORO Oil range organics

Bold and italicized values indicate exceedance of proposed RRALs

Shaded rows indicate depth intervals proposed for excavation and remediation

1 EPA Method 300.0
2 EPA Method 8260B
3 EPA Method 8015
4 EPA 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.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT
CONOCOPHILLIPS
WILDER PIPELINE MANIFOLD RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chloride[1]		BTEX[2]									TPH[3]							
							Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO[4]		DRO		ORO		Total TPH (GRO+DRO+ORO)
			Chloride	PID												C_3 - C_{10}		C_{10} - C_{28}		C_{28} - 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	1/19/2021	0-1	-	-	***8590***		< 0.00122		< 0.00612		< 0.00306		< 0.00795		-	0.162	B	12.1		7.70		20.0
		2-3	-	-	***6770***		< 0.00120		< 0.00599		< 0.00299		< 0.00778		-	0.0651	B J	4.39	J	3.53	J	7.99
		4-5	-	-	***7880***		< 0.00125		< 0.00624		< 0.00312		< 0.00811		-	0.0452	B J	< 4.49		1.27	J	1.32
		6-7	-	-	***8280***		< 0.00124		< 0.00622		< 0.00311		< 0.00809		-	0.0269	B J	< 4.49		0.762	J	0.789
		9-10	1540	-	***676***		< 0.00119		< 0.00594		< 0.00297		< 0.00772		-	0.0444	B J	< 4.38		0.591	J	0.635
		15	742	-	399		< 0.00112		< 0.00561		< 0.00281		< 0.00730		-	0.0472	B J	< 4.24		0.483	J	0.530
		20	679	-	449		< 0.00112		< 0.00561		< 0.00281		< 0.00729		-	0.0491	B J	< 4.24		< 4.24		0.0491
		25	334	-	154		< 0.00105		< 0.00527		< 0.00264		< 0.00685		-	0.0940	B J	1.91	J	< 4.11		2.00
		30	209	-	295		< 0.00112		< 0.00559		< 0.00279		< 0.00727		-	0.0721	B J	< 4.24		< 4.24		0.0721
BH-2	1/19/2021	0-1	> 15000	-	***3740***		< 0.00112		< 0.00559		< 0.00279		< 0.00726		-	0.0592	B J	212		181		***393***
		2-3	> 15000	-	***4200***		< 0.00116		< 0.00578		< 0.00289		< 0.00751		-	0.0363	B J	4.97		3.58	B J	8.59
		4-5	> 15000	-	***4480***		< 0.00112		< 0.00560		< 0.00280		< 0.00728		-	0.0472	B J	5.00		8.20		13.2
		6-7	> 15000	-	***7490***		< 0.00120		< 0.00601		< 0.00300		< 0.00781		-	0.0644	B J	5.78		7.60		13.4
		9-10	10500	-	***10600***		< 0.00128		< 0.00641		< 0.00320		0.00122	J	0.00122	0.0276	B J	< 4.56		0.738	J	0.766
		15	5600	-	***4350***		< 0.00117		< 0.00585		< 0.00292		< 0.00760		-	< 0.108		< 4.34		0.755	J	0.755
		20	540	-	527		< 0.00115		< 0.00577		< 0.00288		< 0.00750		-	< 0.108		< 4.31		0.579	J	0.579
		25	372	-	123		< 0.00112		< 0.00559		< 0.00279		< 0.00727		-	< 0.106		< 4.24		0.466	J	0.466
		30	330	-	386		< 0.00108		< 0.00541		< 0.00270		< 0.00703		-	0.0370	J	< 4.16		0.552	J	0.589
H-12	1/19/2021	0-1	41	-	< 20.6		< 0.00106		< 0.00532		< 0.00266		< 0.00692		-	< 0.103		< 4.13		1.94	J	1.94
		2-3	62	-	< 20.7		< 0.00107		< 0.00534		< 0.00267		< 0.00694		-	< 0.103		< 4.13		2.03	J	2.03
		3-4	51	-	< 20.6		< 0.00106		< 0.00532		< 0.00266		< 0.00692		-	< 0.103		< 4.13		2.54	J	2.54
		4-5	102	-	12.0	J	< 0.00107		< 0.00534		< 0.00267		< 0.00694		-	< 0.103		< 4.14		1.02	J	1.02
H-13	1/19/2021	0-1	110	-	16.8	J	< 0.00107		< 0.00537		< 0.00269		< 0.00699		-	< 0.104		< 4.15		1.16	J	1.16
		2-3	86	-	< 20.7		< 0.00107		< 0.00534		< 0.00267		< 0.00694		-	< 0.103		< 4.13		1.37	J	1.37
		3-4	68	-	< 20.7		< 0.00107		< 0.00536		< 0.00268		< 0.00697		-	< 0.104		< 4.14		0.798	J	0.798
		4-5	121	-	< 20.7		< 0.00107		< 0.00535		< 0.00267		< 0.00695		-	< 0.103		< 4.14		0.564	J	0.564

NOTES:

ft. Feet
bgs Below ground surface
ppm Parts per million
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
ORO Oil range organics

Bold and italicized values indicate exceedance of proposed RRALs

Shaded rows indicate depth intervals proposed for excavation and remediation

1 EPA Method 300.0
2 EPA Method 8260B
3 EPA Method 8015
4 EPA 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

APPENDIX B
Site Characterization Data

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03537 POD1	CUB	LE	3	2	3	21	26S	32E	624250	3543985	1080	850		
C 02271 POD2	CUB	LE	3	2	3	21	26S	32E	624348	3544010*	1178	270	250	20
C 02323	C	LE	3	2	3	21	26S	32E	624348	3544010*	1178	405	405	0

Average Depth to Water: **327 feet**

Minimum Depth: **250 feet**

Maximum Depth: **405 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 623300.55 **Northing (Y):** 3543470.72 **Radius:** 1200

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

Karst Potential Map

Wilder Pipeline Manifold Release
AoC 7155

Legend

- High
- Low
- Medium
- Wilder Pipeline Manifold Release

Wilder Pipeline Manifold Release

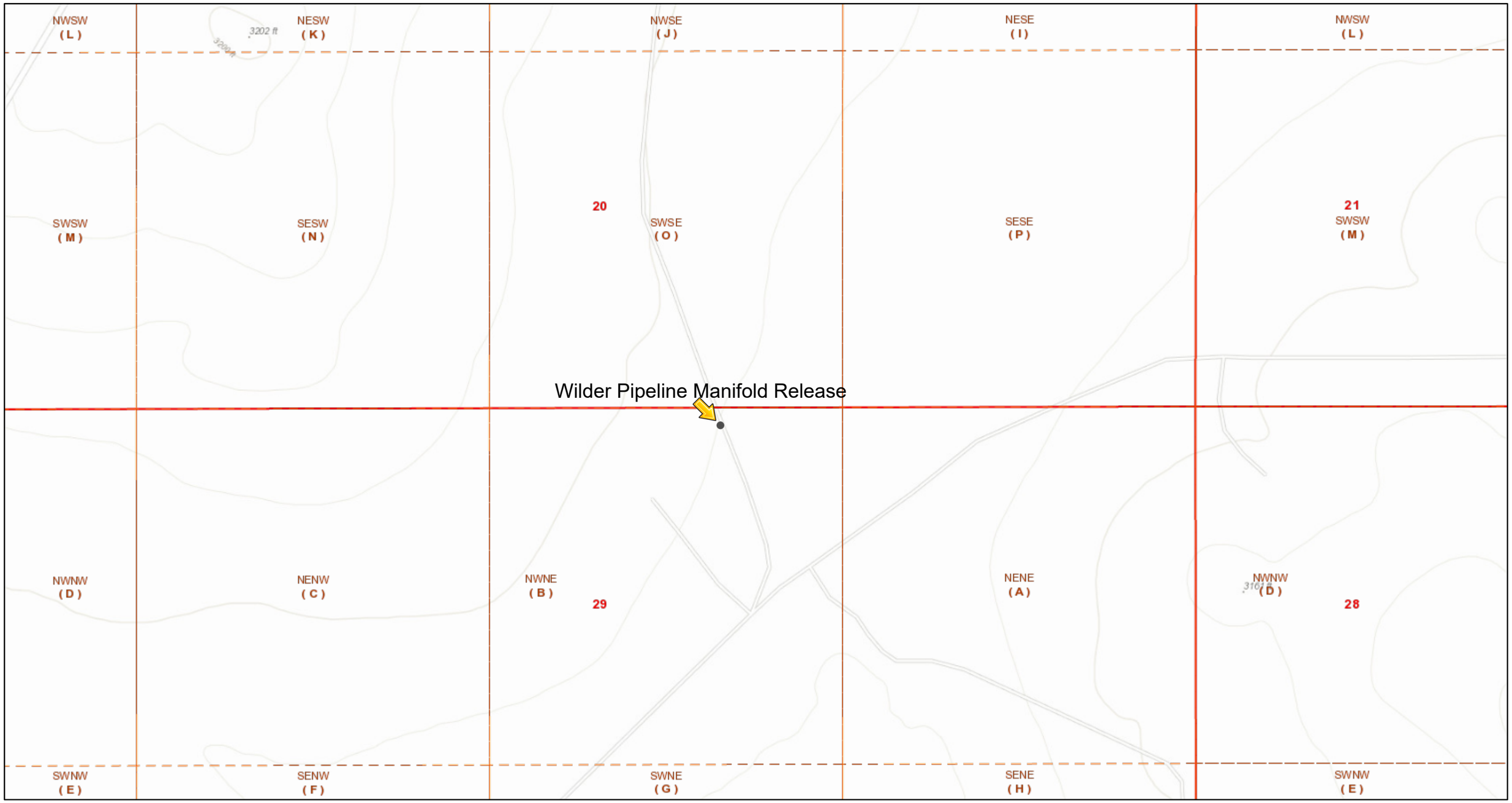
1

Google Earth

N

1 mi

Wilder Pipeline Manifold Release



1/8/2021, 11:48:42 AM

Override 1

PLSS First Division

PLSS Second Division

OSE Water-bodies

PLJV Probable Playas

OSE Streams

1:5,083

0 0.05 0.1 0.2 mi

0 0.07 0.15 0.3 km

Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA, BLM

APPENDIX C
Soil Boring Logs

212C-MD-02383	TETRA TECH	**LOG OF BORING AH-1**	Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020474°, -103.694217° | Surface Elevation: 3139 ft

Borehole Number: AH-1 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			7770	0								**-SM-** SILTY SAND; Light brown, medium dense, calcic/limey, with no hydrocarbon odor, with no staining.	1	AH-1 (0-1')
			7910	0									2	AH-1 (1-1.5')
			11500	0								**-SM-** SILTY SAND; Light pink, medium dense, with no hydrocarbon odor, with no staining.		AH-1 (2-3')
			10980	0								**-SM-** SILTY SAND; Light red, medium dense, with no hydrocarbon odor, with no staining.		AH-1 (3-4')
5			5570	0									5	AH-1 (4-5')

Bottom of borehole at 5.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the remarks column above.
Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02383	TETRA TECH	**LOG OF BORING AH-2**	Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.019973°, -103.693036° | Surface Elevation: 3137 ft

Borehole Number: AH-2 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			7520	0								**-SM-** SILTY SAND; Light brown, medium dense, with caliche gravel, with no hydrocarbon odor, with no staining.	1	AH-2 (0-1')
			8110	0									2	AH-2 (1-1.5')
			11900	0								**-SM-** SILTY SAND; Tan, medium dense, with caliche gravel, with no hydrocarbon odor, with no staining.		AH-2 (2-3')
			1270	0								**-SM-** SILTY SAND; Brown, medium dense, with no hydrocarbon odor, with no staining.	4	AH-2 (3-4')
5			0.4	0.4								**-SM-** SILTY SAND; Light brown, medium dense, with no hydrocarbon odor, with no staining.	5	AH-2 (4-5')
												Bottom of borehole at 5.0 feet.		

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the remarks column above.
Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02383 | TETRA TECH | **LOG OF BORING BH-1** | Page 1 of 3

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020525°, -103.694239° | Surface Elevation: 3141 ft

Borehole Number: BH-1 | Borehole Diameter (in.): 8 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

WATER LEVEL OBSERVATIONS

While Drilling ▽ Dry ft Upon Completion of Drilling ▼ Dry ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
												-SM- SILTY SAND; Brown, loose, very fine-grained, dry.		BH-1 (0-1')
													2	
												-SM- SILTY SAND; Brown, medium dense, with limestone nodules, dry.		BH-1 (2-3')
5													5	BH-1 (4-5')
												-SP- SAND; Light tan, medium dense, calcic, with occasional limestone pebbles, moist.		BH-1 (6-7')
10			1540	0										BH-1 (9-10')
15			742	0									15	BH-1 (15')
												-SP- SILTY SAND; Light red, dense, dry.		
20			679	0										BH-1 (20')
25			334	0									25	BH-1 (25')

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

Operation Types: Mud Rotary, Continuous Flight Auger, Wash Rotary, Hand Auger, Air Rotary, Direct Push, Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02383	TETRA TECH	**LOG OF BORING BH-1**	Page 2 of 3

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020525°, -103.694239° | Surface Elevation: 3141 ft

Borehole Number: BH-1 | Borehole Diameter (in.): 8 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
30			209	0								**-SP-** SAND; Reddish tan, medium dense, very fine-grained, moist.		BH-1 (30')
35												**-SP-** SILTY SAND; Light red, dense, with occasional white clay, dry.	35	
40														
45														
50														

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

Operation Types: Mud Rotary, Continuous Flight Auger, Wash Rotary, Hand Auger, Air Rotary, Direct Push, Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

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Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020525°, -103.694239° | Surface Elevation: 3141 ft

Borehole Number: BH-1 | Borehole Diameter (in.): 8 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
55													55	

Bottom of borehole at 55.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the remarks column above.
Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02383	TETRA TECH	**LOG OF BORING BH-2**	Page 1 of 3

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.019977°, -103.693255° | Surface Elevation: 3139 ft

Borehole Number: BH-2 | Borehole Diameter (in.): 8 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			OL	0								**-SM-** SILTY SAND; Brown, loose, very fine-grained, dry.		BH-2 (0-1')
													2	
			OL	0								**-SM-** SILTY SAND; Brown, medium dense, with limestone nodules, dry.		BH-2 (2-3')
5			OL	0									5	BH-2 (4-5')
												-SP- SAND; Light tan, medium dense, calcic, with occasional limestone pebbles, moist.		
			OL	0										BH-2 (6-7')
10			10500	0										BH-2 (9-10')
15			5600	0									15	BH-2 (15')
												-SP- SILTY SAND; Light red, dense, dry.		
20			540	0										BH-2 (20')
25			372	0									25	BH-2 (25')

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

Operation Types: Mud Rotary, Continuous Flight Auger, Wash Rotary, Hand Auger, Air Rotary, Direct Push, Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02383	TETRA TECH	**LOG OF BORING BH-2**	Page 2 of 3

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.019977°, -103.693255° | Surface Elevation: 3139 ft

Borehole Number: BH-2 | Borehole Diameter (in.): 8 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
30			330	0								**-SP-** SAND; Reddish tan, medium dense, very fine-grained, moist.		BH-2 (30')
35												**-SP-** SILTY SAND; Light red, dense, with occasional white clay, dry.	35	
40														
45														
50														

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the remarks column above.
Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02383	TETRA TECH	**LOG OF BORING BH-2**	Page 3 of 3

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.019977°, -103.693255° | Surface Elevation: 3139 ft

Borehole Number: BH-2 | Borehole Diameter (in.): 8 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
55													55	

Bottom of borehole at 55.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the remarks column above.
Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

212C-MD-02383 | TETRA TECH | **LOG OF BORING H-1** | Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020621°, -103.694483° | Surface Elevation: 3145 ft

Borehole Number: H-1 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			151	0								**-SM-** SILTY SAND; Light brown, medium dense, with caliche sand, with no hydrocarbon odor, with no staining.		H-1 (0-1')
			110	0									3	H-1 (2-3')

Bottom of borehole at 3.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the remarks column above.
Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02383 | TETRA TECH | **LOG OF BORING H-2** | Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020403°, -103.694235° | Surface Elevation: 3144 ft

Borehole Number: H-2 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			81.1	0								**-SM-** SILTY SAND; Light brown, medium dense, with caliche, with no hydrocarbon odor, with no staining.		H-2 (0-1')
			143	0									3	H-2 (2-3')

Bottom of borehole at 3.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02383 | TETRA TECH | **LOG OF BORING H-3** | Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020036°, -103.693826° | Surface Elevation: 3141 ft

Borehole Number: H-3 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			79.4	0								**-SM-** SILTY SAND; Light brown, medium dense, with caliche sand, with no hydrocarbon odor, with no staining.		H-3 (0-1')
			62.1	0									3	H-3 (2-3')

Bottom of borehole at 3.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

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Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.019915°, -103.692952° | Surface Elevation: 3137 ft

Borehole Number: H-4 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			49.7	0								**-SM-** SILTY SAND; Light brown, medium dense, with caliche sand, with no hydrocarbon odor, with no staining.		H-4 (0-1')
			88.9	0									3	H-4 (2-3')

Bottom of borehole at 3.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02383	TETRA TECH	**LOG OF BORING H-5**	Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020017°, -103.692898° | Surface Elevation: 3137 ft

Borehole Number: H-5 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			42.7	0								**-SM-** SILTY SAND; Light brown, medium dense, with caliche sand, with no hydrocarbon odor, with no staining.		H-5 (0-1')
			25.6	0									3	H-5 (2-3')

Bottom of borehole at 3.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02383	TETRA TECH	**LOG OF BORING H-6**	Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020085°, -103.693035° | Surface Elevation: 3137 ft

Borehole Number: H-6 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			65.6	0								**-SM-** SILTY SAND; Tan, medium dense, with caliche sand, with no hydrocarbon odor, with no staining.		H-6 (0-1')
			51.1	0.4									3	H-6 (2-3')

Bottom of borehole at 3.0 feet.

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

Operation Types: Mud Rotary, Hand Auger, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02383 | TETRA TECH | **LOG OF BORING H-7** | Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020003°, -103.693365° | Surface Elevation: 3139 ft

Borehole Number: H-7 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			64.5	0								**-SM-** SILTY SAND; Light brown, medium dense, with caliche sand, with no hydrocarbon odor, with no staining.		H-7 (0-1')
			44.4	0									3	H-7 (2-3')

Bottom of borehole at 3.0 feet.

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

Operation Types: Mud Rotary; Hand Auger; Air Rotary; Continuous Flight Auger; Direct Push; Wash Rotary; Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02383 | TETRA TECH | **LOG OF BORING H-8** | Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020250°, -103.694060° | Surface Elevation: 3140 ft

Borehole Number: H-8 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			72.7	0								**-SM-** SILTY SAND; Light brown, medium dense, with occassional caliche, with no hydrocarbon odor, with no staining.		H-8 (0-1')
			67.5	0									3	H-8 (2-3')

Bottom of borehole at 3.0 feet.

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

Operation Types: Hand Auger; Mud Rotary; Air Rotary; Continuous Flight Auger; Direct Push; Wash Rotary; Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

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Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020536°, -103.694171° | Surface Elevation: 3144 ft

Borehole Number: H-9 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			72.2	0								**-SM-** SILTY SAND; Light brown, medium dense, with occassional caliche, with no hydrocarbon odor, with no staining.	2	H-9 (0-1')
			156	0								**-SM-** SILTY SAND; Light pink, medium dense, with no hydrocarbon odor, with no staining.	3	H-9 (2-3')

Bottom of borehole at 3.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the remarks column above.
Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02383 | TETRA TECH | **LOG OF BORING H-10** | Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020802°, -103.694390° | Surface Elevation: 3144 ft

Borehole Number: H-10 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			178	0								**-SM-** SILTY SAND; Light brown, medium dense, with occassional caliche, with no hydrocarbon odor, with no staining.	2	H-10 (0-1')
			391	0								**-SM-** SILTY SAND; Light pink, medium dense, with no hydrocarbon odor, with no staining.	3	H-10 (2-3')

Bottom of borehole at 3.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Analytical samples are shown in the remarks column above.
Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02383 | TETRA TECH | **LOG OF BORING H-11** | Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020713°, -103.694422° | Surface Elevation: 3144 ft

Borehole Number: H-11 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			204	0								**-SM-** SILTY SAND; Light brown, medium dense, with occassional caliche, with no hydrocarbon odor, with no staining.		H-11 (0-1')
													2	
			423	0								**-SM-** SILTY SAND; Light pink, medium dense, with no hydrocarbon odor, with no staining.	3	H-11 (2-3')

Bottom of borehole at 3.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the remarks column above.
Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

212C-MD-02383	TETRA TECH	**LOG OF BORING H-12**	Page 1 of 1

Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020874, -103.694382° Surface Elevation: 3144 ft

Borehole Number: H-12 Borehole Diameter (in.): 4 Date Started: 1/19/2021 Date Finished: 1/19/2021

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
			41	0								**-SM-** SILTY SAND; Light brown, medium dense, with occassional caliche, with no hydrocarbon odor, with no staining.		H-12 (0-1')
													2	
			62	0								**-SM-** SILTY SAND; Tan, medium dense, with occassional caliche, with no hydrocarbon odor, with no staining.	3	H-12 (2-3')
			51	0								**-SP-** SAND; Light red, medium dense, with no hydrocarbon odor, with no staining.		H-12 (3-4')
5			102	0									5	H-12 (4-5')

Bottom of borehole at 5.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston Drilling Equipment: Hand Auger Driller: Tetra Tech

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Project Name: Wilder Pipeline Manifold Release

Borehole Location: 32.020766°, -103.694501° | Surface Elevation: 3145 ft

Borehole Number: H-13 | Borehole Diameter (in.): 4 | Date Started: 1/19/2021 | Date Finished: 1/19/2021

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
			110	0								**-SM-** SILTY SAND; Light brown, medium dense, with occassional caliche, with no hydrocarbon odor, with no staining.		H-13 (0-1')
													2	
			86	0								**-SM-** SILTY SAND; Tan, medium dense, with occassional caliche, with no hydrocarbon odor, with no staining.	3	H-13 (2-3')
			68	0										H-13 (3-4')
5			121	0								**-SM-** SILTY SAND; Light red, medium dense, with no hydrocarbon odor, with no staining.	5	H-13 (4-5')

Bottom of borehole at 5.0 feet.

