

March 19, 2021

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

The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.

Sampling variance approved

Re: Release Characterization and Remediation Work Plan ConocoPhillips Warren Unit Water Transfer Line Release Unit Letter K, Section 28, Township 20 South, Range 38 East Lea County, New Mexico 1RP-1493 Incident ID nPAC0720030459

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a historical release that occurred in Public Land Survey System (PLSS) Unit Letter K, Section 28, Township 20 South, Range 38 East, upstream of the Warren Unit Water Transfer Line Header in Lea County, New Mexico (Site). The Site is located at coordinates 32.541719°, -103.154200°, 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 June 20, 2007. The release occurred as the result of an accidental discharge from a Victaulic nipple on polyline upstream of the transfer line header. The release consisted of 22 barrels (bbls) of produced water and reportedly affected an 1,800-square-foot (sf) area of pasture. During initial response, a vacuum truck recovered 15 bbls. The NMOCD received the C-141 report form for the release on July 17, 2007, and subsequently assigned the Site Remediation Permit (RP) number 1RP-1493 and Incident ID nPAC0720030459.

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 low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within 800 meters (approximately ½ mile) of the Site. The search radius was extended to 3,600 meters (approximately 2 miles) before three water wells were encountered. The average depth to groundwater for these wells is 65 feet (ft) below ground surface (bgs). The site characterization data is included in Appendix B.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action

432.682.4559

Tetra Tech

Release Characterization and Remediation Work Plan March 19, 2021

ConocoPhillips

levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

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

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH	2,500 mg/kg
BTEX	50 mg/kg

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

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

INITIAL SITE ASSESSMENT

On July 14, 2020, Tetra Tech visited the Site on behalf of ConocoPhillips to assess current site conditions and conduct soil sampling for characterization purposes. During the Site visit, it was observed that the impacted area appeared slightly larger than originally reported, encompassing an area of approximately 2,500 sf. In order to achieve horizontal and vertical delineation of the release extent, a total of four (4) borings (BH-2, BH-3, BH-5 and BH-6) were initially installed via hand auger. Additionally, surface soils in and around the release area were field screened for salinity parts per million (ppm) using an ExStik II EC 400 meter. One (1) boring (BH-2) was installed within the release extent to a depth of 5 ft bgs to achieve vertical delineation. The remaining three (3) borings (BH-3, BH-5, and BH-6) were installed along the perimeter of the release extent (to the west, east, and south, respectively) to depths of 5 ft bgs to achieve horizontal delineation. Boring logs are presented as Appendix C.

A total of twelve (12) samples were collected from the four (4) borings and submitted to Pace Analytical National Center for Testing & Innovation in Nashville, Tennessee (Pace) to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D. Sample locations are shown in Figure 3. Photographic documentation of the Site assessments is included as Appendix E.

ADDITIONAL SITE ASSESSMENT

To further characterize the area, and ensure complete vertical and horizontal delineation of the release to the north, west and east, Tetra Tech personnel returned to the Site on August 19, 2020. The task objective was to conduct additional soil sampling in a larger area of investigation to the north of the reported point of release. A total of eleven (11) borings (BH-1, BH-4, BH-7, and BH-8, and AH-1 through AH-7) were advanced via hand auger. Two (2) borings (BH-1 and BH-4) were installed within the release extent to a depth of 5 feet bgs to achieve vertical delineation to the north and south of the release extent respectively. Two (2) borings (BH-7 and BH-8) were installed within the release extent to the west and south of BH-2 to a depth of 1 ft bgs to confirm horizontal and vertical delineation in the vicinity of BH-2, where TPH exceeded the reclamation Site RRALs of 100 mg/kg during the July 2020 investigation (Table 1). Four borings (AH-1 through AH-4) were installed to the north, west and east of the release extent to a depth of 5 ft bgs The remaining three (3) borings (AH-5 through A-7) were installed to the further north, west and east of the release extent to a depth of 1 ft bgs to achieve vertical and horizontal delineation. Boring logs from the July and August 2020 assessment activities are included in Appendix C.