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

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:

Analytical samples are shown in the remarks column above. Surface elevations are estimated from Google Earth data.

Logger: John Thurston | Drilling Equipment: Hand Auger | Driller: Tetra Tech

APPENDIX D
Laboratory Analytical Data

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

January 11, 2021

ConocoPhillips - Tetra Tech

Sample Delivery Group:	L1302167
Samples Received:	01/04/2021
Project Number:	212C-MD-02383
Description:	Wilder Manifold Release

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

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

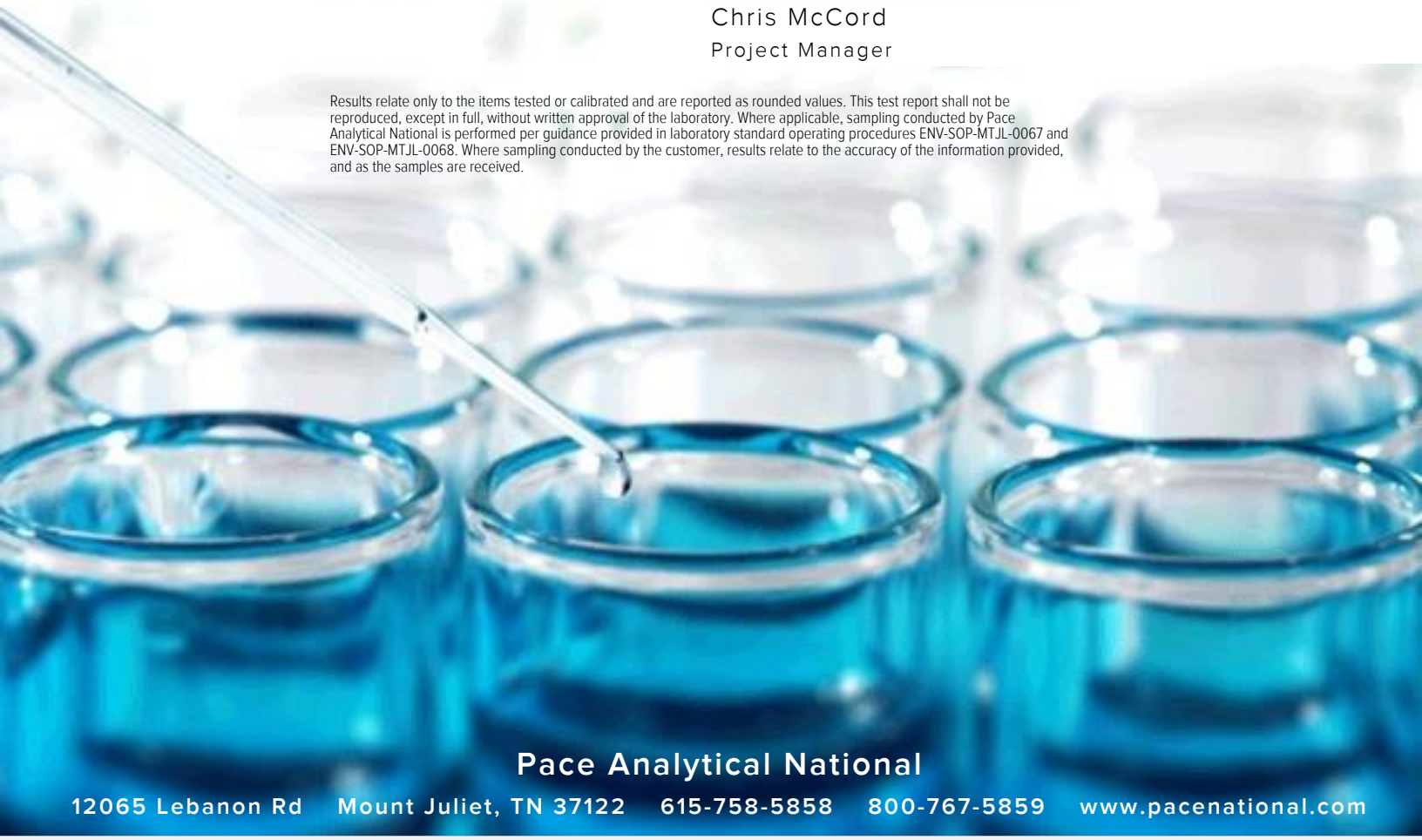


TABLE OF CONTENTS

AH-1 (0-1') L1302167-01 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 08:30
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601652	1	01/07/21 07:41	01/07/21 07:48	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	20	01/06/21 11:54	01/06/21 14:10	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 17:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/05/21 23:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601568	1	01/06/21 15:57	01/07/21 04:59	JN	Mt. Juliet, TN

AH-1 (1-1.5') L1302167-02 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 08:41
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601652	1	01/07/21 07:41	01/07/21 07:48	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	20	01/06/21 11:54	01/06/21 14:29	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 18:15	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/05/21 23:25	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601568	1	01/06/21 15:57	01/07/21 05:38	JN	Mt. Juliet, TN

AH-1 (2-3') L1302167-03 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 08:45
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601652	1	01/07/21 07:41	01/07/21 07:48	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	10	01/06/21 11:54	01/06/21 14:38	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 18:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/05/21 23:43	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601568	1	01/06/21 15:57	01/07/21 05:51	JN	Mt. Juliet, TN

AH-1 (3-4') L1302167-04 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 08:55
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601652	1	01/07/21 07:41	01/07/21 07:48	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	20	01/06/21 11:54	01/06/21 14:48	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 19:01	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 00:02	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601568	1	01/06/21 15:57	01/07/21 06:05	JN	Mt. Juliet, TN

AH-1 (4-5') L1302167-05 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 08:59
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601652	1	01/07/21 07:41	01/07/21 07:48	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	10	01/06/21 11:54	01/06/21 14:57	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 19:24	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 00:21	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601568	1	01/06/21 15:57	01/07/21 12:03	TJD	Mt. Juliet, TN

AH-2 (0-1') L1302167-06 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 09:35 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601652	1	01/07/21 07:41	01/07/21 07:48	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	10	01/06/21 11:54	01/06/21 15:07	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 20:05	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 00:39	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601568	1	01/06/21 15:57	01/07/21 12:16	TJD	Mt. Juliet, TN

AH-2 (1-1.5') L1302167-07 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 09:38 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601652	1	01/07/21 07:41	01/07/21 07:48	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	20	01/06/21 11:54	01/06/21 15:16	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 20:28	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 00:58	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 05:28	DMG	Mt. Juliet, TN

AH-2 (2-3') L1302167-08 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 09:41 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601652	1	01/07/21 07:41	01/07/21 07:48	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	20	01/06/21 11:54	01/06/21 15:45	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1603305	1	01/05/21 11:17	01/10/21 15:05	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 01:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 05:41	DMG	Mt. Juliet, TN

AH-2 (3-4') L1302167-09 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 09:46 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601652	1	01/07/21 07:41	01/07/21 07:48	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	10	01/06/21 11:54	01/06/21 15:54	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 21:15	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 01:35	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 05:54	DMG	Mt. Juliet, TN

AH-2 (4-5') L1302167-10 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 09:50 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601654	1	01/08/21 08:22	01/08/21 08:45	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	20	01/06/21 11:54	01/06/21 16:32	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 21:39	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 01:54	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 06:06	DMG	Mt. Juliet, TN

H-1 (0-1') L1302167-11 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 10:00 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601654	1	01/08/21 08:22	01/08/21 08:45	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	1	01/06/21 11:54	01/06/21 16:42	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 22:02	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 02:12	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 06:19	DMG	Mt. Juliet, TN

H-1 (2-3') L1302167-12 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 10:10 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601654	1	01/08/21 08:22	01/08/21 08:45	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	1	01/06/21 11:54	01/06/21 16:51	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 22:25	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 02:30	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 06:32	DMG	Mt. Juliet, TN

H-2 (0-1') L1302167-13 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 10:20 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601654	1	01/08/21 08:22	01/08/21 08:45	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	1	01/06/21 11:54	01/06/21 17:01	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 22:49	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 02:49	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 06:45	DMG	Mt. Juliet, TN

H-2 (2-3') L1302167-14 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 10:30 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601654	1	01/08/21 08:22	01/08/21 08:45	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	1	01/06/21 11:54	01/06/21 17:10	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 23:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 03:07	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 11:05	TJD	Mt. Juliet, TN

H-3 (0-1') L1302167-15 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 10:40 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601654	1	01/08/21 08:22	01/08/21 08:45	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	1	01/06/21 11:54	01/06/21 17:39	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 23:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 03:26	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 11:17	TJD	Mt. Juliet, TN

H-3 (2-3') L1302167-16 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 10:50
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601654	1	01/08/21 08:22	01/08/21 08:45	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	1	01/06/21 11:54	01/06/21 17:48	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601125	1	01/05/21 11:17	01/05/21 23:59	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 11:17	01/06/21 03:45	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 11:30	TJD	Mt. Juliet, TN

H-4 (0-1') L1302167-17 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 11:00
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601654	1	01/08/21 08:22	01/08/21 08:45	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	1	01/06/21 11:54	01/06/21 17:58	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601402	1	01/05/21 13:57	01/06/21 15:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 13:57	01/06/21 04:03	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 11:43	TJD	Mt. Juliet, TN

H-4 (2-3') L1302167-18 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 11:10
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601654	1	01/08/21 08:22	01/08/21 08:45	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	1	01/06/21 11:54	01/06/21 18:07	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601402	1	01/05/21 13:57	01/06/21 15:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 13:57	01/06/21 04:22	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 12:21	TJD	Mt. Juliet, TN

H-5 (0-1') L1302167-19 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 11:20
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601648	1	01/07/21 07:31	01/07/21 07:38	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	1	01/06/21 11:54	01/06/21 18:17	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601402	1	01/05/21 13:57	01/06/21 15:54	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601232	1	01/05/21 13:57	01/06/21 04:40	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 12:34	TJD	Mt. Juliet, TN

H-5 (2-3') L1302167-20 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 11:30
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601667	1	01/07/21 07:07	01/07/21 07:14	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1600973	1	01/06/21 11:54	01/06/21 18:27	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601402	1	01/05/21 13:57	01/06/21 16:15	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1603315	1	01/05/21 13:57	01/10/21 13:42	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 12:46	TJD	Mt. Juliet, TN

H-6 (0-1') L1302167-21 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 11:40 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601667	1	01/07/21 07:07	01/07/21 07:14	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	1	01/06/21 20:06	01/07/21 00:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601402	1	01/05/21 13:57	01/06/21 16:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 08:39	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 12:59	TJD	Mt. Juliet, TN

H-6 (2-3') L1302167-22 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 11:50 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601667	1	01/07/21 07:07	01/07/21 07:14	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	1	01/06/21 20:06	01/07/21 00:45	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601402	1	01/05/21 13:57	01/06/21 16:56	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 08:58	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 13:12	TJD	Mt. Juliet, TN

H-7 (0-1') L1302167-23 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 12:30 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601667	1	01/07/21 07:07	01/07/21 07:14	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	1	01/06/21 20:06	01/07/21 01:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601402	1	01/05/21 13:57	01/06/21 17:17	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 09:18	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 13:25	TJD	Mt. Juliet, TN

H-7 (2-3') L1302167-24 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 12:40 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601667	1	01/07/21 07:07	01/07/21 07:14	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	1	01/06/21 20:06	01/07/21 01:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601402	1	01/05/21 13:57	01/06/21 17:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 09:37	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 13:37	TJD	Mt. Juliet, TN

H-8 (0-1') L1302167-25 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 12:50 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601667	1	01/07/21 07:07	01/07/21 07:14	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	1	01/06/21 20:06	01/07/21 01:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601402	1	01/05/21 13:57	01/06/21 17:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 09:56	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 13:50	TJD	Mt. Juliet, TN

H-8 (2-3') L1302167-26 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 13:00 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601667	1	01/07/21 07:07	01/07/21 07:14	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	1	01/06/21 20:06	01/07/21 01:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601542	1	01/05/21 13:57	01/06/21 16:23	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 10:15	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601569	1	01/06/21 16:01	01/07/21 14:03	TJD	Mt. Juliet, TN

H-9 (0-1') L1302167-27 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 13:10 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601667	1	01/07/21 07:07	01/07/21 07:14	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	1	01/06/21 20:06	01/07/21 02:07	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601542	1	01/05/21 13:57	01/06/21 16:45	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 10:34	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601570	1	01/06/21 16:05	01/07/21 14:16	TJD	Mt. Juliet, TN

H-9 (2-3') L1302167-28 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 13:20 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601667	1	01/07/21 07:07	01/07/21 07:14	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	1	01/06/21 20:06	01/07/21 02:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601542	1	01/05/21 13:57	01/06/21 17:08	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 10:53	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601570	1	01/06/21 16:05	01/07/21 14:29	TJD	Mt. Juliet, TN

H-10 (0-1') L1302167-29 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 13:30 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601667	1	01/07/21 07:07	01/07/21 07:14	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	1	01/06/21 20:06	01/07/21 03:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601542	1	01/05/21 13:57	01/06/21 17:46	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 11:12	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601570	1	01/06/21 16:05	01/07/21 14:42	TJD	Mt. Juliet, TN

H-10 (2-3') L1302167-30 Solid

Collected by: John Thurston | Collected date/time: 12/29/20 13:40 | Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601670	1	01/07/21 06:57	01/07/21 07:04	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	5	01/06/21 20:06	01/07/21 04:19	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601542	1	01/05/21 13:57	01/06/21 18:08	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 11:31	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601570	1	01/06/21 16:05	01/07/21 14:56	TJD	Mt. Juliet, TN

H-11 (0-1') L1302167-31 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 14:00
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601670	1	01/07/21 06:57	01/07/21 07:04	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	5	01/06/21 20:06	01/07/21 04:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601542	1	01/05/21 13:57	01/06/21 18:31	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 11:51	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601570	1	01/06/21 16:05	01/07/21 15:09	TJD	Mt. Juliet, TN

H-11 (2-3') L1302167-32 Solid

Collected by: John Thurston
Collected date/time: 12/29/20 14:10
Received date/time: 01/04/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1601670	1	01/07/21 06:57	01/07/21 07:04	CMK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1601143	5	01/06/21 20:06	01/07/21 04:52	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1601542	1	01/05/21 13:57	01/06/21 18:53	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1601347	1	01/05/21 13:57	01/06/21 12:10	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1601570	1	01/06/21 16:05	01/07/21 15:22	TJD	Mt. Juliet, TN

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

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.7		1	01/07/2021 07:48	WG1601652

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	11300		205	446	20	01/06/2021 14:10	WG1600973

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	0.0592	B J	0.0242	0.112	1	01/05/2021 17:52	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*77.0-120*		*01/05/2021 17:52*	WG1601125

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	0.00231		0.000575	0.00123	1	01/05/2021 23:06	WG1601232
Toluene	U		0.00160	0.00615	1	01/05/2021 23:06	WG1601232
Ethylbenzene	U		0.000907	0.00308	1	01/05/2021 23:06	WG1601232
Total Xylenes	0.00151	J	0.00108	0.00800	1	01/05/2021 23:06	WG1601232
(S) Toluene-d8	*93.2*			*75.0-131*		*01/05/2021 23:06*	WG1601232
(S) 4-Bromofluorobenzene	*100*			*67.0-138*		*01/05/2021 23:06*	WG1601232
(S) 1,2-Dichloroethane-d4	*99.0*			*70.0-130*		*01/05/2021 23:06*	WG1601232

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.56	J	1.80	4.46	1	01/07/2021 04:59	WG1601568
C28-C40 Oil Range	6.76		0.306	4.46	1	01/07/2021 04:59	WG1601568
(S) o-Terphenyl	*60.7*			*18.0-148*		*01/07/2021 04:59*	WG1601568

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	01/07/2021 07:48	WG1601652

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	9380		206	447	20	01/06/2021 14:29	WG1600973

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	0.0591	B J	0.0242	0.112	1	01/05/2021 18:15	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-120*		*01/05/2021 18:15*	WG1601125

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		0.000576	0.00123	1	01/05/2021 23:25	WG1601232
Toluene	U		0.00160	0.00617	1	01/05/2021 23:25	WG1601232
Ethylbenzene	U		0.000910	0.00309	1	01/05/2021 23:25	WG1601232
Total Xylenes	U		0.00109	0.00802	1	01/05/2021 23:25	WG1601232
(S) Toluene-d8	*94.6*			*75.0-131*		*01/05/2021 23:25*	WG1601232
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*01/05/2021 23:25*	WG1601232
(S) 1,2-Dichloroethane-d4	*98.2*			*70.0-130*		*01/05/2021 23:25*	WG1601232

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.88		1.80	4.47	1	01/07/2021 05:38	WG1601568
C28-C40 Oil Range	6.02		0.306	4.47	1	01/07/2021 05:38	WG1601568
(S) o-Terphenyl	*52.5*			*18.0-148*		*01/07/2021 05:38*	WG1601568

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.9		1	01/07/2021 07:48	WG1601652

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	5720		114	247	10	01/06/2021 14:38	WG1600973

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	0.0528	B J	0.0268	0.124	1	01/05/2021 18:38	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*77.0-120*		*01/05/2021 18:38*	WG1601125

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		0.000688	0.00147	1	01/05/2021 23:43	WG1601232
Toluene	U		0.00191	0.00736	1	01/05/2021 23:43	WG1601232
Ethylbenzene	U		0.00109	0.00368	1	01/05/2021 23:43	WG1601232
Total Xylenes	U		0.00130	0.00957	1	01/05/2021 23:43	WG1601232
(S) Toluene-d8	*95.3*			*75.0-131*		*01/05/2021 23:43*	WG1601232
(S) 4-Bromofluorobenzene	*96.9*			*67.0-138*		*01/05/2021 23:43*	WG1601232
(S) 1,2-Dichloroethane-d4	*96.5*			*70.0-130*		*01/05/2021 23:43*	WG1601232

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	01/07/2021 05:51	WG1601568
C28-C40 Oil Range	1.41	J	0.339	4.94	1	01/07/2021 05:51	WG1601568
(S) o-Terphenyl	*49.1*			*18.0-148*		*01/07/2021 05:51*	WG1601568

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.9		1	01/07/2021 07:48	WG1601652

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	12800		214	466	20	01/06/2021 14:48	WG1600973

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	0.0488	B J	0.0253	0.116	1	01/05/2021 19:01	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*97.2*			*77.0-120*		*01/05/2021 19:01*	WG1601125

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		0.000621	0.00133	1	01/06/2021 00:02	WG1601232
Toluene	U		0.00173	0.00665	1	01/06/2021 00:02	WG1601232
Ethylbenzene	U		0.000980	0.00332	1	01/06/2021 00:02	WG1601232
Total Xylenes	U		0.00117	0.00864	1	01/06/2021 00:02	WG1601232
(S) Toluene-d8	*94.5*			*75.0-131*		*01/06/2021 00:02*	WG1601232
(S) 4-Bromofluorobenzene	*95.1*			*67.0-138*		*01/06/2021 00:02*	WG1601232
(S) 1,2-Dichloroethane-d4	*96.9*			*70.0-130*		*01/06/2021 00:02*	WG1601232

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	4.66	1	01/07/2021 06:05	WG1601568
C28-C40 Oil Range	0.687	J	0.319	4.66	1	01/07/2021 06:05	WG1601568
(S) o-Terphenyl	*59.8*			*18.0-148*		*01/07/2021 06:05*	WG1601568

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	01/07/2021 07:48	WG1601652

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	5120		104	225	10	01/06/2021 14:57	WG1600973

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	0.0553	B J	0.0244	0.113	1	01/05/2021 19:24	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-120*		*01/05/2021 19:24*	WG1601125

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		0.000585	0.00125	1	01/06/2021 00:21	WG1601232
Toluene	U		0.00163	0.00626	1	01/06/2021 00:21	WG1601232
Ethylbenzene	U		0.000923	0.00313	1	01/06/2021 00:21	WG1601232
Total Xylenes	U		0.00110	0.00814	1	01/06/2021 00:21	WG1601232
(S) Toluene-d8	*95.6*			*75.0-131*		*01/06/2021 00:21*	WG1601232
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*01/06/2021 00:21*	WG1601232
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*01/06/2021 00:21*	WG1601232

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		1.81	4.50	1	01/07/2021 12:03	WG1601568
C28-C40 Oil Range	1.28	J	0.308	4.50	1	01/07/2021 12:03	WG1601568
(S) o-Terphenyl	*56.9*			*18.0-148*		*01/07/2021 12:03*	WG1601568

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.1		1	01/07/2021 07:48	WG1601652

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	4120		118	256	10	01/06/2021 15:07	WG1600973

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	0.0636	B J	0.0278	0.128	1	01/05/2021 20:05	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*77.0-120*		*01/05/2021 20:05*	WG1601125

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	0.00101	J	0.000729	0.00156	1	01/06/2021 00:39	WG1601232
Toluene	U		0.00203	0.00781	1	01/06/2021 00:39	WG1601232
Ethylbenzene	U		0.00115	0.00390	1	01/06/2021 00:39	WG1601232
Total Xylenes	U		0.00137	0.0101	1	01/06/2021 00:39	WG1601232
(S) Toluene-d8	*93.4*			*75.0-131*		*01/06/2021 00:39*	WG1601232
(S) 4-Bromofluorobenzene	*97.2*			*67.0-138*		*01/06/2021 00:39*	WG1601232
(S) 1,2-Dichloroethane-d4	*98.7*			*70.0-130*		*01/06/2021 00:39*	WG1601232

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		2.06	5.12	1	01/07/2021 12:16	WG1601568
C28-C40 Oil Range	2.97	J	0.351	5.12	1	01/07/2021 12:16	WG1601568
(S) o-Terphenyl	*55.4*			*18.0-148*		*01/07/2021 12:16*	WG1601568

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.3		1	01/07/2021 07:48	WG1601652

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	6540		224	486	20	01/06/2021 15:16	WG1600973

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	0.0452	B J	0.0264	0.122	1	01/05/2021 20:28	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*77.0-120*		*01/05/2021 20:28*	WG1601125

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		0.000668	0.00143	1	01/06/2021 00:58	WG1601232
Toluene	U		0.00186	0.00716	1	01/06/2021 00:58	WG1601232
Ethylbenzene	U		0.00105	0.00358	1	01/06/2021 00:58	WG1601232
Total Xylenes	U		0.00126	0.00930	1	01/06/2021 00:58	WG1601232
(S) Toluene-d8	*96.1*			*75.0-131*		*01/06/2021 00:58*	WG1601232
(S) 4-Bromofluorobenzene	*98.2*			*67.0-138*		*01/06/2021 00:58*	WG1601232
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*01/06/2021 00:58*	WG1601232

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	01/07/2021 05:28	WG1601569
C28-C40 Oil Range	0.721	J	0.333	4.86	1	01/07/2021 05:28	WG1601569
(S) o-Terphenyl	*45.0*			*18.0-148*		*01/07/2021 05:28*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	77.5		1	01/07/2021 07:48	WG1601652

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	11700		237	516	20	01/06/2021 15:45	WG1600973

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		0.0280	0.129	1	01/10/2021 15:05	WG1603305
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-120*		*01/10/2021 15:05*	WG1603305

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		0.000739	0.00158	1	01/06/2021 01:16	WG1601232
Toluene	U		0.00206	0.00791	1	01/06/2021 01:16	WG1601232
Ethylbenzene	U		0.00117	0.00395	1	01/06/2021 01:16	WG1601232
Total Xylenes	U		0.00139	0.0103	1	01/06/2021 01:16	WG1601232
(S) Toluene-d8	*93.9*			*75.0-131*		*01/06/2021 01:16*	WG1601232
(S) 4-Bromofluorobenzene	*98.1*			*67.0-138*		*01/06/2021 01:16*	WG1601232
(S) 1,2-Dichloroethane-d4	*97.4*			*70.0-130*		*01/06/2021 01:16*	WG1601232

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		2.08	5.16	1	01/07/2021 05:41	WG1601569
C28-C40 Oil Range	0.810	J	0.354	5.16	1	01/07/2021 05:41	WG1601569
(S) o-Terphenyl	*67.8*			*18.0-148*		*01/07/2021 05:41*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.9		1	01/07/2021 07:48	WG1601652

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	7250		112	244	10	01/06/2021 15:54	WG1600973

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	0.0458	B J	0.0265	0.122	1	01/05/2021 21:15	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*96.7*			*77.0-120*		*01/05/2021 21:15*	WG1601125

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		0.000674	0.00144	1	01/06/2021 01:35	WG1601232
Toluene	U		0.00188	0.00721	1	01/06/2021 01:35	WG1601232
Ethylbenzene	U		0.00106	0.00361	1	01/06/2021 01:35	WG1601232
Total Xylenes	U		0.00127	0.00938	1	01/06/2021 01:35	WG1601232
(S) Toluene-d8	*93.6*			*75.0-131*		*01/06/2021 01:35*	WG1601232
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*		*01/06/2021 01:35*	WG1601232
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*01/06/2021 01:35*	WG1601232

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	01/07/2021 05:54	WG1601569
C28-C40 Oil Range	U		0.335	4.88	1	01/07/2021 05:54	WG1601569
(S) o-Terphenyl	*69.1*			*18.0-148*		*01/07/2021 05:54*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	01/08/2021 08:45	WG1601654

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	8580		206	447	20	01/06/2021 16:32	WG1600973

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	0.0456	B J	0.0243	0.112	1	01/05/2021 21:39	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*95.6*			*77.0-120*		*01/05/2021 21:39*	WG1601125

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		0.000577	0.00124	1	01/06/2021 01:54	WG1601232
Toluene	U		0.00161	0.00618	1	01/06/2021 01:54	WG1601232
Ethylbenzene	U		0.000911	0.00309	1	01/06/2021 01:54	WG1601232
Total Xylenes	U		0.00109	0.00803	1	01/06/2021 01:54	WG1601232
(S) Toluene-d8	*93.3*			*75.0-131*		*01/06/2021 01:54*	WG1601232
(S) 4-Bromofluorobenzene	*95.3*			*67.0-138*		*01/06/2021 01:54*	WG1601232
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*01/06/2021 01:54*	WG1601232

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	4.47	1	01/07/2021 06:06	WG1601569
C28-C40 Oil Range	U		0.306	4.47	1	01/07/2021 06:06	WG1601569
(S) o-Terphenyl	*49.0*			*18.0-148*		*01/07/2021 06:06*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.7		1	01/08/2021 08:45	WG1601654

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	20.9		9.32	20.3	1	01/06/2021 16:42	WG1600973

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	0.0549	B J	0.0220	0.101	1	01/05/2021 22:02	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-120*		*01/05/2021 22:02*	WG1601125

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000480	0.00103	1	01/06/2021 02:12	WG1601232
Toluene	U		0.00134	0.00514	1	01/06/2021 02:12	WG1601232
Ethylbenzene	U		0.000757	0.00257	1	01/06/2021 02:12	WG1601232
Total Xylenes	U		0.000904	0.00668	1	01/06/2021 02:12	WG1601232
(S) Toluene-d8	*93.3*			*75.0-131*		*01/06/2021 02:12*	WG1601232
(S) 4-Bromofluorobenzene	*94.5*			*67.0-138*		*01/06/2021 02:12*	WG1601232
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*		*01/06/2021 02:12*	WG1601232

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.29		1.63	4.05	1	01/07/2021 06:19	WG1601569
C28-C40 Oil Range	8.55		0.278	4.05	1	01/07/2021 06:19	WG1601569
(S) o-Terphenyl	*48.9*			*18.0-148*		*01/07/2021 06:19*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.2		1	01/08/2021 08:45	WG1601654

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.56	20.8	1	01/06/2021 16:51	WG1600973

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	0.0436	B J	0.0226	0.104	1	01/05/2021 22:25	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*77.0-120*		*01/05/2021 22:25*	WG1601125

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		0.000504	0.00108	1	01/06/2021 02:30	WG1601232
Toluene	U		0.00140	0.00539	1	01/06/2021 02:30	WG1601232
Ethylbenzene	U		0.000795	0.00270	1	01/06/2021 02:30	WG1601232
Total Xylenes	U		0.000949	0.00701	1	01/06/2021 02:30	WG1601232
(S) Toluene-d8	*94.5*			*75.0-131*		*01/06/2021 02:30*	WG1601232
(S) 4-Bromofluorobenzene	*98.9*			*67.0-138*		*01/06/2021 02:30*	WG1601232
(S) 1,2-Dichloroethane-d4	*95.2*			*70.0-130*		*01/06/2021 02:30*	WG1601232

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	1.67	4.16	1	01/07/2021 06:32	WG1601569
C28-C40 Oil Range	4.15	J	0.285	4.16	1	01/07/2021 06:32	WG1601569
(S) o-Terphenyl	*63.6*			*18.0-148*		*01/07/2021 06:32*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	01/08/2021 08:45	WG1601654

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.57	20.8	1	01/06/2021 17:01	WG1600973

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	0.0370	B J	0.0226	0.104	1	01/05/2021 22:49	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-120*		*01/05/2021 22:49*	WG1601125

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000505	0.00108	1	01/06/2021 02:49	WG1601232
Toluene	U		0.00141	0.00541	1	01/06/2021 02:49	WG1601232
Ethylbenzene	U		0.000797	0.00270	1	01/06/2021 02:49	WG1601232
Total Xylenes	U		0.000952	0.00703	1	01/06/2021 02:49	WG1601232
(S) Toluene-d8	*94.3*			*75.0-131*		*01/06/2021 02:49*	WG1601232
(S) 4-Bromofluorobenzene	*98.0*			*67.0-138*		*01/06/2021 02:49*	WG1601232
(S) 1,2-Dichloroethane-d4	*98.3*			*70.0-130*		*01/06/2021 02:49*	WG1601232

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.16	1	01/07/2021 06:45	WG1601569
C28-C40 Oil Range	2.01	J	0.285	4.16	1	01/07/2021 06:45	WG1601569
(S) o-Terphenyl	*54.8*			*18.0-148*		*01/07/2021 06:45*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.7		1	01/08/2021 08:45	WG1601654

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.62	20.9	1	01/06/2021 17:10	WG1600973

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	0.0407	B J	0.0227	0.105	1	01/05/2021 23:12	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-120*		*01/05/2021 23:12*	WG1601125

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000509	0.00109	1	01/06/2021 03:07	WG1601232
Toluene	U		0.00142	0.00545	1	01/06/2021 03:07	WG1601232
Ethylbenzene	U		0.000804	0.00273	1	01/06/2021 03:07	WG1601232
Total Xylenes	U		0.000960	0.00709	1	01/06/2021 03:07	WG1601232
(S) Toluene-d8	*94.6*			*75.0-131*		*01/06/2021 03:07*	WG1601232
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*		*01/06/2021 03:07*	WG1601232
(S) 1,2-Dichloroethane-d4	*96.8*			*70.0-130*		*01/06/2021 03:07*	WG1601232

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.18	1	01/07/2021 11:05	WG1601569
C28-C40 Oil Range	3.50	J	0.286	4.18	1	01/07/2021 11:05	WG1601569
(S) o-Terphenyl	*55.6*			*18.0-148*		*01/07/2021 11:05*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	01/08/2021 08:45	WG1601654

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.50	20.6	1	01/06/2021 17:39	WG1600973

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	0.0417	B J	0.0224	0.103	1	01/05/2021 23:36	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*77.0-120*		*01/05/2021 23:36*	WG1601125

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000497	0.00106	1	01/06/2021 03:26	WG1601232
Toluene	U		0.00138	0.00532	1	01/06/2021 03:26	WG1601232
Ethylbenzene	U		0.000784	0.00266	1	01/06/2021 03:26	WG1601232
Total Xylenes	U		0.000937	0.00692	1	01/06/2021 03:26	WG1601232
(S) Toluene-d8	*93.6*			*75.0-131*		*01/06/2021 03:26*	WG1601232
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*		*01/06/2021 03:26*	WG1601232
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*01/06/2021 03:26*	WG1601232

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	8.40		1.66	4.13	1	01/07/2021 11:17	WG1601569
C28-C40 Oil Range	9.63		0.283	4.13	1	01/07/2021 11:17	WG1601569
(S) o-Terphenyl	*63.2*			*18.0-148*		*01/07/2021 11:17*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.2		1	01/08/2021 08:45	WG1601654

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.57	20.8	1	01/06/2021 17:48	WG1600973

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	0.0471	B J	0.0226	0.104	1	01/05/2021 23:59	WG1601125
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*77.0-120*		*01/05/2021 23:59*	WG1601125

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		0.000504	0.00108	1	01/06/2021 03:45	WG1601232
Toluene	U		0.00140	0.00540	1	01/06/2021 03:45	WG1601232
Ethylbenzene	U		0.000796	0.00270	1	01/06/2021 03:45	WG1601232
Total Xylenes	U		0.000950	0.00702	1	01/06/2021 03:45	WG1601232
(S) Toluene-d8	*93.6*			*75.0-131*		*01/06/2021 03:45*	WG1601232
(S) 4-Bromofluorobenzene	*97.6*			*67.0-138*		*01/06/2021 03:45*	WG1601232
(S) 1,2-Dichloroethane-d4	*98.6*			*70.0-130*		*01/06/2021 03:45*	WG1601232

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	4.16	1	01/07/2021 11:30	WG1601569
C28-C40 Oil Range	4.86		0.285	4.16	1	01/07/2021 11:30	WG1601569
(S) o-Terphenyl	*51.4*			*18.0-148*		*01/07/2021 11:30*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.6		1	01/08/2021 08:45	WG1601654

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	11.6	J	9.73	21.1	1	01/06/2021 17:58	WG1600973

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.106	1	01/06/2021 15:13	WG1601402
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*77.0-120*		*01/06/2021 15:13*	WG1601402

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000520	0.00111	1	01/06/2021 04:03	WG1601232
Toluene	U		0.00145	0.00557	1	01/06/2021 04:03	WG1601232
Ethylbenzene	U		0.000821	0.00279	1	01/06/2021 04:03	WG1601232
Total Xylenes	U		0.000981	0.00724	1	01/06/2021 04:03	WG1601232
(S) Toluene-d8	*96.1*			*75.0-131*		*01/06/2021 04:03*	WG1601232
(S) 4-Bromofluorobenzene	*93.3*			*67.0-138*		*01/06/2021 04:03*	WG1601232
(S) 1,2-Dichloroethane-d4	*94.4*			*70.0-130*		*01/06/2021 04:03*	WG1601232

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U	J3 J6	1.70	4.23	1	01/07/2021 11:43	WG1601569
C28-C40 Oil Range	8.30		0.290	4.23	1	01/07/2021 11:43	WG1601569
(S) o-Terphenyl	*67.0*			*18.0-148*		*01/07/2021 11:43*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	01/08/2021 08:45	WG1601654

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	14.3	J	9.64	21.0	1	01/06/2021 18:07	WG1600973

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1	01/06/2021 15:34	WG1601402
(S) a,a,a-Trifluorotoluene(FID)	*93.8*			*77.0-120*		*01/06/2021 15:34*	WG1601402

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	0.000630	J	0.000512	0.00110	1	01/06/2021 04:22	WG1601232
Toluene	U		0.00142	0.00548	1	01/06/2021 04:22	WG1601232
Ethylbenzene	U		0.000808	0.00274	1	01/06/2021 04:22	WG1601232
Total Xylenes	U		0.000965	0.00712	1	01/06/2021 04:22	WG1601232
(S) Toluene-d8	*93.8*			*75.0-131*		*01/06/2021 04:22*	WG1601232
(S) 4-Bromofluorobenzene	*96.8*			*67.0-138*		*01/06/2021 04:22*	WG1601232
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*01/06/2021 04:22*	WG1601232

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.19	1	01/07/2021 12:21	WG1601569
C28-C40 Oil Range	8.57		0.287	4.19	1	01/07/2021 12:21	WG1601569
(S) o-Terphenyl	*63.0*			*18.0-148*		*01/07/2021 12:21*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.1		1	01/07/2021 07:38	WG1601648

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.29	20.2	1	01/06/2021 18:17	WG1600973

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	01/06/2021 15:54	WG1601402
(S) a,a,a-Trifluorotoluene(FID)	*94.8*			*77.0-120*		*01/06/2021 15:54*	WG1601402

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000476	0.00102	1	01/06/2021 04:40	WG1601232
Toluene	U		0.00132	0.00509	1	01/06/2021 04:40	WG1601232
Ethylbenzene	U		0.000751	0.00255	1	01/06/2021 04:40	WG1601232
Total Xylenes	U		0.000896	0.00662	1	01/06/2021 04:40	WG1601232
(S) Toluene-d8	*94.2*			*75.0-131*		*01/06/2021 04:40*	WG1601232
(S) 4-Bromofluorobenzene	*96.2*			*67.0-138*		*01/06/2021 04:40*	WG1601232
(S) 1,2-Dichloroethane-d4	*99.2*			*70.0-130*		*01/06/2021 04:40*	WG1601232

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	2.16	J	1.63	4.04	1	01/07/2021 12:34	WG1601569
C28-C40 Oil Range	5.35		0.277	4.04	1	01/07/2021 12:34	WG1601569
(S) o-Terphenyl	*62.6*			*18.0-148*		*01/07/2021 12:34*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	01/07/2021 07:14	WG1601667

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	30.3		10.0	21.8	1	01/06/2021 18:27	WG1600973

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	01/06/2021 16:15	WG1601402
(S) a,a,a-Trifluorotoluene(FID)	*96.4*			*77.0-120*		*01/06/2021 16:15*	WG1601402

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		0.000553	0.00118	1	01/10/2021 13:42	WG1603315
Toluene	U		0.00154	0.00592	1	01/10/2021 13:42	WG1603315
Ethylbenzene	0.00426		0.000872	0.00296	1	01/10/2021 13:42	WG1603315
Total Xylenes	0.00175	J	0.00104	0.00769	1	01/10/2021 13:42	WG1603315
(S) Toluene-d8	*107*			*75.0-131*		*01/10/2021 13:42*	WG1603315
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*01/10/2021 13:42*	WG1603315
(S) 1,2-Dichloroethane-d4	*85.4*			*70.0-130*		*01/10/2021 13:42*	WG1603315

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	01/07/2021 12:46	WG1601569
C28-C40 Oil Range	1.62	J	0.299	4.37	1	01/07/2021 12:46	WG1601569
(S) o-Terphenyl	*53.0*			*18.0-148*		*01/07/2021 12:46*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.9		1	01/07/2021 07:14	WG1601667

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	21.6	J	10.5	22.7	1	01/07/2021 00:13	WG1601143

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		0.0247	0.114	1	01/06/2021 16:36	WG1601402
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*01/06/2021 16:36*	WG1601402

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		0.000595	0.00127	1	01/06/2021 08:39	WG1601347
Toluene	U		0.00166	0.00637	1	01/06/2021 08:39	WG1601347
Ethylbenzene	U		0.000939	0.00319	1	01/06/2021 08:39	WG1601347
Total Xylenes	U		0.00112	0.00828	1	01/06/2021 08:39	WG1601347
(S) Toluene-d8	*108*			*75.0-131*		*01/06/2021 08:39*	WG1601347
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*01/06/2021 08:39*	WG1601347
(S) 1,2-Dichloroethane-d4	*78.9*			*70.0-130*		*01/06/2021 08:39*	WG1601347

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		1.83	4.55	1	01/07/2021 12:59	WG1601569
C28-C40 Oil Range	4.49	J	0.312	4.55	1	01/07/2021 12:59	WG1601569
(S) o-Terphenyl	*72.8*			*18.0-148*		*01/07/2021 12:59*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	01/07/2021 07:14	WG1601667

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.64	20.9	1	01/07/2021 00:45	WG1601143

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1	01/06/2021 16:56	WG1601402
(S) a,a,a-Trifluorotoluene(FID)	*95.4*			*77.0-120*		*01/06/2021 16:56*	WG1601402

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		0.000511	0.00110	1	01/06/2021 08:58	WG1601347
Toluene	U		0.00142	0.00548	1	01/06/2021 08:58	WG1601347
Ethylbenzene	U		0.000807	0.00274	1	01/06/2021 08:58	WG1601347
Total Xylenes	U		0.000964	0.00712	1	01/06/2021 08:58	WG1601347
(S) Toluene-d8	*108*			*75.0-131*		*01/06/2021 08:58*	WG1601347
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*01/06/2021 08:58*	WG1601347
(S) 1,2-Dichloroethane-d4	*83.7*			*70.0-130*		*01/06/2021 08:58*	WG1601347

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.19	1	01/07/2021 13:12	WG1601569
C28-C40 Oil Range	3.82	J	0.287	4.19	1	01/07/2021 13:12	WG1601569
(S) o-Terphenyl	*61.0*			*18.0-148*		*01/07/2021 13:12*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.1		1	01/07/2021 07:14	WG1601667

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	53.9		11.2	24.4	1	01/07/2021 01:02	WG1601143

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		0.0264	0.122	1	01/06/2021 17:17	WG1601402
(S) a,a,a-Trifluorotoluene(FID)	*90.7*			*77.0-120*		*01/06/2021 17:17*	WG1601402