Release Characterization and Remediation Work Plan March 19, 2021

ConocoPhillips

A total of twenty-three (23) samples were collected from the eleven (11) borings and submitted to Pace Analytical National Center for Testing & Innovation in Nashville, Tennessee (Pace) to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D. Sample locations are shown in Figure 3. Photographic documentation of the Site assessments is included as Appendix E.

SUMMARY OF SAMPLING RESULTS

Results from the July 2020 soil sampling event are summarized in Table 1. Analytical results associated with sample location BH-2, located southwest of the source of the release, exceeded the off-pad Site reclamation RRAL for TPH (100 mg/kg) at the 0-1 ft bgs interval. There were no other analytical results which exceeded the TPH remediation RRAL during the initial assessment. The analytical results associated with the remainder of the samples analyzed were below the BTEX or chloride Site reclamation RRALs of 50 mg/kg and 600 mg/kg, respectively.

Results from the August 2020 additional assessment sampling event are summarized in Table 2. The analytical results associated with BH-7 and BH-8, the borings adjacent to BH-2, exceeded the reclamation RRAL for TPH (100 mg/kg) at the 0-1 ft bgs interval. The remainder of the analytical results were below Site RRALs. These locations were previously bound in the cardinal directions. Therefore, the release was fully delineated following the August 2020 additional sampling activities.

REMEDIATION WORK PLAN

Based on the analytical results, ConocoPhillips proposes to remove the impacted material as indicated in Tables 1 and 2 and as shown in Figure 4. Impacted soils will be excavated using heavy equipment (mini-excavators, backhoes and track hoes) to a maximum depth of 2 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the RRALs. If required, the area of the release extent that contains overhead powerlines will be hand-dug to a depth of 2 feet or the maximum extent practicable so that heavy equipment will not come within 20 ft of any overhead utilities.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Confirmation bottom and sidewall samples will be collected for verification of remedial activities, and analyzed for TPH, BTEX, and chlorides. Once results are received, NMOCD will be notified and the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 45 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips proposes the following alternative confirmation sampling plan to adhere with NMOCD requirements. The proposed confirmation sample locations are depicted in Figure 5. Two (2) confirmation floor samples and five (5) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses an area of approximately 590 sf.

These confirmation sidewall and floor samples will be representative of no more than approximately 500 sf of excavated area. Confirmation samples will be sent to Pace Laboratories for analysis of TPH (Modified EPA Method 8015), BTEX (EPA Method 8260B), and chloride (EPA 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 (S) 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-

Release Characterization and Remediation Work Plan March 19, 2021

ConocoPhillips

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 1 year of NMOCD plan approval. The Warren Unit Water Transfer Line Release (1RP-1493 / nPAC0720030459) is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD signed on May 7 and 9, 2019, respectively. COP is dedicated to addressing and closing all historical releases included in the ACO-R, and given the number of releases to be addressed, 1 year is anticipated to be a practicable timeline. 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.

Sincerely,

Tetra Tech, Inc.

Christian M. Llull, P.G.

Project Manager

Greg W. Pope, P.G. Program Manager

CC:

Mr. Marvin Soriwei, RMR – ConocoPhillips Mr. Charles Beauvais, GPBU - ConocoPhillips Release Characterization and Remediation Work Plan March 19, 2021

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

Figure 1 – Site Location Map

Figure 2 – Topographic Map

Figure 3 – Approximate Release Extent and Site Assessment Map

Figure 4 – Proposed Remediation Extent

Figure 5 – Alternative Confirmation Sampling Plan

Tables:

Table 1 – Summary of Initial Site Assessment Results

Table 2 – Summary of Additional Site Assessment Results

Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

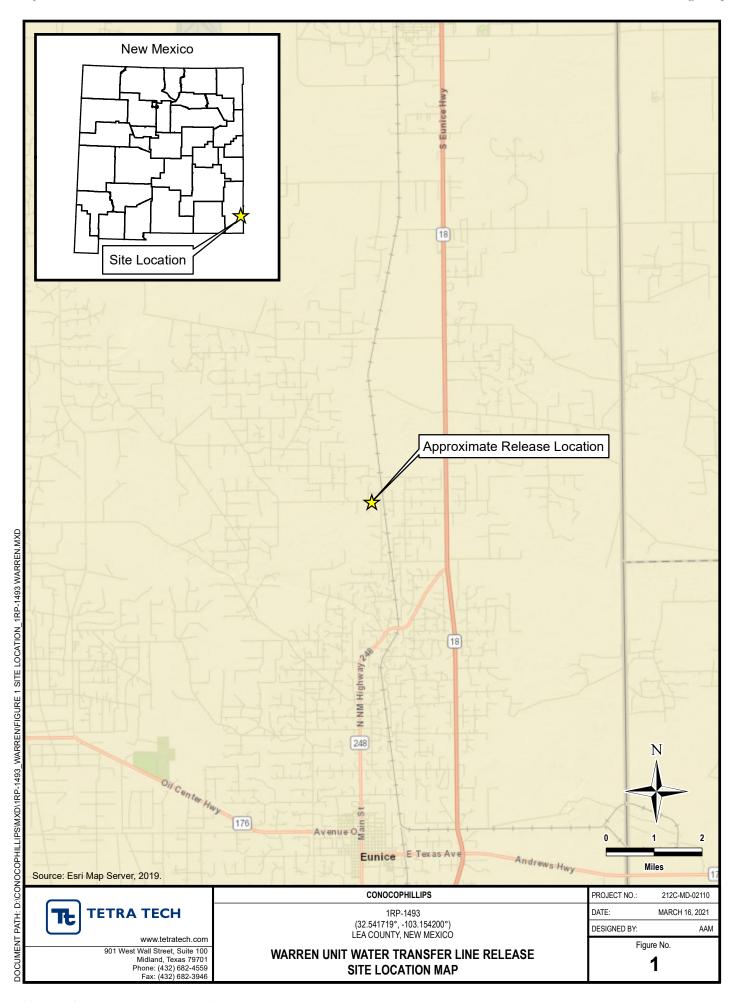
Appendix C - Soil Boring Logs

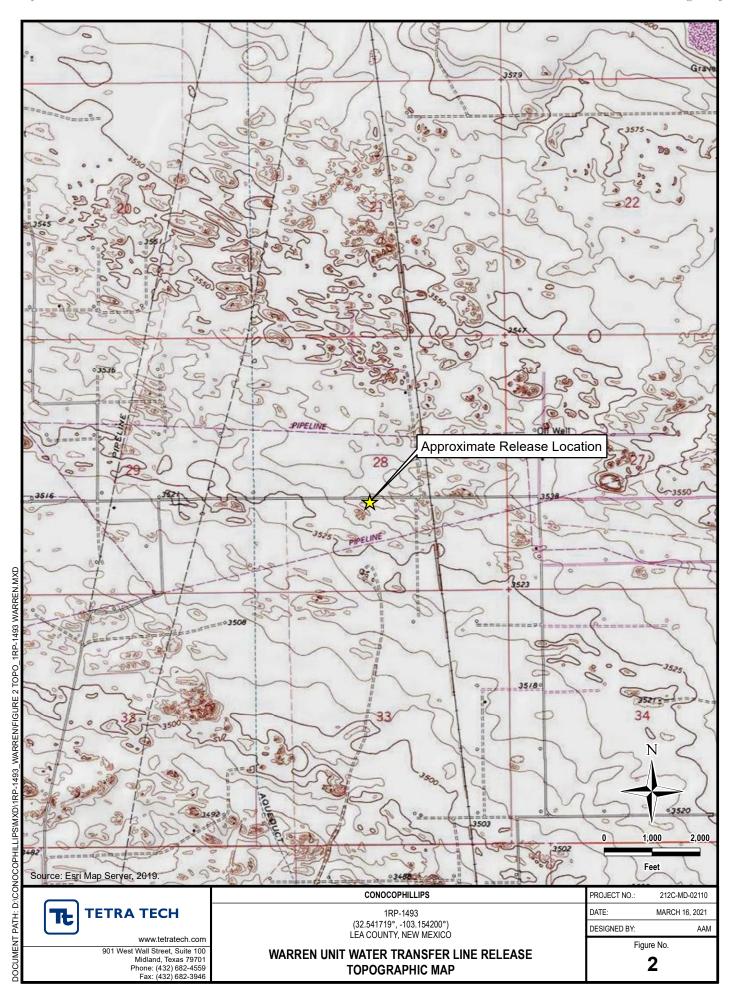
Appendix D - Laboratory Analytical Data

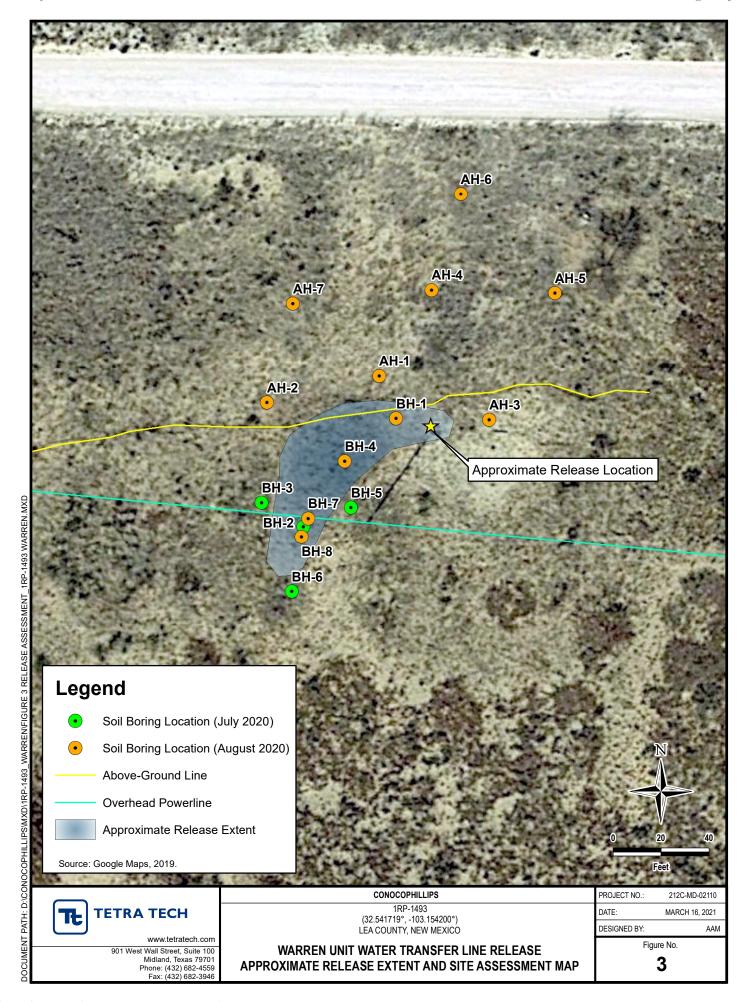
Appendix E – Photographic Documentation

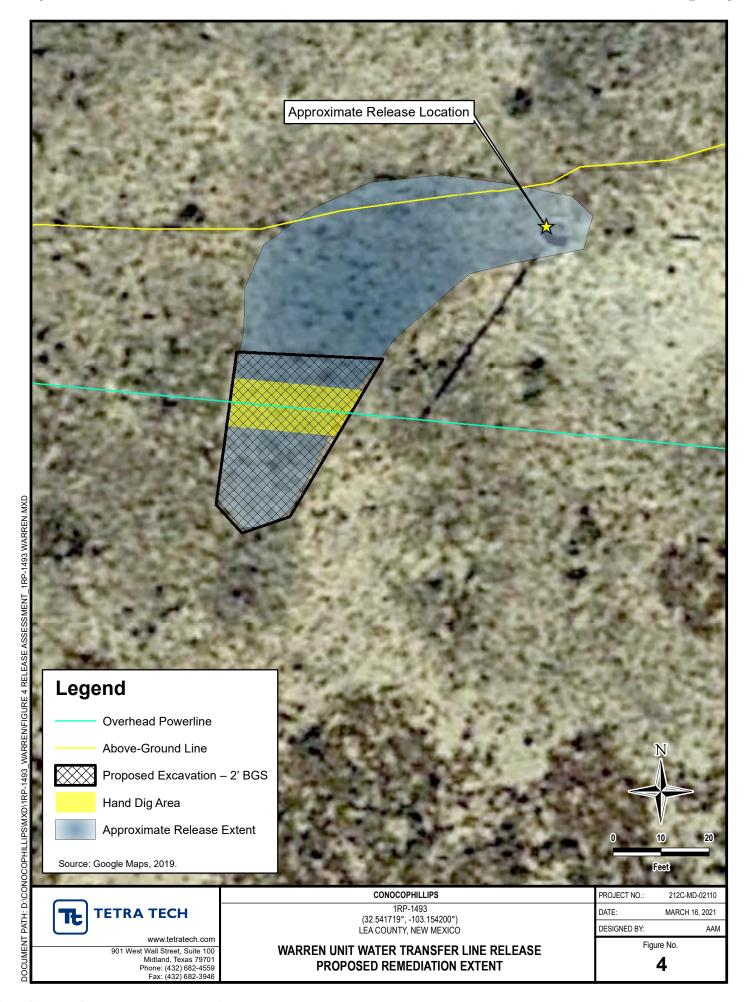
Appendix F – NMSLO Seed Mixture Details

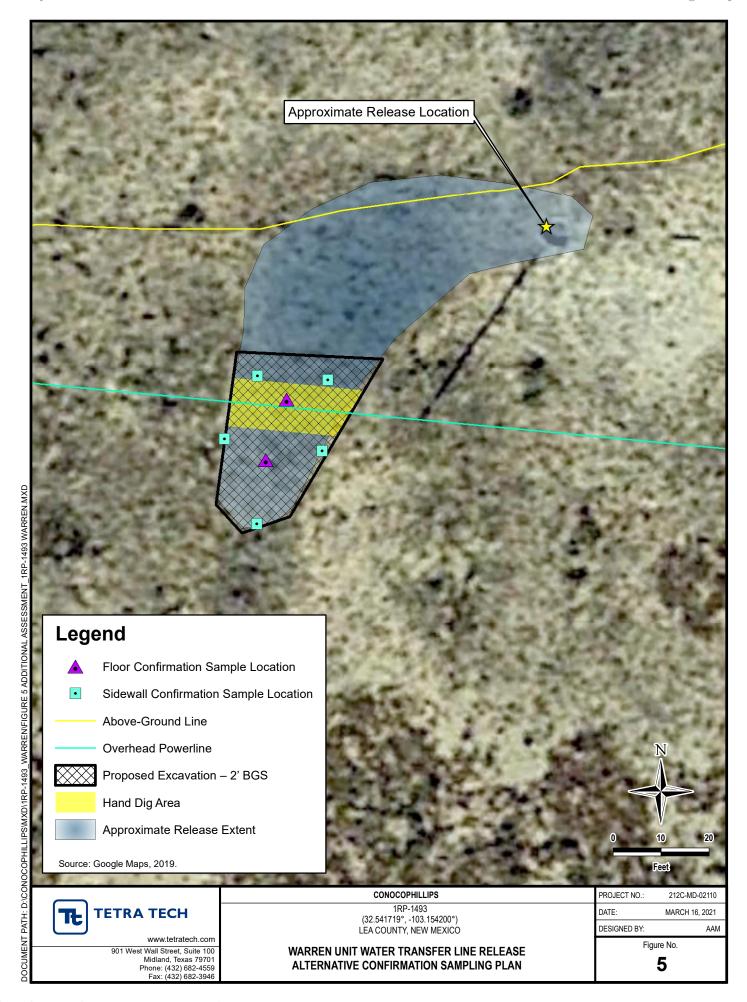
FIGURES











TABLES

TABLE 1 SUMMARY OF ANALYTICAL RESULTS INITIAL SOIL ASSESSMENT - 1RP-1493 CONOCOPHILLIPS

WARREN UNIT WATER TRANSFER LINE RELEASE LEA COUNTY, NM

			Field Screen	aing Basults							BTEX ²		TPH ³										