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		0.000671	0.00144	1	01/06/2021 09:18	WG1601347
Toluene	U		0.00187	0.00719	1	01/06/2021 09:18	WG1601347
Ethylbenzene	U		0.00106	0.00359	1	01/06/2021 09:18	WG1601347
Total Xylenes	U		0.00127	0.00935	1	01/06/2021 09:18	WG1601347
(S) Toluene-d8	*111*			*75.0-131*		*01/06/2021 09:18*	WG1601347
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*01/06/2021 09:18*	WG1601347
(S) 1,2-Dichloroethane-d4	*78.9*			*70.0-130*		*01/06/2021 09:18*	WG1601347

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.61	J	1.96	4.87	1	01/07/2021 13:25	WG1601569
C28-C40 Oil Range	5.99		0.334	4.87	1	01/07/2021 13:25	WG1601569
(S) o-Terphenyl	*74.1*			*18.0-148*		*01/07/2021 13:25*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	81.9		1	01/07/2021 07:14	WG1601667

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	45.7		11.2	24.4	1	01/07/2021 01:18	WG1601143

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	01/06/2021 17:38	WG1601402
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*77.0-120*		*01/06/2021 17:38*	WG1601402

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		0.000674	0.00144	1	01/06/2021 09:37	WG1601347
Toluene	U		0.00188	0.00721	1	01/06/2021 09:37	WG1601347
Ethylbenzene	U		0.00106	0.00361	1	01/06/2021 09:37	WG1601347
Total Xylenes	U		0.00127	0.00938	1	01/06/2021 09:37	WG1601347
(S) Toluene-d8	*110*			*75.0-131*		*01/06/2021 09:37*	WG1601347
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/06/2021 09:37*	WG1601347
(S) 1,2-Dichloroethane-d4	*79.5*			*70.0-130*		*01/06/2021 09:37*	WG1601347

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	01/07/2021 13:37	WG1601569
C28-C40 Oil Range	2.66	J	0.335	4.88	1	01/07/2021 13:37	WG1601569
(S) o-Terphenyl	*48.0*			*18.0-148*		*01/07/2021 13:37*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.0		1	01/07/2021 07:14	WG1601667

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.49	20.6	1	01/07/2021 01:35	WG1601143

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	01/06/2021 17:58	WG1601402
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*		*01/06/2021 17:58*	WG1601402

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		0.000496	0.00106	1	01/06/2021 09:56	WG1601347
Toluene	U		0.00138	0.00531	1	01/06/2021 09:56	WG1601347
Ethylbenzene	U		0.000783	0.00266	1	01/06/2021 09:56	WG1601347
Total Xylenes	U		0.000935	0.00691	1	01/06/2021 09:56	WG1601347
(S) Toluene-d8	*111*			*75.0-131*		*01/06/2021 09:56*	WG1601347
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*01/06/2021 09:56*	WG1601347
(S) 1,2-Dichloroethane-d4	*80.0*			*70.0-130*		*01/06/2021 09:56*	WG1601347

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	1.93	J	1.66	4.13	1	01/07/2021 13:50	WG1601569
C28-C40 Oil Range	6.61		0.283	4.13	1	01/07/2021 13:50	WG1601569
(S) o-Terphenyl	*41.2*			*18.0-148*		*01/07/2021 13:50*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.2		1	01/07/2021 07:14	WG1601667

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	19.4	J	11.1	24.0	1	01/07/2021 01:51	WG1601143

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	01/06/2021 16:23	WG1601542
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*01/06/2021 16:23*	WG1601542

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		0.000656	0.00140	1	01/06/2021 10:15	WG1601347
Toluene	U		0.00182	0.00702	1	01/06/2021 10:15	WG1601347
Ethylbenzene	U		0.00103	0.00351	1	01/06/2021 10:15	WG1601347
Total Xylenes	U		0.00124	0.00912	1	01/06/2021 10:15	WG1601347
(S) Toluene-d8	*113*			*75.0-131*		*01/06/2021 10:15*	WG1601347
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/06/2021 10:15*	WG1601347
(S) 1,2-Dichloroethane-d4	*78.3*			*70.0-130*		*01/06/2021 10:15*	WG1601347

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		1.93	4.81	1	01/07/2021 14:03	WG1601569
C28-C40 Oil Range	2.16	J	0.329	4.81	1	01/07/2021 14:03	WG1601569
(S) o-Terphenyl	*62.2*			*18.0-148*		*01/07/2021 14:03*	WG1601569

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.8		1	01/07/2021 07:14	WG1601667

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	46.3		11.0	23.9	1	01/07/2021 02:07	WG1601143

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		0.0259	0.119	1	01/06/2021 16:45	WG1601542
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*01/06/2021 16:45*	WG1601542

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		0.000647	0.00139	1	01/06/2021 10:34	WG1601347
Toluene	U		0.00180	0.00693	1	01/06/2021 10:34	WG1601347
Ethylbenzene	U		0.00102	0.00347	1	01/06/2021 10:34	WG1601347
Total Xylenes	U		0.00122	0.00901	1	01/06/2021 10:34	WG1601347
(S) Toluene-d8	*113*			*75.0-131*		*01/06/2021 10:34*	WG1601347
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*01/06/2021 10:34*	WG1601347
(S) 1,2-Dichloroethane-d4	*76.6*			*70.0-130*		*01/06/2021 10:34*	WG1601347

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		1.92	4.77	1	01/07/2021 14:16	WG1601570
C28-C40 Oil Range	0.429	J	0.327	4.77	1	01/07/2021 14:16	WG1601570
(S) o-Terphenyl	*51.8*			*18.0-148*		*01/07/2021 14:16*	WG1601570

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.0		1	01/07/2021 07:14	WG1601667

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	54.1		10.7	23.2	1	01/07/2021 02:57	WG1601143

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		0.0252	0.116	1	01/06/2021 17:08	WG1601542
(S) a,a,a-Trifluorotoluene(FID)	*105*			*77.0-120*		*01/06/2021 17:08*	WG1601542

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		0.000619	0.00132	1	01/06/2021 10:53	WG1601347
Toluene	U		0.00172	0.00662	1	01/06/2021 10:53	WG1601347
Ethylbenzene	U		0.000976	0.00331	1	01/06/2021 10:53	WG1601347
Total Xylenes	U		0.00117	0.00861	1	01/06/2021 10:53	WG1601347
(S) Toluene-d8	*111*			*75.0-131*		*01/06/2021 10:53*	WG1601347
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/06/2021 10:53*	WG1601347
(S) 1,2-Dichloroethane-d4	*79.8*			*70.0-130*		*01/06/2021 10:53*	WG1601347

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	4.65	1	01/07/2021 14:29	WG1601570
C28-C40 Oil Range	U		0.318	4.65	1	01/07/2021 14:29	WG1601570
(S) o-Terphenyl	*55.7*			*18.0-148*		*01/07/2021 14:29*	WG1601570

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	01/07/2021 07:14	WG1601667

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	76.2		11.1	24.2	1	01/07/2021 03:13	WG1601143

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	01/06/2021 17:46	WG1601542
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-120*		*01/06/2021 17:46*	WG1601542

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		0.000663	0.00142	1	01/06/2021 11:12	WG1601347
Toluene	U		0.00185	0.00710	1	01/06/2021 11:12	WG1601347
Ethylbenzene	U		0.00105	0.00355	1	01/06/2021 11:12	WG1601347
Total Xylenes	U		0.00125	0.00923	1	01/06/2021 11:12	WG1601347
(S) Toluene-d8	*113*			*75.0-131*		*01/06/2021 11:12*	WG1601347
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*01/06/2021 11:12*	WG1601347
(S) 1,2-Dichloroethane-d4	*77.1*			*70.0-130*		*01/06/2021 11:12*	WG1601347

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		1.95	4.84	1	01/07/2021 14:42	WG1601570
C28-C40 Oil Range	0.420	J	0.332	4.84	1	01/07/2021 14:42	WG1601570
(S) o-Terphenyl	*44.1*			*18.0-148*		*01/07/2021 14:42*	WG1601570

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.8		1	01/07/2021 07:04	WG1601670

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	1100		48.5	105	5	01/07/2021 04:19	WG1601143

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.105	1	01/06/2021 18:08	WG1601542
(S) a,a,a-Trifluorotoluene(FID)	*98.5*			*77.0-120*		*01/06/2021 18:08*	WG1601542

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000518	0.00111	1	01/06/2021 11:31	WG1601347
Toluene	U		0.00144	0.00555	1	01/06/2021 11:31	WG1601347
Ethylbenzene	U		0.000818	0.00278	1	01/06/2021 11:31	WG1601347
Total Xylenes	U		0.000977	0.00722	1	01/06/2021 11:31	WG1601347
(S) Toluene-d8	*112*			*75.0-131*		*01/06/2021 11:31*	WG1601347
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*01/06/2021 11:31*	WG1601347
(S) 1,2-Dichloroethane-d4	*77.6*			*70.0-130*		*01/06/2021 11:31*	WG1601347

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.77	J	1.70	4.22	1	01/07/2021 14:56	WG1601570
C28-C40 Oil Range	2.67	J	0.289	4.22	1	01/07/2021 14:56	WG1601570
(S) o-Terphenyl	*58.1*			*18.0-148*		*01/07/2021 14:56*	WG1601570

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.2		1	01/07/2021 07:04	WG1601670

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	1030		48.8	106	5	01/07/2021 04:35	WG1601143

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	01/06/2021 18:31	WG1601542
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-120*		*01/06/2021 18:31*	WG1601542

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		0.000524	0.00112	1	01/06/2021 11:51	WG1601347
Toluene	U		0.00146	0.00561	1	01/06/2021 11:51	WG1601347
Ethylbenzene	U		0.000827	0.00281	1	01/06/2021 11:51	WG1601347
Total Xylenes	U		0.000988	0.00730	1	01/06/2021 11:51	WG1601347
(S) Toluene-d8	*113*			*75.0-131*		*01/06/2021 11:51*	WG1601347
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*01/06/2021 11:51*	WG1601347
(S) 1,2-Dichloroethane-d4	*77.5*			*70.0-130*		*01/06/2021 11:51*	WG1601347

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	1.98	J	1.71	4.25	1	01/07/2021 15:09	WG1601570
C28-C40 Oil Range	2.87	J	0.291	4.25	1	01/07/2021 15:09	WG1601570
(S) o-Terphenyl	*60.6*			*18.0-148*		*01/07/2021 15:09*	WG1601570

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.2		1	01/07/2021 07:04	WG1601670

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	969		48.8	106	5	01/07/2021 04:52	WG1601143

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	01/06/2021 18:53	WG1601542
(S) a,a,a-Trifluorotoluene(FID)	*97.7*			*77.0-120*		*01/06/2021 18:53*	WG1601542

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		0.000525	0.00112	1	01/06/2021 12:10	WG1601347
Toluene	U		0.00146	0.00562	1	01/06/2021 12:10	WG1601347
Ethylbenzene	U		0.000828	0.00281	1	01/06/2021 12:10	WG1601347
Total Xylenes	U		0.000989	0.00730	1	01/06/2021 12:10	WG1601347
(S) Toluene-d8	*112*			*75.0-131*		*01/06/2021 12:10*	WG1601347
(S) 4-Bromofluorobenzene	*103*			*67.0-138*		*01/06/2021 12:10*	WG1601347
(S) 1,2-Dichloroethane-d4	*79.4*			*70.0-130*		*01/06/2021 12:10*	WG1601347

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.71	4.25	1	01/07/2021 15:22	WG1601570
C28-C40 Oil Range	2.66	J	0.291	4.25	1	01/07/2021 15:22	WG1601570
(S) o-Terphenyl	*53.9*			*18.0-148*		*01/07/2021 15:22*	WG1601570

Method Blank (MB)

(MB) R3610563-1 01/07/21 07:38

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

L1301924-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1301924-16 01/07/21 07:38 • (DUP) R3610563-3 01/07/21 07:38

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.8	89.0	1	0.931		10

Laboratory Control Sample (LCS)

(LCS) R3610563-2 01/07/21 07:38

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) R3610564-1 01/07/21 07:48

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

L1302167-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1302167-02 01/07/21 07:48 • (DUP) R3610564-3 01/07/21 07:48

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.5	89.9	1	0.364		10

Laboratory Control Sample (LCS)

(LCS) R3610564-2 01/07/21 07:48

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.1	100	85.0-115	

Method Blank (MB)

(MB) R3611033-1 01/08/21 08:45

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

L1302167-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1302167-12 01/08/21 08:45 • (DUP) R3611033-3 01/08/21 08:45

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.2	96.0	1	0.265		10

Laboratory Control Sample (LCS)

(LCS) R3611033-2 01/08/21 08:45

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) R3610560-1 01/07/21 07:14

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

L1302167-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1302167-29 01/07/21 07:14 • (DUP) R3610560-3 01/07/21 07:14

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	82.6	84.0	1	1.65		10

Laboratory Control Sample (LCS)

(LCS) R3610560-2 01/07/21 07:14

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.1	100	85.0-115	

Method Blank (MB)

(MB) R3610556-1 01/07/21 07:04

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1302245-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1302245-04 01/07/21 07:04 • (DUP) R3610556-3 01/07/21 07:04

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	79.6	81.6	1	2.42		10

Laboratory Control Sample (LCS)

(LCS) R3610556-2 01/07/21 07:04

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) R3610343-1 01/06/21 12:58

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

L1302167-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1302167-01 01/06/21 14:10 • (DUP) R3610343-3 01/06/21 14:19

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	11300	11100	20	1.49		20

L1302167-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1302167-20 01/06/21 18:27 • (DUP) R3610343-6 01/06/21 18:36

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	30.3	30.7	1	1.38		20

Laboratory Control Sample (LCS)

(LCS) R3610343-2 01/06/21 13:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	200	99.9	90.0-110	

L1302167-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302167-10 01/06/21 16:04 • (MS) R3610343-4 01/06/21 16:13 • (MSD) R3610343-5 01/06/21 16:23

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	559	8390	8840	9150	81.9	137	1	80.0-120	E	E V	3.42	20

Method Blank (MB)

(MB) R3610435-1 01/06/21 21:52

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

L1302167-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1302167-21 01/07/21 00:13 • (DUP) R3610435-3 01/07/21 00:29

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	21.6	21.6	1	0.0490	J	20

L1302167-32 Original Sample (OS) • Duplicate (DUP)

(OS) L1302167-32 01/07/21 04:52 • (DUP) R3610435-6 01/07/21 05:08

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	969	990	5	2.22		20

Laboratory Control Sample (LCS)

(LCS) R3610435-2 01/06/21 22:08

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

L1302167-30 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302167-30 01/07/21 03:30 • (MS) R3610435-4 01/07/21 03:46 • (MSD) R3610435-5 01/07/21 04:03

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	527	1110	1710	1680	114	107	1	80.0-120	E	E	1.93	20

Method Blank (MB)

(MB) R3611158-2 01/05/21 15:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0887	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3611158-1 01/05/21 13:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.47	118	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

Method Blank (MB)

(MB) R3610318-2 01/06/21 12:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.6*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3610318-1 01/06/21 11:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.13	93.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*104*	*77.0-120*	

L1302245-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302245-01 01/06/21 18:19 • (MS) R3610318-3 01/06/21 20:36 • (MSD) R3610318-4 01/06/21 21:10

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	138	56.0	168	199	81.2	104	25	10.0-151			16.9	28
(S) a,a,a-Trifluorotoluene(FID)					*108*	*110*		*77.0-120*				

Method Blank (MB)

(MB) R3610492-3 01/06/21 11:21

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)	*105*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3610492-2 01/06/21 10:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.56	119	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*110*	*77.0-120*	

L1302021-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302021-01 01/06/21 16:01 • (MS) R3610492-6 01/06/21 22:13 • (MSD) R3610492-7 01/06/21 22:36

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	6.21	U	2.07	1.67	33.4	27.3	1	10.0-151			21.3	28
(S) a,a,a-Trifluorotoluene(FID)					*99.4*	*96.2*		*77.0-120*				

Method Blank (MB)

(MB) R3611349-3 01/10/21 13:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3611349-2 01/10/21 12:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.65	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*105*	*77.0-120*	

Method Blank (MB)

(MB) R3611163-2 01/05/21 19:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*95.5*			*75.0-131*
(S) 4-Bromofluorobenzene	*95.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*99.4*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3611163-1 01/05/21 18:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.138	110	70.0-123	
Ethylbenzene	0.125	0.133	106	74.0-126	
Toluene	0.125	0.133	106	75.0-121	
Xylenes, Total	0.375	0.391	104	72.0-127	
(S) Toluene-d8			*95.8*	*75.0-131*	
(S) 4-Bromofluorobenzene			*91.8*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*99.0*	*70.0-130*	

Method Blank (MB)

(MB) R3610707-3 01/06/21 03:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*111*			*75.0-131*
(S) 4-Bromofluorobenzene	*105*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*82.4*			*70.0-130*

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

(LCS) R3610707-1 01/06/21 02:26 • (LCSD) R3610707-2 01/06/21 02:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.148	0.133	118	106	70.0-123			10.7	20
Ethylbenzene	0.125	0.151	0.141	121	113	74.0-126			6.85	20
Toluene	0.125	0.142	0.129	114	103	75.0-121			9.59	20
Xylenes, Total	0.375	0.452	0.410	121	109	72.0-127			9.74	20
(S) Toluene-d8				*112*	*109*	*75.0-131*				
(S) 4-Bromofluorobenzene				*104*	*105*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*86.2*	*86.2*	*70.0-130*				

Method Blank (MB)

(MB) R3611206-3 01/10/21 13:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*98.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*90.1*			*70.0-130*

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

(LCS) R3611206-1 01/10/21 11:48 • (LCSD) R3611206-2 01/10/21 12:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.146	0.144	117	115	70.0-123			1.38	20
Ethylbenzene	0.125	0.145	0.143	116	114	74.0-126			1.39	20
Toluene	0.125	0.141	0.142	113	114	75.0-121			0.707	20
Xylenes, Total	0.375	0.456	0.443	122	118	72.0-127			2.89	20
(S) Toluene-d8				*107*	*101*	*75.0-131*				
(S) 4-Bromofluorobenzene				*105*	*99.1*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*94.1*	*94.9*	*70.0-130*				

Method Blank (MB)

(MB) R3610351-1 01/07/21 00:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*64.9*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3610351-2 01/07/21 00:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	33.2	66.4	50.0-150	
(S) o-Terphenyl			*77.0*	*18.0-148*	

L1302167-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302167-01 01/07/21 04:59 • (MS) R3610351-3 01/07/21 05:12 • (MSD) R3610351-4 01/07/21 05:25

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	53.8	3.56	35.1	38.6	58.7	63.2	1	50.0-150			9.38	20
(S) o-Terphenyl					*61.4*	*64.8*		*18.0-148*				

Method Blank (MB)

(MB) R3610366-1 01/06/21 23:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*51.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3610366-2 01/06/21 23:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	30.8	61.6	50.0-150	
(S) o-Terphenyl			*42.8*	*18.0-148*	

L1302167-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302167-17 01/07/21 11:43 • (MS) R3610366-3 01/07/21 11:55 • (MSD) R3610366-4 01/07/21 12:08

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	52.9	U	25.6	43.7	48.4	82.6	1	50.0-150	J6	J3	52.2	20
(S) o-Terphenyl					*38.6*	*62.3*		*18.0-148*				

Method Blank (MB)

(MB) R3610352-1 01/07/21 00:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*62.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3610352-2 01/07/21 00:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	33.4	66.8	50.0-150	
(S) o-Terphenyl			*77.5*	*18.0-148*	

L1302545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1302545-01 01/07/21 15:36 • (MS) R3610352-3 01/07/21 15:51 • (MSD) R3610352-4 01/07/21 16:04

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	48.5	U	28.3	29.5	58.4	62.0	1	50.0-150			4.15	20
(S) o-Terphenyl					*70.1*	*71.8*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

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	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	KY90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-20-18
Maine	TN00003	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	998093910
Montana	CERT0086	Wyoming	A2LA