Sample ID	Sample Date	Sample Depth Interval	rieiu screei	ning Results	Chloride ¹		Benzene		Toluene	Toluono			Total Xylene	a c	Total BTEX	GRO⁴		DRO		ORO		Total TPH	
Sample 1D		c.ra.	Chloride	PID			benzene		Toluctic		Ethylbenzene		Total Aylenes		TOTAL BIEX	C ₃ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₄₀		(GRO+DRO+ORO)	
		ft. bgs	рр	om	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	
		0-1	78	0.0	12.9	J	< 0.00102		< 0.00510		< 0.00255		< 0.00663		-	0.0408	B J	420		891		1311	
BH-2	7/14/2020	2-3	109	0.0	< 24.8		< 0.00148		< 0.00741		< 0.00371		< 0.00964		-	0.0494	B J	< 4.96		< 4.96		0.0494	
		4-5	201	0.0	133		< 0.00119		< 0.00595		< 0.00298		< 0.00774		-	0.0358	B J	< 4.33		0.642	J	0.678	
	7/14/2020	0-1	79	0.0	17.5	J	< 0.00138		< 0.00691		< 0.00345		< 0.00898		-	0.0455	ВЈ	< 4.76		0.929	J	0.975	
BH-3		2-3	101	0.0	49.3		< 0.00101		< 0.00507		< 0.00253		< 0.00659		-	< 0.101		1.98	J	8.34		10.3	
		4-5	39	0.0	14.3	J	< 0.00137		< 0.00683		< 0.00341		< 0.00887		-	< 0.119		2.08	J	5.94		8.02	
		0-1	91	0.0	19.2	J	< 0.00138		< 0.00691		< 0.00346		< 0.00899		-	< 0.119		< 4.76		2.56	J	2.56	
BH-5	7/14/2020	2-3	111	0.0	18.2	J	< 0.00130		< 0.00652		< 0.00326		< 0.00848		-	< 0.116		< 4.61		4.11	J	4.11	
		4-5	57	0.0	13.9	J	< 0.00125		< 0.00624		< 0.00312		< 0.00811		-	< 0.112		< 4.49		5.67		5.67	
		0-1	100	0.0	24.4	J	< 0.00146		< 0.00730		< 0.00365		< 0.00949		-	< 0.123		< 4.92		< 4.92		-	
BH-6	7/14/2020	2-3	79	0.0	< 20.2		< 0.00101		< 0.00504		< 0.00252		< 0.00655		-	< 0.101		1.78	J	5.64		7.42	
		4-5	215	0.0	120		< 0.00125		< 0.00625		< 0.00313		< 0.00813		-	< 0.113		< 4.50		0.428	J	0.428	

NOTES:

Shaded rows indicate intervals proposed for excavation and remediation.

Feet **Bold and italicized values indicate exceedance of proposed RRALs**

bgs Below ground surface 1 EPA Method 300.0

ppm Parts per million 2 EPA Method 8260B

mg/kg Milligrams per kilogram 3 EPA Method 8015

TPH Total Petroleum Hydrocarbons 4 EPA Method 8015D/GRO

GRO Gasoline range organics

DRO Diesel range organics B The same analyte is found in the associated blank.

ORO Oil range organics J The identification of the analyte is acceptable; the reported value is an estimate.