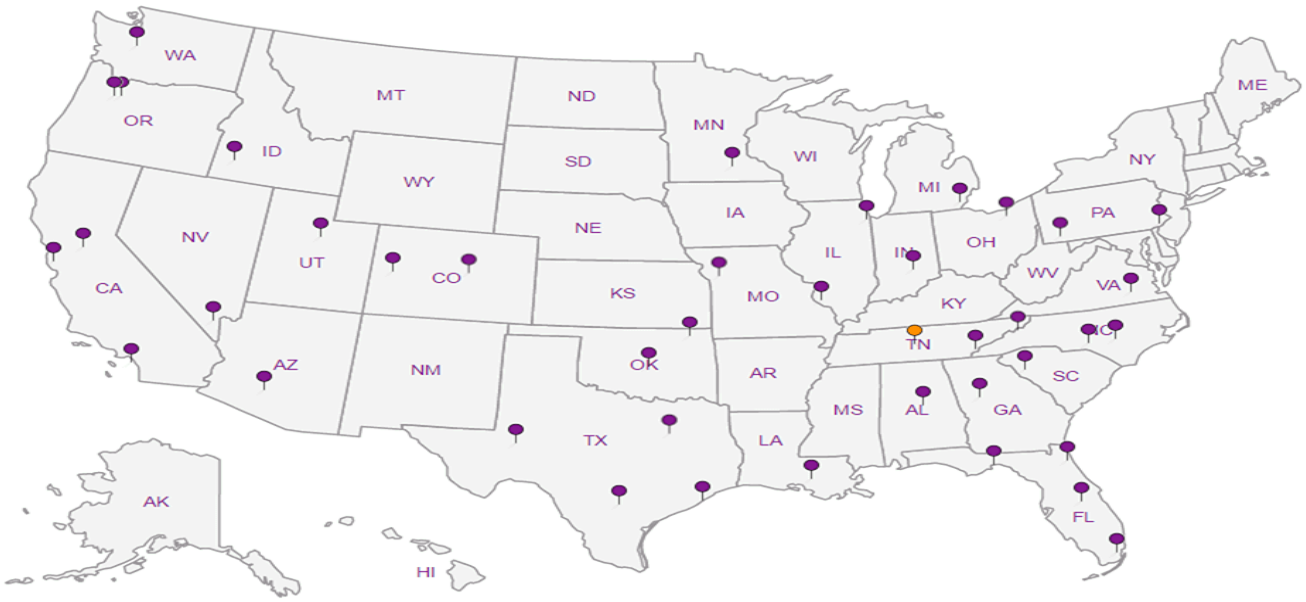
Third Party Federal Accreditations

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-

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Wilder Manifold Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02383
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		
1302167		YEAR: 2020																																
01	AH-1 (0-1')	12/29/2020	8:30 AM		X				X			1	N	X		X											X							
02	AH-1 (1-1.5')	12/29/2020	8:41 AM		X				X			1	N	X		X											X							
03	AH-1 (2-3')	12/29/2020	8:45 AM		X				X			1	N	X		X											X							
04	AH-1 (3-4')	12/29/2020	8:55 AM		X				X			1	N	X		X											X							
05	AH-1 (4-5')	12/29/2020	8:59 AM		X				X			1	N	X		X											X							
06	AH-2 (0-1')	12/29/2020	9:35 AM		X				X			1	N	X		X											X							
07	AH-2 (1-1.5')	12/29/2020	9:38 AM		X				X			1	N	X		X											X							
08	AH-2 (2-3')	12/29/2020	9:41 AM		X				X			1	N	X		X											X							
09	AH-2 (3-4')	12/29/2020	9:46 AM		X				X			1	N	X		X											X							
10	AH-2 (4-5')	12/29/2020	9:50 AM		X				X			1	N	X		X											X							

Relinquished by:	Date: 12/30/20	Time: 1530	Received by:
Relinquished by:	Date:	Time:	Received by:
			Received by:

Date: 1/4/21 Time: 0900

LAB USE ONLY
Sample Temperature

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Sample Receipt Checklist

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

ORIGINAL COPY

32-40

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-

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Wilder Manifold Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02383
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		
130267		YEAR: 2020																																
11	H-1 (0-1')	12/29/2020	10:00 AM		X				X			1	N	X		X											X							
12	H-1 (2-3')	12/29/2020	10:10 AM		X				X			1	N	X		X											X							
13	H-2 (0-1')	12/29/2020	10:20 AM		X				X			1	N	X		X											X							
14	H-2 (2-3')	12/29/2020	10:30 AM		X				X			1	N	X		X											X							
15	H-3 (0-1')	12/29/2020	10:40 AM		X				X			1	N	X		X											X							
16	H-3 (2-3')	12/29/2020	10:50 AM		X				X			1	N	X		X											X							
17	H-4 (0-1')	12/29/2020	11:00 AM		X				X			1	N	X		X											X							
18	H-4 (2-3')	12/29/2020	11:10 AM		X				X			1	N	X		X											X							
19	H-5 (0-1')	12/29/2020	11:20 AM		X				X			1	N	X		X											X							
20	H-5 (2-3')	12/29/2020	11:30 AM		X				X			1	N	X		X											X							

Relinquished by:	Date: 12/30/2	Time: 1530	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by: 1/4/21 0800

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

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

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

Analysis Request of Chain of Custody Record

Page : 3 of 4

Tetra Tech, Inc.

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

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Wilder Manifold Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02383
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY) 130267	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		
		YEAR: 2020																															
21	H-6 (0-1')	12/29/2020	11:40 AM		X				X			1	N	X		X												X					
22	H-6 (2-3')	12/29/2020	11:50 AM		X				X			1	N	X		X												X					
23	H-7 (0-1')	12/29/2020	12:30 PM		X				X			1	N	X		X												X					
24	H-7 (2-3')	12/29/2020	12:40 PM		X				X			1	N	X		X												X					
25	H-8 (0-1')	12/29/2020	12:50 PM		X				X			1	N	X		X												X					
26	H-8 (2-3')	12/29/2020	1:00 PM		X				X			1	N	X		X												X					
27	H-9 (0-1')	12/29/2020	1:10 PM		X				X			1	N	X		X												X					
28	H-9 (2-3')	12/29/2020	1:20 PM		X				X			1	N	X		X												X					
29	H-10 (0-1')	12/29/2020	1:30 PM		X				X			1	N	X		X												X					
30	H-10 (2-3')	12/29/2020	1:40 PM		X				X			1	N	X		X												X					

Relinquished by: John Thurston	Date: 12/30/20	Time: 1530	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by: Date: 1/4/21 Time: 0900

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

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

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

Analysis Request of Chain of Custody Record

Page : 4 of 4

Tetra Tech, Inc.

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

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Wilder Manifold Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02383
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		
130269																																		
31	H-11 (0-1')	12/29/2020	2:00 PM		X				X			1	N	X		X												X						
32	H-11 (2-3')	12/29/2020	2:10 PM		X				X			1	N	X		X												X						

Relinquished by:	Date: 12/30/20	Time: 1530	Received by:	Date: Time:
Relinquished by:	Date:	Time:	Received by:	Date: Time:
Relinquished by:	Date:	Time:	Received by:	Date: Time:

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

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

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

COPTETRA NCF

R1/R2

Time estimate: oh **Time spent:** oh

Members

Matthew Shacklock (responsible) Christopher McCord

- [ ] Parameter(s) past holding time
- [x] Temperature not in range
- [ ] Improper container type
- [ ] pH not in range
- [ ] Insufficient sample volume
- [ ] Sample is biphasic
- [ ] Vials received with headspace
- [ ] Broken container
- [ ] Sufficient sample remains
- [ ] If broken container: Insufficient packing material around container
- [ ] If broken container: Insufficient packing material inside cooler
- [ ] If broken container: Improper handling by carrier:_____
- [ ] If broken container: Sample was frozen
- [ ] If broken container: Container lid not intact
- [ ] Client informed by Call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [x] Date/Time:1/4/21 1428
- [x] PM initials:CM
- [x] Client Contact: Ryan Dickerson

Comments

Matthew Shacklock *4 January 2021 10:50 AM*

Received at 16 degrees. All ice melted

Christopher McCord *4 January 2021 3:59 PM*

Run as received. Do not log for rush. Log as R5 due 1/11.

Matthew Shacklock *5 January 2021 10:00 AM*

L1302167

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

February 01, 2021

ConocoPhillips - Tetra Tech

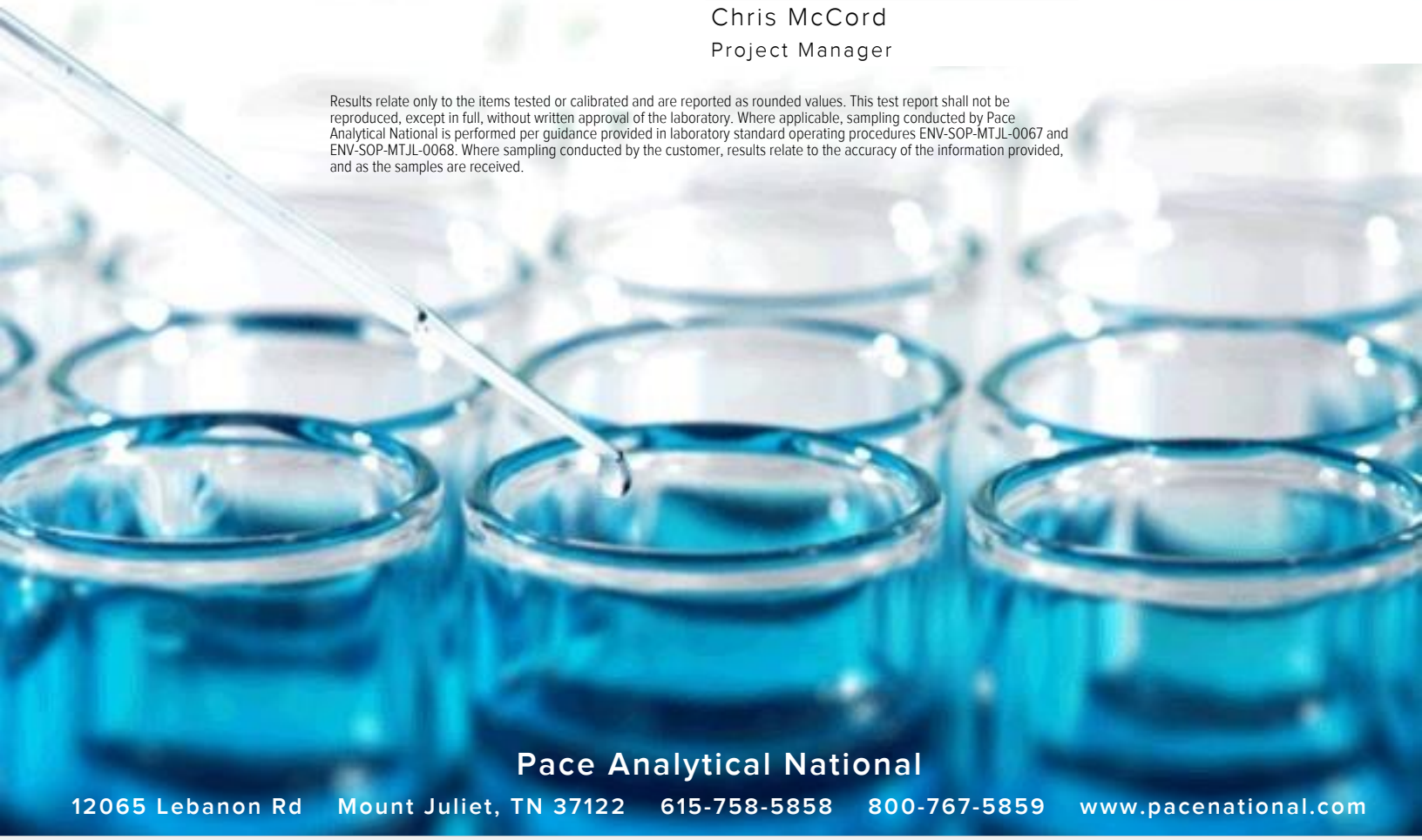
Sample Delivery Group:	L1309838
Samples Received:	01/23/2021
Project Number:	212C-MD-02383
Description:	Wilder Manifold Release

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

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

BH-1 (0-1') L1309838-01 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 10:30 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612421	1	01/28/21 13:24	01/28/21 13:35	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1610761	20	01/24/21 21:10	01/25/21 03:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 03:15	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 15:05	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612577	1	01/28/21 16:44	01/28/21 22:11	JDG	Mt. Juliet, TN

BH-1 (2-3') L1309838-02 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 10:37 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612421	1	01/28/21 13:24	01/28/21 13:35	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1610761	20	01/24/21 21:10	01/25/21 03:34	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 03:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 15:24	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612577	1	01/28/21 16:44	01/28/21 22:24	JDG	Mt. Juliet, TN

BH-1 (4-5') L1309838-03 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 10:44 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612422	1	01/28/21 11:18	01/28/21 11:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1610761	20	01/24/21 21:10	01/25/21 04:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 04:01	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 15:43	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612577	1	01/28/21 16:44	01/28/21 22:37	JDG	Mt. Juliet, TN

BH-1 (6-7') L1309838-04 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 10:51 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612422	1	01/28/21 11:18	01/28/21 11:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1610761	20	01/24/21 21:10	01/25/21 04:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 04:36	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 16:02	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612577	1	01/28/21 16:44	01/28/21 22:49	JDG	Mt. Juliet, TN

BH-1 (9-10') L1309838-05 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 10:58 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612422	1	01/28/21 11:18	01/28/21 11:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1610761	1	01/24/21 21:10	01/25/21 04:22	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 04:59	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 16:21	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612577	1	01/28/21 16:44	01/28/21 23:03	JDG	Mt. Juliet, TN

BH-1 (15') L1309838-06 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 11:05 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612422	1	01/28/21 11:18	01/28/21 11:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1610761	1	01/24/21 21:10	01/25/21 04:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 05:22	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 16:40	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612577	1	01/28/21 16:44	01/28/21 23:16	JDG	Mt. Juliet, TN

BH-1 (20') L1309838-07 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 11:12 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612422	1	01/28/21 11:18	01/28/21 11:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1610761	1	01/24/21 21:10	01/25/21 04:41	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 05:46	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 16:59	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612630	1	01/28/21 07:36	01/28/21 19:30	DMG	Mt. Juliet, TN

BH-1 (25') L1309838-08 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 11:19 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612422	1	01/28/21 11:18	01/28/21 11:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1610761	1	01/24/21 21:10	01/25/21 04:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 06:09	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 17:18	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612630	1	01/28/21 07:36	01/28/21 19:44	DMG	Mt. Juliet, TN

BH-1 (30') L1309838-09 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 11:26 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612422	1	01/28/21 11:18	01/28/21 11:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 13:48	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 06:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 17:37	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612630	1	01/28/21 07:36	01/28/21 19:57	DMG	Mt. Juliet, TN

BH-2 (0-1') L1309838-10 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 11:33 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612422	1	01/28/21 11:18	01/28/21 11:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	10	01/27/21 11:31	01/27/21 14:16	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 06:55	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 17:56	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612630	5	01/28/21 07:36	01/29/21 09:39	DMG	Mt. Juliet, TN

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

BH-2 (2-3') L1309838-11 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 11:33 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612422	1	01/28/21 11:18	01/28/21 11:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	10	01/27/21 11:31	01/27/21 14:35	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 07:18	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 18:15	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612630	1	01/28/21 07:36	01/28/21 20:11	DMG	Mt. Juliet, TN

BH-2 (4-5') L1309838-12 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 11:40 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612422	1	01/28/21 11:18	01/28/21 11:32	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	10	01/27/21 11:31	01/27/21 15:04	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 07:41	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 18:34	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 13:00	JDG	Mt. Juliet, TN

BH-2 (6-7') L1309838-13 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 11:47 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612423	1	01/28/21 11:09	01/28/21 11:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	10	01/27/21 11:31	01/27/21 15:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 08:13	01/29/21 08:58	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 08:13	01/28/21 18:53	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 13:26	JDG	Mt. Juliet, TN

BH-2 (9-10') L1309838-14 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 11:54 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612423	1	01/28/21 11:09	01/28/21 11:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	10	01/27/21 11:31	01/27/21 15:23	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613290	1	01/24/21 10:07	01/29/21 09:21	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1613250	1	01/24/21 10:07	01/29/21 09:39	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 01:32	DMG	Mt. Juliet, TN

BH-2 (15') L1309838-15 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 12:01 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612423	1	01/28/21 11:09	01/28/21 11:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	10	01/27/21 11:31	01/27/21 15:32	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 01:01	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 10:07	01/28/21 19:31	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 01:45	DMG	Mt. Juliet, TN

BH-2 (20') L1309838-16 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 12:35 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612423	1	01/28/21 11:09	01/28/21 11:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 15:42	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 01:23	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 10:07	01/28/21 19:49	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 01:59	DMG	Mt. Juliet, TN

BH-2 (25') L1309838-17 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 12:42 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612423	1	01/28/21 11:09	01/28/21 11:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 15:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 01:45	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 10:07	01/28/21 20:08	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 02:12	DMG	Mt. Juliet, TN

BH-2 (30') L1309838-18 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 12:49 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612423	1	01/28/21 11:09	01/28/21 11:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 16:01	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 02:07	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 10:07	01/28/21 20:27	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 02:26	DMG	Mt. Juliet, TN

H-12 (0-1') L1309838-19 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 12:56 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612423	1	01/28/21 11:09	01/28/21 11:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 16:10	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 02:29	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 10:07	01/28/21 20:46	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 02:39	DMG	Mt. Juliet, TN

H-12 (2-3') L1309838-20 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 13:03 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612423	1	01/28/21 11:09	01/28/21 11:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 16:20	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 02:51	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612733	1	01/24/21 10:07	01/28/21 21:05	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 02:58	DMG	Mt. Juliet, TN

H-12 (3-4') L1309838-21 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 13:03 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612423	1	01/28/21 11:09	01/28/21 11:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 16:29	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 03:13	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612743	1	01/24/21 10:07	01/28/21 18:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 03:11	DMG	Mt. Juliet, TN

H-12 (4-5') L1309838-22 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 13:40 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612423	1	01/28/21 11:09	01/28/21 11:17	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 16:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 03:38	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612743	1	01/24/21 10:07	01/28/21 18:57	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 03:25	DMG	Mt. Juliet, TN

H-13 (0-1') L1309838-23 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 13:47 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612424	1	01/28/21 10:18	01/28/21 10:26	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 17:07	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 04:00	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612743	1	01/24/21 10:07	01/28/21 19:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 03:38	DMG	Mt. Juliet, TN

H-13 (2-3') L1309838-24 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 13:54 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612424	1	01/28/21 10:18	01/28/21 10:26	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 17:17	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 04:22	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612743	1	01/24/21 10:07	01/28/21 19:35	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 03:52	DMG	Mt. Juliet, TN

H-13 (3-4') L1309838-25 Solid

Collected by: John Thurston | Collected date/time: 01/19/21 14:01 | Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612424	1	01/28/21 10:18	01/28/21 10:26	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 17:26	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 04:44	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612743	1	01/24/21 10:07	01/28/21 19:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 04:05	DMG	Mt. Juliet, TN

H-13 (4-5') L1309838-26 Solid

Collected by: John Thurston
Collected date/time: 01/19/21 14:08
Received date/time: 01/23/21 14:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1612424	1	01/28/21 10:18	01/28/21 10:26	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1611005	1	01/27/21 11:31	01/27/21 17:36	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1613504	1	01/24/21 10:07	01/30/21 05:06	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1612743	1	01/24/21 10:07	01/28/21 20:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1612948	1	01/28/21 14:30	01/29/21 04:18	DMG	Mt. Juliet, TN

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

Chris McCord
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.0		1	01/28/2021 13:35	WG1612421

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	8590		205	445	20	01/25/2021 03:24	WG1610761

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	0.162	B	0.0241	0.111	1	01/29/2021 03:15	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*93.0*			*77.0-120*		*01/29/2021 03:15*	WG1613290

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		0.000571	0.00122	1	01/28/2021 15:05	WG1612733
Toluene	U		0.00159	0.00612	1	01/28/2021 15:05	WG1612733
Ethylbenzene	U		0.000902	0.00306	1	01/28/2021 15:05	WG1612733
Total Xylenes	U		0.00108	0.00795	1	01/28/2021 15:05	WG1612733
(S) Toluene-d8	*107*			*75.0-131*		*01/28/2021 15:05*	WG1612733
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*01/28/2021 15:05*	WG1612733
(S) 1,2-Dichloroethane-d4	*87.8*			*70.0-130*		*01/28/2021 15:05*	WG1612733

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	12.1		1.79	4.45	1	01/28/2021 22:11	WG1612577
C28-C40 Oil Range	7.70		0.305	4.45	1	01/28/2021 22:11	WG1612577
(S) o-Terphenyl	*60.1*			*18.0-148*		*01/28/2021 22:11*	WG1612577

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.0		1	01/28/2021 13:35	WG1612421

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	6770		202	439	20	01/25/2021 03:34	WG1610761

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	0.0651	B J	0.0238	0.110	1	01/29/2021 03:38	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*77.0-120*		*01/29/2021 03:38*	WG1613290

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		0.000559	0.00120	1	01/28/2021 15:24	WG1612733
Toluene	U		0.00156	0.00599	1	01/28/2021 15:24	WG1612733
Ethylbenzene	U		0.000883	0.00299	1	01/28/2021 15:24	WG1612733
Total Xylenes	U		0.00105	0.00778	1	01/28/2021 15:24	WG1612733
(S) Toluene-d8	*107*			*75.0-131*		*01/28/2021 15:24*	WG1612733
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*01/28/2021 15:24*	WG1612733
(S) 1,2-Dichloroethane-d4	*85.2*			*70.0-130*		*01/28/2021 15:24*	WG1612733

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.39	J	1.77	4.39	1	01/28/2021 22:24	WG1612577
C28-C40 Oil Range	3.53	J	0.301	4.39	1	01/28/2021 22:24	WG1612577
(S) o-Terphenyl	*50.3*			*18.0-148*		*01/28/2021 22:24*	WG1612577

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.0		1	01/28/2021 11:32	WG1612422

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	7880		207	449	20	01/25/2021 04:02	WG1610761

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	0.0452	B J	0.0244	0.112	1	01/29/2021 04:01	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*93.0*			*77.0-120*		*01/29/2021 04:01*	WG1613290

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		0.000583	0.00125	1	01/28/2021 15:43	WG1612733
Toluene	U		0.00162	0.00624	1	01/28/2021 15:43	WG1612733
Ethylbenzene	U		0.000919	0.00312	1	01/28/2021 15:43	WG1612733
Total Xylenes	U		0.00110	0.00811	1	01/28/2021 15:43	WG1612733
(S) Toluene-d8	*109*			*75.0-131*		*01/28/2021 15:43*	WG1612733
(S) 4-Bromofluorobenzene	*113*			*67.0-138*		*01/28/2021 15:43*	WG1612733
(S) 1,2-Dichloroethane-d4	*86.5*			*70.0-130*		*01/28/2021 15:43*	WG1612733

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		1.81	4.49	1	01/28/2021 22:37	WG1612577
C28-C40 Oil Range	1.27	J	0.308	4.49	1	01/28/2021 22:37	WG1612577
(S) o-Terphenyl	*59.1*			*18.0-148*		*01/28/2021 22:37*	WG1612577

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.1		1	01/28/2021 11:32	WG1612422

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	8280		206	449	20	01/25/2021 04:12	WG1610761

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	0.0269	B J	0.0243	0.112	1	01/29/2021 04:36	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*77.0-120*		*01/29/2021 04:36*	WG1613290

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		0.000581	0.00124	1	01/28/2021 16:02	WG1612733
Toluene	U		0.00162	0.00622	1	01/28/2021 16:02	WG1612733
Ethylbenzene	U		0.000917	0.00311	1	01/28/2021 16:02	WG1612733
Total Xylenes	U		0.00110	0.00809	1	01/28/2021 16:02	WG1612733
(S) Toluene-d8	*108*			*75.0-131*		*01/28/2021 16:02*	WG1612733
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*01/28/2021 16:02*	WG1612733
(S) 1,2-Dichloroethane-d4	*89.1*			*70.0-130*		*01/28/2021 16:02*	WG1612733

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		1.81	4.49	1	01/28/2021 22:49	WG1612577
C28-C40 Oil Range	0.762	J	0.307	4.49	1	01/28/2021 22:49	WG1612577
(S) o-Terphenyl	*54.4*			*18.0-148*		*01/28/2021 22:49*	WG1612577

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.4		1	01/28/2021 11:32	WG1612422

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	676		10.1	21.9	1	01/25/2021 04:22	WG1610761

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	0.0444	B J	0.0237	0.109	1	01/29/2021 04:59	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*77.0-120*		*01/29/2021 04:59*	WG1613290

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000555	0.00119	1	01/28/2021 16:21	WG1612733
Toluene	U		0.00154	0.00594	1	01/28/2021 16:21	WG1612733
Ethylbenzene	U		0.000876	0.00297	1	01/28/2021 16:21	WG1612733
Total Xylenes	U		0.00105	0.00772	1	01/28/2021 16:21	WG1612733
(S) Toluene-d8	*107*			*75.0-131*		*01/28/2021 16:21*	WG1612733
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*01/28/2021 16:21*	WG1612733
(S) 1,2-Dichloroethane-d4	*88.2*			*70.0-130*		*01/28/2021 16:21*	WG1612733

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	01/28/2021 23:03	WG1612577
C28-C40 Oil Range	0.591	J	0.300	4.38	1	01/28/2021 23:03	WG1612577
(S) o-Terphenyl	*67.5*			*18.0-148*		*01/28/2021 23:03*	WG1612577

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.2		1	01/28/2021 11:32	WG1612422

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	399		9.76	21.2	1	01/25/2021 04:31	WG1610761

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	0.0472	B J	0.0230	0.106	1	01/29/2021 05:22	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*93.8*			*77.0-120*		*01/29/2021 05:22*	WG1613290

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		0.000524	0.00112	1	01/28/2021 16:40	WG1612733
Toluene	U		0.00146	0.00561	1	01/28/2021 16:40	WG1612733
Ethylbenzene	U		0.000827	0.00281	1	01/28/2021 16:40	WG1612733
Total Xylenes	U		0.000988	0.00730	1	01/28/2021 16:40	WG1612733
(S) Toluene-d8	*107*			*75.0-131*		*01/28/2021 16:40*	WG1612733
(S) 4-Bromofluorobenzene	*113*			*67.0-138*		*01/28/2021 16:40*	WG1612733
(S) 1,2-Dichloroethane-d4	*87.2*			*70.0-130*		*01/28/2021 16:40*	WG1612733

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	01/28/2021 23:16	WG1612577
C28-C40 Oil Range	0.483	J	0.291	4.24	1	01/28/2021 23:16	WG1612577
(S) o-Terphenyl	*65.3*			*18.0-148*		*01/28/2021 23:16*	WG1612577

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.3		1	01/28/2021 11:32	WG1612422

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	449		9.76	21.2	1	01/25/2021 04:41	WG1610761

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	0.0230	0.106	1	01/29/2021 05:46	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*94.2*			*77.0-120*		*01/29/2021 05:46*	WG1613290

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		0.000524	0.00112	1	01/28/2021 16:59	WG1612733
Toluene	U		0.00146	0.00561	1	01/28/2021 16:59	WG1612733
Ethylbenzene	U		0.000827	0.00281	1	01/28/2021 16:59	WG1612733
Total Xylenes	U		0.000987	0.00729	1	01/28/2021 16:59	WG1612733
(S) Toluene-d8	*107*			*75.0-131*		*01/28/2021 16:59*	WG1612733
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*01/28/2021 16:59*	WG1612733
(S) 1,2-Dichloroethane-d4	*87.9*			*70.0-130*		*01/28/2021 16:59*	WG1612733

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	01/28/2021 19:30	WG1612630
C28-C40 Oil Range	U		0.291	4.24	1	01/28/2021 19:30	WG1612630
(S) o-Terphenyl	*57.4*			*18.0-148*		*01/28/2021 19:30*	WG1612630

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.4		1	01/28/2021 11:32	WG1612422

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	154		9.45	20.5	1	01/25/2021 04:50	WG1610761

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	0.0940	B J	0.0223	0.103	1	01/29/2021 06:09	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*92.8*			*77.0-120*		*01/29/2021 06:09*	WG1613290

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000492	0.00105	1	01/28/2021 17:18	WG1612733
Toluene	U		0.00137	0.00527	1	01/28/2021 17:18	WG1612733
Ethylbenzene	U		0.000777	0.00264	1	01/28/2021 17:18	WG1612733
Total Xylenes	U		0.000928	0.00685	1	01/28/2021 17:18	WG1612733
(S) Toluene-d8	*108*			*75.0-131*		*01/28/2021 17:18*	WG1612733
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*01/28/2021 17:18*	WG1612733
(S) 1,2-Dichloroethane-d4	*87.3*			*70.0-130*		*01/28/2021 17:18*	WG1612733

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.91	J	1.65	4.11	1	01/28/2021 19:44	WG1612630
C28-C40 Oil Range	U		0.281	4.11	1	01/28/2021 19:44	WG1612630
(S) o-Terphenyl	*64.9*			*18.0-148*		*01/28/2021 19:44*	WG1612630

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.4		1	01/28/2021 11:32	WG1612422

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	295		9.74	21.2	1	01/27/2021 13:48	WG1611005

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	0.0721	B J	0.0230	0.106	1	01/29/2021 06:32	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*94.7*			*77.0-120*		*01/29/2021 06:32*	WG1613290

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		0.000522	0.00112	1	01/28/2021 17:37	WG1612733
Toluene	U		0.00145	0.00559	1	01/28/2021 17:37	WG1612733
Ethylbenzene	U		0.000824	0.00279	1	01/28/2021 17:37	WG1612733
Total Xylenes	U		0.000984	0.00727	1	01/28/2021 17:37	WG1612733
(S) Toluene-d8	*107*			*75.0-131*		*01/28/2021 17:37*	WG1612733
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*01/28/2021 17:37*	WG1612733
(S) 1,2-Dichloroethane-d4	*88.3*			*70.0-130*		*01/28/2021 17:37*	WG1612733

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	4.24	1	01/28/2021 19:57	WG1612630
C28-C40 Oil Range	U		0.290	4.24	1	01/28/2021 19:57	WG1612630
(S) o-Terphenyl	*53.6*			*18.0-148*		*01/28/2021 19:57*	WG1612630

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.5		1	01/28/2021 11:32	WG1612422

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	3740		97.4	212	10	01/27/2021 14:16	WG1611005

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	0.0592	B J	0.0230	0.106	1	01/29/2021 06:55	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*93.7*			*77.0-120*		*01/29/2021 06:55*	WG1613290

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		0.000522	0.00112	1	01/28/2021 17:56	WG1612733
Toluene	U		0.00145	0.00559	1	01/28/2021 17:56	WG1612733
Ethylbenzene	U		0.000824	0.00279	1	01/28/2021 17:56	WG1612733
Total Xylenes	U		0.000983	0.00726	1	01/28/2021 17:56	WG1612733
(S) Toluene-d8	*107*			*75.0-131*		*01/28/2021 17:56*	WG1612733
(S) 4-Bromofluorobenzene	*113*			*67.0-138*		*01/28/2021 17:56*	WG1612733
(S) 1,2-Dichloroethane-d4	*86.6*			*70.0-130*		*01/28/2021 17:56*	WG1612733

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	212		8.52	21.2	5	01/29/2021 09:39	WG1612630
C28-C40 Oil Range	181		1.45	21.2	5	01/29/2021 09:39	WG1612630
(S) o-Terphenyl	*97.8*			*18.0-148*		*01/29/2021 09:39*	WG1612630

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.8		1	01/28/2021 11:32	WG1612422

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	4200		99.2	216	10	01/27/2021 14:35	WG1611005

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	0.0363	B J	0.0234	0.108	1	01/29/2021 07:18	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*77.0-120*		*01/29/2021 07:18*	WG1613290

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000540	0.00116	1	01/28/2021 18:15	WG1612733
Toluene	U		0.00150	0.00578	1	01/28/2021 18:15	WG1612733
Ethylbenzene	U		0.000852	0.00289	1	01/28/2021 18:15	WG1612733
Total Xylenes	U		0.00102	0.00751	1	01/28/2021 18:15	WG1612733
(S) Toluene-d8	*106*			*75.0-131*		*01/28/2021 18:15*	WG1612733
(S) 4-Bromofluorobenzene	*109*			*67.0-138*		*01/28/2021 18:15*	WG1612733
(S) 1,2-Dichloroethane-d4	*87.2*			*70.0-130*		*01/28/2021 18:15*	WG1612733

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.97		1.74	4.31	1	01/28/2021 20:11	WG1612630
C28-C40 Oil Range	3.58	B J	0.295	4.31	1	01/28/2021 20:11	WG1612630
(S) o-Terphenyl	*63.9*			*18.0-148*		*01/28/2021 20:11*	WG1612630

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.4		1	01/28/2021 11:32	WG1612422

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	4480		97.5	212	10	01/27/2021 15:04	WG1611005

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	0.0472	B J	0.0230	0.106	1	01/29/2021 07:41	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*94.0*			*77.0-120*		*01/29/2021 07:41*	WG1613290

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		0.000523	0.00112	1	01/28/2021 18:34	WG1612733
Toluene	U		0.00146	0.00560	1	01/28/2021 18:34	WG1612733
Ethylbenzene	U		0.000825	0.00280	1	01/28/2021 18:34	WG1612733
Total Xylenes	U		0.000985	0.00728	1	01/28/2021 18:34	WG1612733
(S) Toluene-d8	*107*			*75.0-131*		*01/28/2021 18:34*	WG1612733
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*01/28/2021 18:34*	WG1612733
(S) 1,2-Dichloroethane-d4	*88.4*			*70.0-130*		*01/28/2021 18:34*	WG1612733

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.00		1.71	4.24	1	01/29/2021 13:00	WG1612948
C28-C40 Oil Range	8.20		0.290	4.24	1	01/29/2021 13:00	WG1612948
(S) o-Terphenyl	*55.6*			*18.0-148*		*01/29/2021 13:00*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.9		1	01/28/2021 11:17	WG1612423

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	7490		101	220	10	01/27/2021 15:13	WG1611005

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	0.0644	B J	0.0239	0.110	1	01/29/2021 08:58	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*77.0-120*		*01/29/2021 08:58*	WG1613290

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		0.000561	0.00120	1	01/28/2021 18:53	WG1612733
Toluene	U		0.00156	0.00601	1	01/28/2021 18:53	WG1612733
Ethylbenzene	U		0.000885	0.00300	1	01/28/2021 18:53	WG1612733
Total Xylenes	U		0.00106	0.00781	1	01/28/2021 18:53	WG1612733
(S) Toluene-d8	*107*			*75.0-131*		*01/28/2021 18:53*	WG1612733
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*01/28/2021 18:53*	WG1612733
(S) 1,2-Dichloroethane-d4	*87.9*			*70.0-130*		*01/28/2021 18:53*	WG1612733

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.78		1.77	4.40	1	01/29/2021 13:26	WG1612948
C28-C40 Oil Range	7.60		0.302	4.40	1	01/29/2021 13:26	WG1612948
(S) o-Terphenyl	*57.0*			*18.0-148*		*01/29/2021 13:26*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.7		1	01/28/2021 11:17	WG1612423

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	10600		105	228	10	01/27/2021 15:23	WG1611005

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	0.0276	B J	0.0248	0.114	1	01/29/2021 09:21	WG1613290
(S) a,a,a-Trifluorotoluene(FID)	*92.9*			*77.0-120*		*01/29/2021 09:21*	WG1613290

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		0.000598	0.00128	1	01/29/2021 09:39	WG1613250
Toluene	U		0.00167	0.00641	1	01/29/2021 09:39	WG1613250
Ethylbenzene	U		0.000944	0.00320	1	01/29/2021 09:39	WG1613250
Total Xylenes	0.00122	J	0.00113	0.00833	1	01/29/2021 09:39	WG1613250
(S) Toluene-d8	*107*			*75.0-131*		*01/29/2021 09:39*	WG1613250
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*01/29/2021 09:39*	WG1613250
(S) 1,2-Dichloroethane-d4	*86.5*			*70.0-130*		*01/29/2021 09:39*	WG1613250

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		1.84	4.56	1	01/29/2021 01:32	WG1612948
C28-C40 Oil Range	0.738	J	0.313	4.56	1	01/29/2021 01:32	WG1612948
(S) o-Terphenyl	*59.3*			*18.0-148*		*01/29/2021 01:32*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.2		1	01/28/2021 11:17	WG1612423

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	4350		99.8	217	10	01/27/2021 15:32	WG1611005

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	01/30/2021 01:01	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*01/30/2021 01:01*	WG1613504

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		0.000546	0.00117	1	01/28/2021 19:31	WG1612733
Toluene	U		0.00152	0.00585	1	01/28/2021 19:31	WG1612733
Ethylbenzene	U		0.000862	0.00292	1	01/28/2021 19:31	WG1612733
Total Xylenes	U		0.00103	0.00760	1	01/28/2021 19:31	WG1612733
(S) Toluene-d8	*108*			*75.0-131*		*01/28/2021 19:31*	WG1612733
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*01/28/2021 19:31*	WG1612733
(S) 1,2-Dichloroethane-d4	*88.4*			*70.0-130*		*01/28/2021 19:31*	WG1612733

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	01/29/2021 01:45	WG1612948
C28-C40 Oil Range	0.755	J	0.297	4.34	1	01/29/2021 01:45	WG1612948
(S) o-Terphenyl	*66.3*			*18.0-148*		*01/29/2021 01:45*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	01/28/2021 11:17	WG1612423

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	527		9.90	21.5	1	01/27/2021 15:42	WG1611005

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	01/30/2021 01:23	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*01/30/2021 01:23*	WG1613504

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		0.000539	0.00115	1	01/28/2021 19:49	WG1612733
Toluene	U		0.00150	0.00577	1	01/28/2021 19:49	WG1612733
Ethylbenzene	U		0.000850	0.00288	1	01/28/2021 19:49	WG1612733
Total Xylenes	U		0.00101	0.00750	1	01/28/2021 19:49	WG1612733
(S) Toluene-d8	*109*			*75.0-131*		*01/28/2021 19:49*	WG1612733
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*01/28/2021 19:49*	WG1612733
(S) 1,2-Dichloroethane-d4	*71.0*			*70.0-130*		*01/28/2021 19:49*	WG1612733

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		1.73	4.31	1	01/29/2021 01:59	WG1612948
C28-C40 Oil Range	0.579	J	0.295	4.31	1	01/29/2021 01:59	WG1612948
(S) o-Terphenyl	*55.0*			*18.0-148*		*01/29/2021 01:59*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.4		1	01/28/2021 11:17	WG1612423

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	123		9.74	21.2	1	01/27/2021 15:51	WG1611005

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	01/30/2021 01:45	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*01/30/2021 01:45*	WG1613504

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		0.000522	0.00112	1	01/28/2021 20:08	WG1612733
Toluene	U		0.00145	0.00559	1	01/28/2021 20:08	WG1612733
Ethylbenzene	U		0.000824	0.00279	1	01/28/2021 20:08	WG1612733
Total Xylenes	U		0.000984	0.00727	1	01/28/2021 20:08	WG1612733
(S) Toluene-d8	*110*			*75.0-131*		*01/28/2021 20:08*	WG1612733
(S) 4-Bromofluorobenzene	*106*			*67.0-138*		*01/28/2021 20:08*	WG1612733
(S) 1,2-Dichloroethane-d4	*77.1*			*70.0-130*		*01/28/2021 20:08*	WG1612733

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	4.24	1	01/29/2021 02:12	WG1612948
C28-C40 Oil Range	0.466	J	0.290	4.24	1	01/29/2021 02:12	WG1612948
(S) o-Terphenyl	*64.1*			*18.0-148*		*01/29/2021 02:12*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.1		1	01/28/2021 11:17	WG1612423

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	386		9.57	20.8	1	01/27/2021 16:01	WG1611005

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	0.0370	J	0.0226	0.104	1	01/30/2021 02:07	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*110*			*77.0-120*		*01/30/2021 02:07*	WG1613504

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000505	0.00108	1	01/28/2021 20:27	WG1612733
Toluene	U		0.00141	0.00541	1	01/28/2021 20:27	WG1612733
Ethylbenzene	U		0.000797	0.00270	1	01/28/2021 20:27	WG1612733
Total Xylenes	U		0.000952	0.00703	1	01/28/2021 20:27	WG1612733
(S) Toluene-d8	*107*			*75.0-131*		*01/28/2021 20:27*	WG1612733
(S) 4-Bromofluorobenzene	*112*			*67.0-138*		*01/28/2021 20:27*	WG1612733
(S) 1,2-Dichloroethane-d4	*89.3*			*70.0-130*		*01/28/2021 20:27*	WG1612733

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.16	1	01/29/2021 02:26	WG1612948
C28-C40 Oil Range	0.552	J	0.285	4.16	1	01/29/2021 02:26	WG1612948
(S) o-Terphenyl	*64.5*			*18.0-148*		*01/29/2021 02:26*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	01/28/2021 11:17	WG1612423

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.49	20.6	1	01/27/2021 16:10	WG1611005

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	01/30/2021 02:29	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*01/30/2021 02:29*	WG1613504

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000497	0.00106	1	01/28/2021 20:46	WG1612733
Toluene	U		0.00138	0.00532	1	01/28/2021 20:46	WG1612733
Ethylbenzene	U		0.000784	0.00266	1	01/28/2021 20:46	WG1612733
Total Xylenes	U		0.000936	0.00692	1	01/28/2021 20:46	WG1612733
(S) Toluene-d8	*107*			*75.0-131*		*01/28/2021 20:46*	WG1612733
(S) 4-Bromofluorobenzene	*111*			*67.0-138*		*01/28/2021 20:46*	WG1612733
(S) 1,2-Dichloroethane-d4	*88.0*			*70.0-130*		*01/28/2021 20:46*	WG1612733

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	4.13	1	01/29/2021 02:39	WG1612948
C28-C40 Oil Range	1.94	J	0.283	4.13	1	01/29/2021 02:39	WG1612948
(S) o-Terphenyl	*57.9*			*18.0-148*		*01/29/2021 02:39*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	01/28/2021 11:17	WG1612423

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.51	20.7	1	01/27/2021 16:20	WG1611005

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	01/30/2021 02:51	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*		*01/30/2021 02:51*	WG1613504

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000498	0.00107	1	01/28/2021 21:05	WG1612733
Toluene	U		0.00139	0.00534	1	01/28/2021 21:05	WG1612733
Ethylbenzene	U		0.000786	0.00267	1	01/28/2021 21:05	WG1612733
Total Xylenes	U		0.000939	0.00694	1	01/28/2021 21:05	WG1612733
(S) Toluene-d8	*108*			*75.0-131*		*01/28/2021 21:05*	WG1612733
(S) 4-Bromofluorobenzene	*114*			*67.0-138*		*01/28/2021 21:05*	WG1612733
(S) 1,2-Dichloroethane-d4	*88.6*			*70.0-130*		*01/28/2021 21:05*	WG1612733

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	4.13	1	01/29/2021 02:58	WG1612948
C28-C40 Oil Range	2.03	J	0.283	4.13	1	01/29/2021 02:58	WG1612948
(S) o-Terphenyl	*59.8*			*18.0-148*		*01/29/2021 02:58*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.9		1	01/28/2021 11:17	WG1612423