QUALIFIERS:

TABLE 2 SUMMARY OF ANALYTICAL RESULTS ADDITIONAL SOIL ASSESSMENT - 1RP-1493 CONOCOPHILLIPS

WARREN UNIT WATER TRANSFER LINE RELEASE LEA COUNTY, NM

			F: 116								BTEX ²						TPH ³			
Canada ID		Sample Depth Interval	Field Screening Results		Chloride ¹		D		Talaana		Falsoille access	_	Tatal Walance	Takal DTEV	GRO⁴	DRO		ORO		Total TPH
Sample ID	Sample Date	interval	Chloride	PID			Benzene		Toluene		Ethylbenzen	е	Total Xylenes	Total BTEX	C ₃ - C ₁₀	C ₁₀ - C ₂₈		C ₂₈ - C ₄₀		(GRO+DRO+ORO)
		ft. bgs	рр	m	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
		0-1	25.1	0.0	< 20.0		< 0.00100		< 0.00502		< 0.00251		< 0.00653	-	< 0.100	2.56	J	6.35		8.91
AH-1	8/19/2020	2-3	0.0	0.0	< 20.3		< 0.00103		< 0.00515		< 0.00257		< 0.00669	-	< 0.101	< 4.06		0.4.34	J	0.434
		4-5	20.4	0.0	< 20.4		< 0.00104		< 0.00520		< 0.00260		< 0.00676	-	< 0.102	< 4.08		0.360	J	0.360
		0-1	17	0.0	< 20.3		< 0.00103		< 0.00516		< 0.00258		< 0.00670	-	< 0.102	4.00	J	2.97	J	6.97
AH-2	8/19/2020	2-3	21	0.0	< 22.2		< 0.00122		< 0.00612		< 0.00306		< 0.00796	-	< 0.111	< 4.45		4.20	J	4.20
		4-5	19	0.0	< 20.1		< 0.00101	J3	< 0.00504	J3	< 0.00252	J3	< 0.00655	-	< 0.100	< 4.01		3.74	J	3.74
		0-1	20	0.0	< 20.2		< 0.00102		< 0.00508		< 0.00254		< 0.00660	-	< 0.101	< 4.03		5.02		5.02
AH-3	8/19/2020	2-3	21	0.0	< 24.6		< 0.00146		< 0.00730		< 0.00365		< 0.00949	-	< 0.123	< 4.92		0.391	J	0.391
		4-5	17	0.0	< 20.8		< 0.00108		< 0.00539		< 0.00269		< 0.00700	-	< 0.104	< 4.15		0.729	J	0.729
		0-1	18	0.0	< 20.2		< 0.00102		< 0.00509		< 0.00255		< 0.00662	-	< 0.101	11.2		24.3		35.5
AH-4	8/19/2020	2-3	25	0.0	< 20.2		< 0.00102		< 0.00511		< 0.00256		< 0.00665	-	< 0.101	3.25	J	6.39		9.64
		4-5	19	0.0	< 20.9		< 0.00109		< 0.00546		< 0.00273		< 0.00710	-	< 0.105	2.05	J	4.77		6.82
AH-5	8/19/2020	0-1	-	-	< 21.6		< 0.00116		< 0.00579		< 0.00290		< 0.00753	-	< 0.108	4.71		4.19	J	8.90
AH-6	8/19/2020	0-1	-	-	< 21.8		< 0.00118		< 0.00588		< 0.00294		< 0.00764	-	0.0348 J	3.56	J	3.70	J	7.29
AH-7	8/19/2020	0-1	-	-	< 21.0		< 0.00110		< 0.00550		< 0.00275		< 0.00715	-	0.0273 J	6.27		5.75		12.0
		0-1	24	0.0	< 20.1		< 0.00101		< 0.00504		< 0.00252		< 0.00655	-	< 0.100	2.83	J	21.8		24.6
BH-1	8/19/2020	2-3	0.0	0.0	14.4	J	< 0.00102		< 0.00508		< 0.00254		< 0.00661	-	< 0.101	< 4.03		3.56	J	3.56
		4-5	21	0.0	< 20.4		< 0.00104		< 0.00519		< 0.00260		< 0.00675	-	< 0.102	< 4.08		0.340	J	0.340
		0-1	0.0	0.0	< 20.1		< 0.00101		< 0.00507		0.000836	J	< 0.00659	0.000836	< 0.101	< 4.03		5.06		5.06
BH-4	8/19/2020	2-3	49.5	0.0	< 20.1		< 0.00101		0.00154	J	< 0.00252		< 0.00654	0.00154	< 0.100	4.17		10.8		15.0
		4-5	0.0	0.0	44.7		< 0.00102		< 0.00508		< 0.00254		0.00109 J	0.00109	< 0.101	3.10	J	9.51		12.6
BH-7	8/19/2020	0-1	-	-	< 24.1		< 0.00141		< 0.00704		< 0.00352		< 0.00915	-	0.0308 J	75.9		212		288
BH-8	8/19/2020	0-1	-	-	< 20.7		< 0.00107		< 0.00535		< 0.00267		< 0.00695	-	0.0312 J	294		844		1138