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.50	20.6	1	01/27/2021 16:29	WG1611005

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	01/30/2021 03:13	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*01/30/2021 03:13*	WG1613504

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000497	0.00106	1	01/28/2021 18:38	WG1612743
Toluene	U		0.00138	0.00532	1	01/28/2021 18:38	WG1612743
Ethylbenzene	U		0.000785	0.00266	1	01/28/2021 18:38	WG1612743
Total Xylenes	U		0.000937	0.00692	1	01/28/2021 18:38	WG1612743
(S) Toluene-d8	*102*			*75.0-131*		*01/28/2021 18:38*	WG1612743
(S) 4-Bromofluorobenzene	*102*			*67.0-138*		*01/28/2021 18:38*	WG1612743
(S) 1,2-Dichloroethane-d4	*89.9*			*70.0-130*		*01/28/2021 18:38*	WG1612743

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	4.13	1	01/29/2021 03:11	WG1612948
C28-C40 Oil Range	2.54	J	0.283	4.13	1	01/29/2021 03:11	WG1612948
(S) o-Terphenyl	*65.3*			*18.0-148*		*01/29/2021 03:11*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	01/28/2021 11:17	WG1612423

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	12.0	J	9.51	20.7	1	01/27/2021 16:58	WG1611005

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	01/30/2021 03:38	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*01/30/2021 03:38*	WG1613504

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	0.00107	1	01/28/2021 18:57	WG1612743
Toluene	U		0.00139	0.00534	1	01/28/2021 18:57	WG1612743
Ethylbenzene	U		0.000787	0.00267	1	01/28/2021 18:57	WG1612743
Total Xylenes	U		0.000940	0.00694	1	01/28/2021 18:57	WG1612743
(S) Toluene-d8	*98.9*			*75.0-131*		*01/28/2021 18:57*	WG1612743
(S) 4-Bromofluorobenzene	*108*			*67.0-138*		*01/28/2021 18:57*	WG1612743
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*		*01/28/2021 18:57*	WG1612743

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	4.14	1	01/29/2021 03:25	WG1612948
C28-C40 Oil Range	1.02	J	0.283	4.14	1	01/29/2021 03:25	WG1612948
(S) o-Terphenyl	*66.4*			*18.0-148*		*01/29/2021 03:25*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.4		1	01/28/2021 10:26	WG1612424

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	16.8	J	9.54	20.7	1	01/27/2021 17:07	WG1611005

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	01/30/2021 04:00	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*01/30/2021 04:00*	WG1613504

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		0.000502	0.00107	1	01/28/2021 19:16	WG1612743
Toluene	U		0.00140	0.00537	1	01/28/2021 19:16	WG1612743
Ethylbenzene	U		0.000792	0.00269	1	01/28/2021 19:16	WG1612743
Total Xylenes	U		0.000946	0.00699	1	01/28/2021 19:16	WG1612743
(S) Toluene-d8	*102*			*75.0-131*		*01/28/2021 19:16*	WG1612743
(S) 4-Bromofluorobenzene	*101*			*67.0-138*		*01/28/2021 19:16*	WG1612743
(S) 1,2-Dichloroethane-d4	*93.6*			*70.0-130*		*01/28/2021 19:16*	WG1612743

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	01/29/2021 03:38	WG1612948
C28-C40 Oil Range	1.16	J	0.284	4.15	1	01/29/2021 03:38	WG1612948
(S) o-Terphenyl	*60.8*			*18.0-148*		*01/29/2021 03:38*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.8		1	01/28/2021 10:26	WG1612424

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.51	20.7	1	01/27/2021 17:17	WG1611005

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	01/30/2021 04:22	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-120*		*01/30/2021 04:22*	WG1613504

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000498	0.00107	1	01/28/2021 19:35	WG1612743
Toluene	U		0.00139	0.00534	1	01/28/2021 19:35	WG1612743
Ethylbenzene	U		0.000787	0.00267	1	01/28/2021 19:35	WG1612743
Total Xylenes	U		0.000939	0.00694	1	01/28/2021 19:35	WG1612743
(S) Toluene-d8	*101*			*75.0-131*		*01/28/2021 19:35*	WG1612743
(S) 4-Bromofluorobenzene	*105*			*67.0-138*		*01/28/2021 19:35*	WG1612743
(S) 1,2-Dichloroethane-d4	*90.6*			*70.0-130*		*01/28/2021 19:35*	WG1612743

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	4.13	1	01/29/2021 03:52	WG1612948
C28-C40 Oil Range	1.37	J	0.283	4.13	1	01/29/2021 03:52	WG1612948
(S) o-Terphenyl	*63.2*			*18.0-148*		*01/29/2021 03:52*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.5		1	01/28/2021 10:26	WG1612424

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.53	20.7	1	01/27/2021 17:26	WG1611005

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	01/30/2021 04:44	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*01/30/2021 04:44*	WG1613504

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000501	0.00107	1	01/28/2021 19:53	WG1612743
Toluene	U		0.00139	0.00536	1	01/28/2021 19:53	WG1612743
Ethylbenzene	U		0.000790	0.00268	1	01/28/2021 19:53	WG1612743
Total Xylenes	U		0.000944	0.00697	1	01/28/2021 19:53	WG1612743
(S) Toluene-d8	*103*			*75.0-131*		*01/28/2021 19:53*	WG1612743
(S) 4-Bromofluorobenzene	*98.6*			*67.0-138*		*01/28/2021 19:53*	WG1612743
(S) 1,2-Dichloroethane-d4	*94.0*			*70.0-130*		*01/28/2021 19:53*	WG1612743

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	4.14	1	01/29/2021 04:05	WG1612948
C28-C40 Oil Range	0.798	J	0.284	4.14	1	01/29/2021 04:05	WG1612948
(S) o-Terphenyl	*65.2*			*18.0-148*		*01/29/2021 04:05*	WG1612948

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.6		1	01/28/2021 10:26	WG1612424

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.52	20.7	1	01/27/2021 17:36	WG1611005

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	0.103	1	01/30/2021 05:06	WG1613504
(S) a,a,a-Trifluorotoluene(FID)	*111*			*77.0-120*		*01/30/2021 05:06*	WG1613504

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	0.00107	1	01/28/2021 20:12	WG1612743
Toluene	U		0.00139	0.00535	1	01/28/2021 20:12	WG1612743
Ethylbenzene	U		0.000788	0.00267	1	01/28/2021 20:12	WG1612743
Total Xylenes	U		0.000941	0.00695	1	01/28/2021 20:12	WG1612743
(S) Toluene-d8	*99.1*			*75.0-131*		*01/28/2021 20:12*	WG1612743
(S) 4-Bromofluorobenzene	*107*			*67.0-138*		*01/28/2021 20:12*	WG1612743
(S) 1,2-Dichloroethane-d4	*83.4*			*70.0-130*		*01/28/2021 20:12*	WG1612743

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	4.14	1	01/29/2021 04:18	WG1612948
C28-C40 Oil Range	0.564	J	0.284	4.14	1	01/29/2021 04:18	WG1612948
(S) o-Terphenyl	*51.5*			*18.0-148*		*01/29/2021 04:18*	WG1612948

Method Blank (MB)

(MB) R3617375-1 01/28/21 13:35

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

L1309513-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1309513-10 01/28/21 13:35 • (DUP) R3617375-3 01/28/21 13:35

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	87.1	87.1	1	0.0132		10

Laboratory Control Sample (LCS)

(LCS) R3617375-2 01/28/21 13:35

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) R3617336-1 01/28/21 11:32

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

L1309838-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1309838-03 01/28/21 11:32 • (DUP) R3617336-3 01/28/21 11:32

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	89.0	89.9	1	0.987		10

Laboratory Control Sample (LCS)

(LCS) R3617336-2 01/28/21 11:32

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) R3617332-1 01/28/21 11:17

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1309838-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1309838-13 01/28/21 11:17 • (DUP) R3617332-3 01/28/21 11:17

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	90.9	91.1	1	0.207		10

Laboratory Control Sample (LCS)

(LCS) R3617332-2 01/28/21 11:17

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) R3617323-1 01/28/21 10:26

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

L1309838-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1309838-23 01/28/21 10:26 • (DUP) R3617323-3 01/28/21 10:26

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	96.4	95.9	1	0.486		10

Laboratory Control Sample (LCS)

(LCS) R3617323-2 01/28/21 10:26

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) R3615812-1 01/24/21 23:04

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

L1309832-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1309832-01 01/25/21 00:34 • (DUP) R3615812-3 01/25/21 00:43

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	879	882	1	0.378		20

L1309838-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1309838-08 01/25/21 04:50 • (DUP) R3615812-6 01/25/21 05:00

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	154	155	1	0.477		20

Laboratory Control Sample (LCS)

(LCS) R3615812-2 01/24/21 23:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	197	98.4	90.0-110	

L1309832-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1309832-10 01/25/21 02:27 • (MS) R3615812-4 01/25/21 02:37 • (MSD) R3615812-5 01/25/21 02:46

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	525	1230	1900	1870	128	122	1	80.0-120	E J5	E J5	1.74	20

Method Blank (MB)

(MB) R3616962-1 01/27/21 12:45

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

L1309838-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1309838-10 01/27/21 14:16 • (DUP) R3616962-5 01/27/21 14:26

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3740	3520	10	6.21		20

L1309838-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1309838-26 01/27/21 17:36 • (DUP) R3616962-6 01/27/21 17:46

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

Laboratory Control Sample (LCS)

(LCS) R3616962-2 01/27/21 12:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	187	93.5	90.0-110	

L1309838-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1309838-09 01/27/21 13:48 • (MS) R3616962-3 01/27/21 13:57 • (MSD) R3616962-4 01/27/21 14:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	529	295	837	800	102	95.3	1	80.0-120			4.54	20

Method Blank (MB)

(MB) R3617488-2 01/29/21 00:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0850	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*96.3*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3617488-1 01/28/21 23:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.10	92.7	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*102*	*77.0-120*	

Method Blank (MB)

(MB) R3617737-2 01/29/21 23:55

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)	*115*			*77.0-120*

Laboratory Control Sample (LCS)

(LCS) R3617737-1 01/29/21 23:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.94	89.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*100*	*77.0-120*	

Method Blank (MB)

(MB) R3617260-2 01/28/21 13:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*112*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*86.8*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3617260-1 01/28/21 12:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.118	94.4	70.0-123	
Ethylbenzene	0.125	0.118	94.4	74.0-126	
Toluene	0.125	0.116	92.8	75.0-121	
Xylenes, Total	0.375	0.355	94.7	72.0-127	
(S) Toluene-d8			*106*	*75.0-131*	
(S) 4-Bromofluorobenzene			*111*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*89.5*	*70.0-130*	

Method Blank (MB)

(MB) R3617337-3 01/28/21 18:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*89.9*			*70.0-130*

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

(LCS) R3617337-1 01/28/21 16:44 • (LCSD) R3617337-2 01/28/21 17:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.121	0.120	96.8	96.0	70.0-123			0.830	20
Ethylbenzene	0.125	0.126	0.124	101	99.2	74.0-126			1.60	20
Toluene	0.125	0.130	0.127	104	102	75.0-121			2.33	20
Xylenes, Total	0.375	0.369	0.369	98.4	98.4	72.0-127			0.000	20
(S) Toluene-d8				*104*	*102*	*75.0-131*				
(S) 4-Bromofluorobenzene				*93.7*	*96.4*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*95.7*	*94.3*	*70.0-130*				

L1309856-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1309856-04 01/29/21 00:01 • (MS) R3617337-4 01/29/21 00:39 • (MSD) R3617337-5 01/29/21 00:58

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 %
Benzene	2.50	0.548	2.47	2.13	76.9	63.3	20	10.0-149			14.8	37
Ethylbenzene	2.50	2.94	7.85	7.26	196	173	20	10.0-160	J5	J5	7.81	38
Toluene	2.50	6.60	14.3	13.7	308	284	20	10.0-156	J5	J5	4.29	38
Xylenes, Total	7.50	13.4	33.6	31.5	269	241	20	10.0-160	J5	J5	6.45	38
(S) Toluene-d8					*96.7*	*98.2*		*75.0-131*				
(S) 4-Bromofluorobenzene					*108*	*107*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*98.6*	*96.4*		*70.0-130*				

Method Blank (MB)

(MB) R3617556-3 01/29/21 08:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	0.00153	J	0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*109*			*75.0-131*
(S) 4-Bromofluorobenzene	*112*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*85.8*			*70.0-130*

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

(LCS) R3617556-1 01/29/21 07:08 • (LCSD) R3617556-2 01/29/21 07:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.137	0.135	110	108	70.0-123			1.47	20
Ethylbenzene	0.125	0.138	0.132	110	106	74.0-126			4.44	20
Toluene	0.125	0.137	0.134	110	107	75.0-121			2.21	20
Xylenes, Total	0.375	0.411	0.403	110	107	72.0-127			1.97	20
(S) Toluene-d8				*105*	*106*	*75.0-131*				
(S) 4-Bromofluorobenzene				*113*	*114*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*85.8*	*88.5*	*70.0-130*				

Method Blank (MB)

(MB) R3617449-1 01/28/21 21:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*65.0*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3617449-2 01/28/21 21:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	35.8	71.6	50.0-150	
(S) o-Terphenyl			*57.1*	*18.0-148*	

L1310369-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1310369-01 01/29/21 00:08 • (MS) R3617449-3 01/29/21 00:21 • (MSD) R3617449-4 01/29/21 00:34

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	7.04	50.5	64.6	71.4	96.6	1	50.0-150		J3	24.5	20
(S) o-Terphenyl					*52.1*	*54.1*		*18.0-148*				

Method Blank (MB)

(MB) R3617290-1 01/28/21 16:22

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	0.464	J	0.274	4.00
(S) o-Terphenyl	*70.9*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3617290-2 01/28/21 16:35

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			*87.5*	*18.0-148*	

L1309513-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1309513-05 01/28/21 17:56 • (MS) R3617290-3 01/28/21 18:10 • (MSD) R3617290-4 01/28/21 18:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	56.9	3.07	36.2	37.7	58.1	61.4	1	50.0-150			4.11	20
(S) o-Terphenyl					*83.7*	*88.0*		*18.0-148*				

Method Blank (MB)

(MB) R3617402-1 01/28/21 23:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	*63.4*			*18.0-148*

Laboratory Control Sample (LCS)

(LCS) R3617402-2 01/28/21 23:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	35.4	70.8	50.0-150	
(S) o-Terphenyl			*98.0*	*18.0-148*	

L1309838-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1309838-13 01/29/21 13:26 • (MS) R3617733-1 01/29/21 13:39 • (MSD) R3617733-2 01/29/21 13:52

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	53.9	5.78	46.4	46.3	75.4	74.6	1	50.0-150			0.237	20
(S) o-Terphenyl					*47.7*	*46.2*		*18.0-148*				

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

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.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN, 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

Pace Analytical National 1313 Point Mallard Parkway SE Suite B Decatur, AL, 35601

Alabama	40160
ANSI National Accreditation Board	L2239

Pace Analytical National 660 Bercut Dr. Ste. C Sacramento, CA, 95811

California	2961	Oregon	CA300002
Minnesota	006-999-465	Washington	C926
North Dakota	R-214		

Pace Analytical National 6000 South Eastern Avenue Ste 9A Las Vegas, NV, 89119

Nevada	NV009412021-1

Pace Analytical National 1606 E. Brazos Street Suite D Victoria, TX, 77901

Texas	T104704328-20-18

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

Analysis Request of Chain of Custody Record

F212

Page : 1 of 3

Tetra Tech, Inc.

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

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Wilder Manifold Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02383
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston

Comments: COPTETRA Acctnum

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		
-01	BH-1 (0-1')	1/19/2021	10:30		X				X			1	N	X		X												X						
02	BH-1 (2-3')	1/19/2021	10:37		X				X			1	N	X		X												X						
03	BH-1 (4-5')	1/19/2021	10:44		X				X			1	N	X		X												X						
04	BH-1 (6-7')	1/19/2021	10:51		X				X			1	N	X		X												X						
05	BH-1 (9-10')	1/19/2021	10:58		X				X			1	N	X		X												X						
06	BH-1 (15')	1/19/2021	11:05		X				X			1	N	X		X												X						
07	BH-1 (20')	1/19/2021	11:12		X				X			1	N	X		X												X						
08	BH-1 (25')	1/19/2021	11:19		X				X			1	N	X		X												X						
09	BH-1 (30')	1/19/2021	11:26		X				X			1	N	X		X												X						
10	BH-2 (0-1')	1/19/2021	11:33		X				X			1	N	X		X												X						

Relinquished by:	Date: 1/22/21	Time: 0900	Received by:	Date: 1/23/21	Time: 230
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ORIGINAL COPY

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

5.4+0=5.4

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-

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Wilder Manifold Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02383
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		
11	BH-2 (2-3')	1/19/2021	11:33		X				X			1	N	X		X												X					
12	BH-2 (4-5')	1/19/2021	11:40		X				X			1	N	X		X												X					
13	BH-2 (6-7')	1/19/2021	11:47		X				X			1	N	X		X												X					
14	BH-2 (9-10')	1/19/2021	11:54		X				X			1	N	X		X												X					
15	BH-2 (15')	1/19/2021	12:01		X				X			1	N	X		X												X					
16	BH-2 (20')	1/19/2021	12:35		X				X			1	N	X		X												X					
17	BH-2 (25')	1/19/2021	12:42		X				X			1	N	X		X												X					
18	BH-2 (30')	1/19/2021	12:49		X				X			1	N	X		X												X					
19	H-12 (0-1')	1/19/2021	12:56		X				X			1	N	X		X												X					
20	H-12 (2-3')	1/19/2021	13:03		X				X			1	N	X		X												X					

Relinquished by:	Date: 1/22/21	Time: 0900	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 1/23/21 Time: 2:31

Received by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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5.4 + 0 = 5.4 VM

Analysis Request of Chain of Custody Record

Page : 3 of 3

Tetra Tech, Inc.

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

Client Name:	Conoco Phillips	**Site Manager:**	Christian Llull
Project Name:	Wilder Manifold Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02383
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	**Sampler Signature:**	John Thurston
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	
21	H-12 (3-4')	1/19/2021	13:03		X				X			1	N	X		X												X				
22	H-12 (4-5')	1/19/2021	13:40		X				X			1	N	X		X												X				
23	H-13 (0-1')	1/19/2021	13:47		X				X			1	N	X		X												X				
24	H-13 (2-3')	1/19/2021	13:54		X				X			1	N	X		X												X				
25	H-13 (3-4')	1/19/2021	14:01		X				X			1	N	X		X												X				
26	H-13 (4-5')	1/19/2021	14:08		X				X			1	N	X		X												X				

Relinquished by: John Thurston	Date: 1/22/21	Time: 0900	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 1/23/21 Time: 230

LAB USE ONLY
Sample Temperature

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

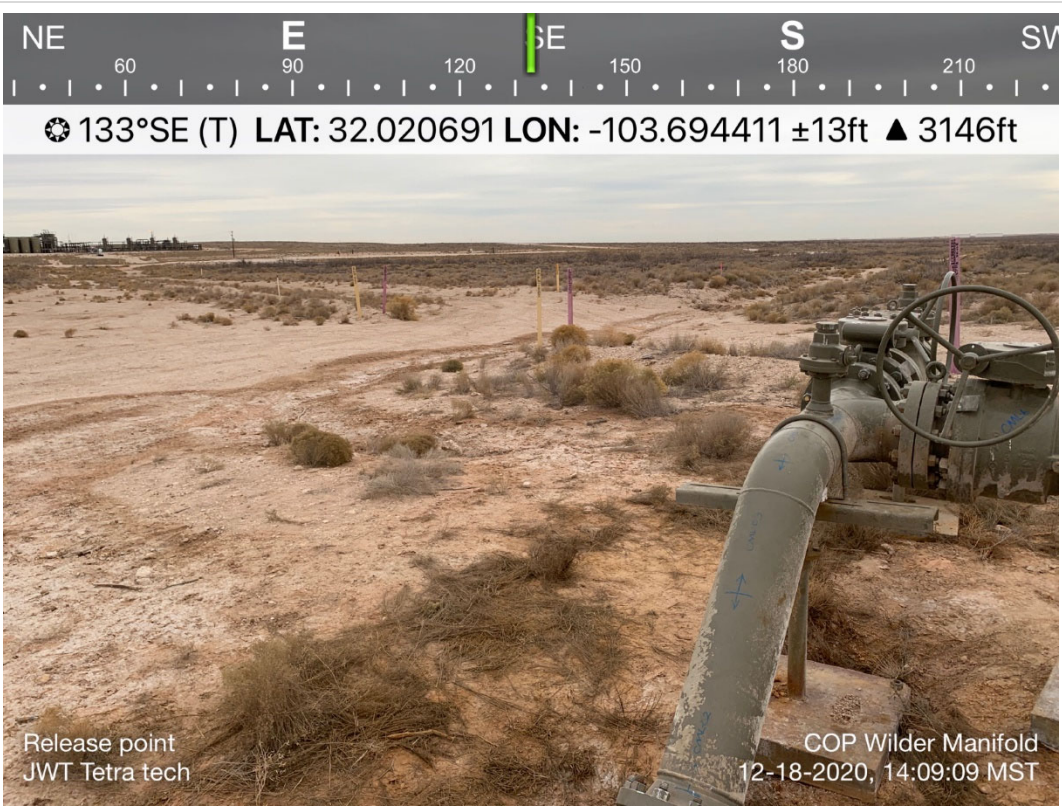
ORIGINAL COPY

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COPTETRA		1309838
Cooler Received/Opened On: 1 / 23 / 21	Temperature:	.4
Received By: Olivia Turner		
Signature:		

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?			

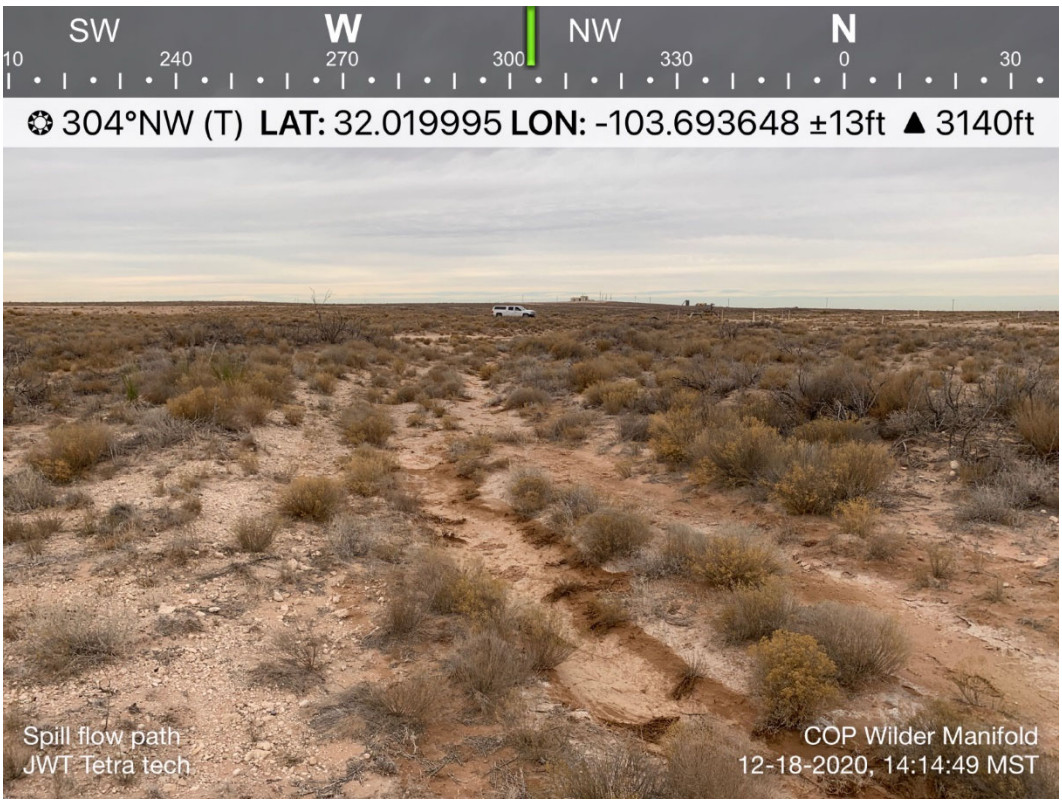
APPENDIX E
Photographic Documentation



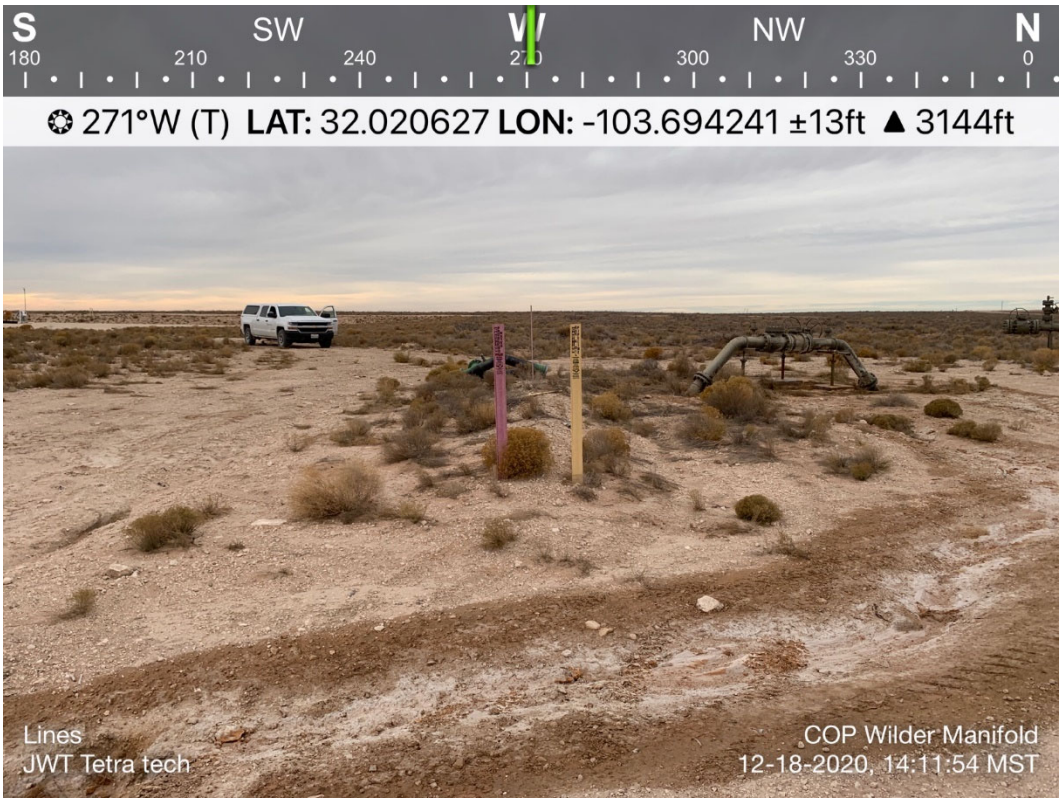
TETRA TECH, INC. PROJECT NO. 212C-MD-02383	DESCRIPTION	View southeast. Release point.	1
	SITE NAME	ConocoPhillips Wilder Pipeline Manifold Release	12/18/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02383	DESCRIPTION	View southwest. Northern portion of release extent.	2
	SITE NAME	ConocoPhillips Wilder Pipeline Manifold Release	12/18/2020

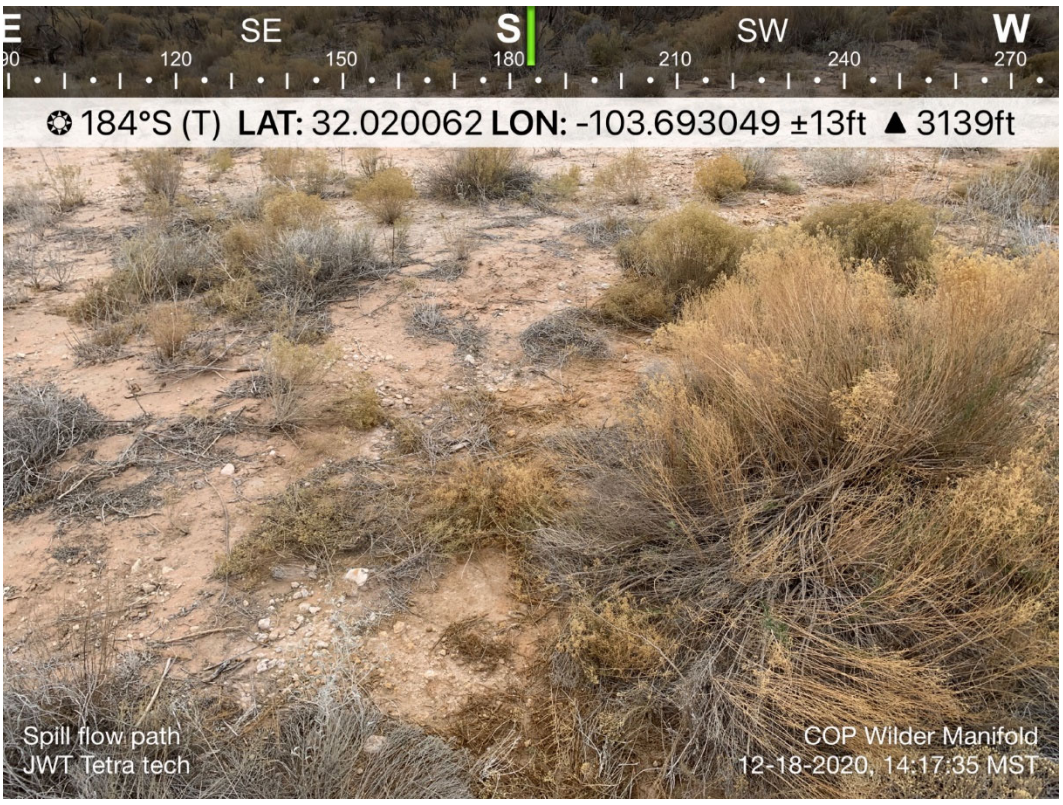
TETRA TECH, INC. PROJECT NO. 212C-MD-02383	DESCRIPTION	View southeast. Northern extent of release footprint.	3
	SITE NAME	ConocoPhillips Wilder Pipeline Manifold Release	12/18/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02383	DESCRIPTION	View northwest. Release flow path along rutted area.	4
	SITE NAME	ConocoPhillips Wilder Pipeline Manifold Release	12/18/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02383	DESCRIPTION	View west. Buried line marker near release footprint.	5
	SITE NAME	ConocoPhillips Wilder Pipeline Manifold Release	12/18/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02383	DESCRIPTION	View south. Visually impacted soil at the southern extent of release footprint.	6
	SITE NAME	ConocoPhillips Wilder Pipeline Manifold Release	12/18/2020

APPENDIX F
NMSLO Seed Mixture Details

United States Department of Agriculture

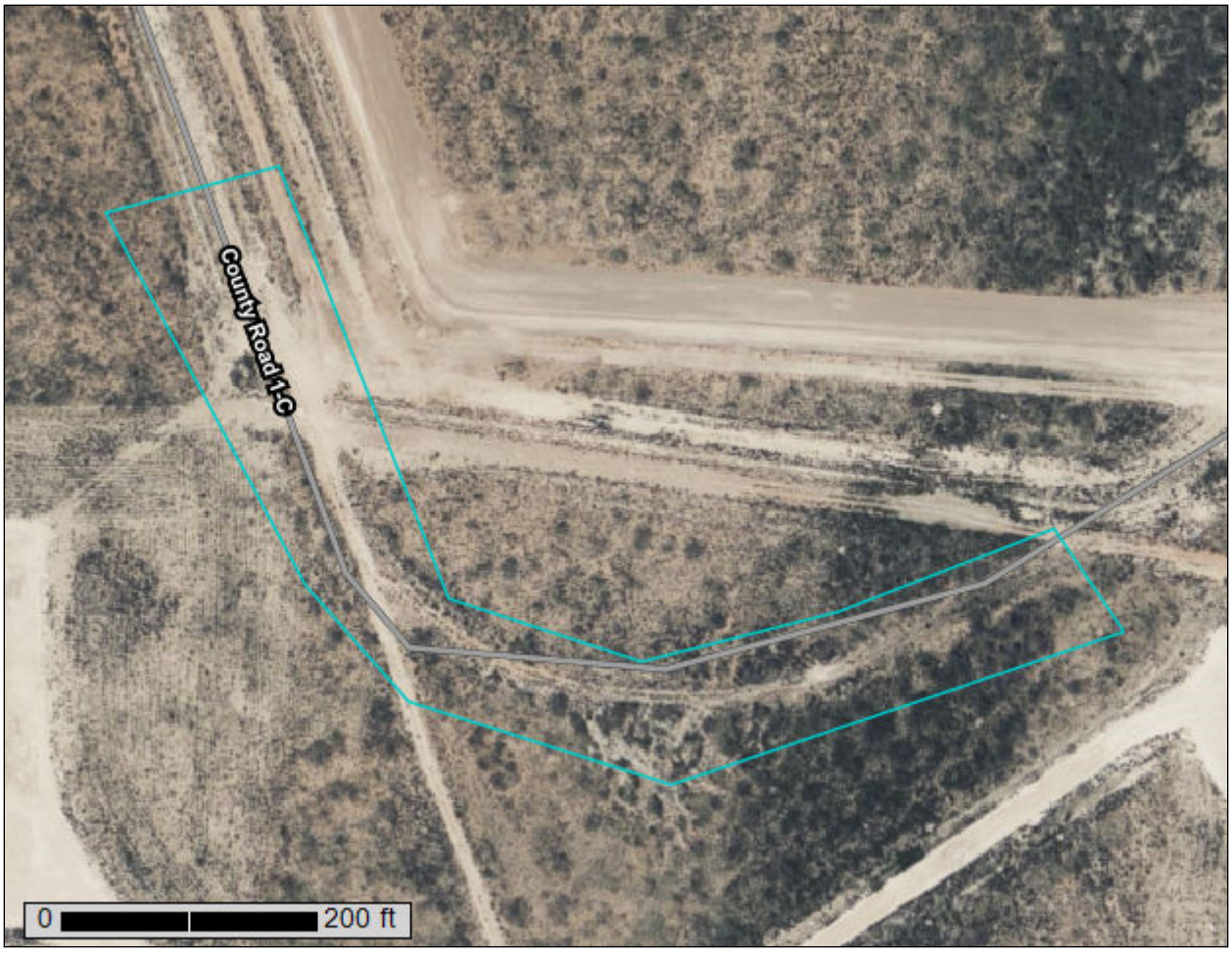
NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico

Wilder Pipeline Manifold Release

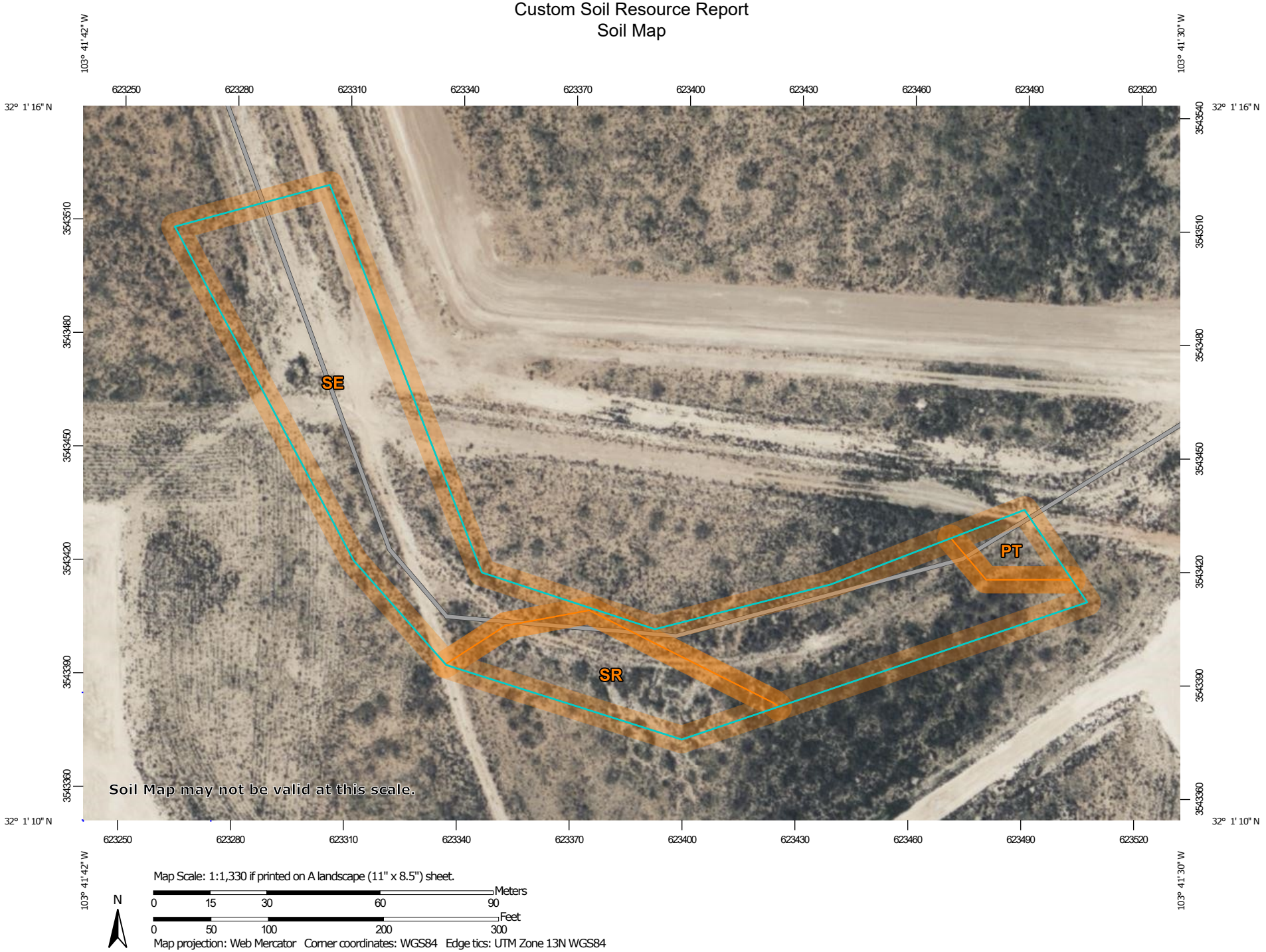


March 18, 2021

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 17, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 20, 2020—Mar 22, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PT	Pyote loamy fine sand	0.1	4.1%
SE	Simona fine sandy loam, 0 to 3 percent slopes	1.7	79.0%
SR	Simona-Upton association	0.4	16.9%
Totals for Area of Interest		**2.2**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the

development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

PT—Pyote loamy fine sand

Map Unit Setting

National map unit symbol: dmqp
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 200 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Pyote and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 25 inches: loamy fine sand
Bt - 25 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water capacity: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Maljamar

Percent of map unit: 8 percent
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

Palomas

Percent of map unit: 7 percent
Ecological site: R042XC003NM - Loamy Sand
Hydric soil rating: No

SE—Simona fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmr2
Elevation: 3,000 to 4,200 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 58 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sandy loam
Bk - 8 to 16 inches: gravelly fine sandy loam
Bkm - 16 to 26 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None

Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water capacity: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): 6s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042XC002NM - Shallow Sandy
Hydric soil rating: No

Minor Components

Kimbrough

Percent of map unit: 8 percent
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Lea

Percent of map unit: 7 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

SR—Simona-Upton association

Map Unit Setting

National map unit symbol: dmr3
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 58 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 50 percent
Upton and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: gravelly fine sandy loam
Bk - 8 to 16 inches: fine sandy loam
Bkm - 16 to 26 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water capacity: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042XC002NM - Shallow Sandy
Hydric soil rating: No

Description of Upton

Setting

Landform: Ridges
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Rise
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: gravelly loam
Bkm - 8 to 18 inches: cemented material
BCk - 18 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0
Available water capacity: Very low (about 0.9 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042XC025NM - Shallow
Hydric soil rating: No

Minor Components

Kimbrough

Percent of map unit: 6 percent
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Stegall

Percent of map unit: 5 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Slaughter

Percent of map unit: 4 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

1 REVEGETATION PLANS

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico

REVEGTATION PLANS	CODE	SOIL TEXTURES
Clay	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam

NMSLO Seed Mix Sandy Loam (SL)

SANDY LOAM (SL) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Galleta grass	Viva, VNS, So.	2.5	F
Little bluestem	Cimmaron, Pastura	2.5	F
Blue grama	Hachita, Lovington	2.0	D
Sideoats grama	Vaughn, El Reno	2.0	F
Sand dropseed	VNS, Southern	1.0	S
Forbs:			
Indian blanketflower	VNS, Southern	1.0	D
Parry penstemon	VNS, Southern	1.0	D
Blue flax	Appar	1.0	D
Desert globemallow	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	VNS, Southern	2.0	D
Common winterfat	VNS, Southern	1.0	F
Apache plume	VNS, Southern	0.75	F
	Total PLS/acre	17.75	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 36438

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	217817
	Action Number: 36438
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	The release is considered to be in the pasture and doesn't qualify for deferment. However a variance/consideration will be made for some contaminates left around high pressure lines due for safety concerns.	8/18/2021
chensley	A variance for a liner will be granted from samples points H-8 and up due to the pipeline/pipelines.	8/18/2021
chensley	This release has occurred in a High Karst area and will need to be remediated to the strictest closure criteria of <50' depth to groundwater from Table 1	8/18/2021
chensley	The OCD requires more sampling at sample points H-3, H-7, & H-8 to a depth of 5ft bgs.	8/18/2021
chensley	From H-7 please remediate to a depth of 10 ft bgs. and from H-8 going away from the point of release please remediate to table 1 criteria.	8/18/2021
chensley	The OCD is hesitant to close a release, where contaminants are left in place, due to close proximity to equipment. A hydrovac/shovel would need to be used to remove as much of the contaminants as safely possible.	8/18/2021
chensley	30 day extension is granted. Closure due 12/17/2021.	8/18/2021