NOTES:

Shaded rows indicate intervals proposed for excavation and remediation.

Bold and italicized values indicate exceedance of proposed RRALs

ft. Feet
bgs Below ground surface

EPA Method 300.0
EPA Method 8260B
EPA Method 8015

TPH Total Petroleum Hydrocarbons

mg/kg Milligrams per kilogram

ppm Parts per million

GRO Gasoline range organics QUALIFIERS:

DRO Diesel range organics B The same analyte is found in the associated blank.

ORO Oil range organics J The identification of the analyte is acceptable; the reported value is an estimate.

4 EPA Method 8015D/GRO

APPENDIX A C-141 Forms

Form C-141

Revised October 10, 2003

1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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

Submit 2 Copies to appropriate

District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action OPERATOR X Initial Report Final Report Contact Jesse A. Sosa Name of Company ConocoPhillips Company Address 3300 N. "A" St., Bldg. 6 #247 Midland, TX 79705-5 Telephone No. (505)391-3126 Facility Name Warren Unit Water Transfer Line Facility Type Produced water trunk line Lease No. LC031695B Surface Owner Bob McCasland Mineral Owner BLM LOCATION OF RELEASE Feet from the North/South Line East/West Line Unit Letter Section **Township** Range Feet from the County K 28 **20S** 38E Lea **Longitude** W 103 09.256 Latitude N 32 32.512 WTK = 50 NATURE OF RELEASE Volume of Release 22 Volume Recovered 15 Type of Release Produced water Source of Release Victaulic nipple in trunk line Date and Hour of Occurrence 6/20/07 Datement Hour of Discovery 6/20/07 5p Was Immediate Notice Given? If YES, To Whom? Yes No X Not Required Pat Richards (voicemail) By Whom? Jesse Sosa Date and Hour 6/22/2007 2:35 pm 11819202125 Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes X No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* There was an accidental discharge of 22 BPW from a victaulic nipple on transfer line header. The nipple was on a 3" header. The spill was not contained in a dike and 15 BPW fluid was recovered. polyline upstream of (3) NEED CHCORDES OF BOTE Describe Area Affected and Cleanup Action Taken. Affected area was 15' X.120' all on pasture land, MSO called a vacuum truck out and 15 bbls was recovered. No cows were presence, Area will be remediated in accordance with NMOCD guidelines. Regulatory Agencies were notified. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, of local laws and/dr regulations. OIL CONSERVATION DIVISION Signature: ENVI CO ENCO Approved by District Supervisor: Printed Name: Jesse A. Sosa Title: HSER Lead 9.18.00 Approval Date: 7.18.07 **Expiration Date:** E-mail Address: Jesse, A. Sosa@conocophillips.com Conditions of Approval: Attached | SUBMITFINAL C-141 BY Date: 06/29/2007 Phone: (505)391-3126 * Attach Additional Sheets If Necessary CHITACK DECEMZENTATION OF CLIANUP

2 PROVIDE SPILL CHLORADOS

Received by OCD: 3/19/2021 12:57:47 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

	Page 17 of 145
Incident ID	
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?	(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 vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
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 well 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	ls.

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.

Received by OCD: 3/19/2021 12:57:47 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 18 of 1	45
Incident ID		
District RP		
Facility ID		

Application ID

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a the addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	occupatifications and perform corrective actions for releases which may endanger occupations not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD OI.	
OCD Only	D :
Received by:	Date:

Page 19 of 145

Incident ID		
District RP		
Facility ID		
Application ID	•	

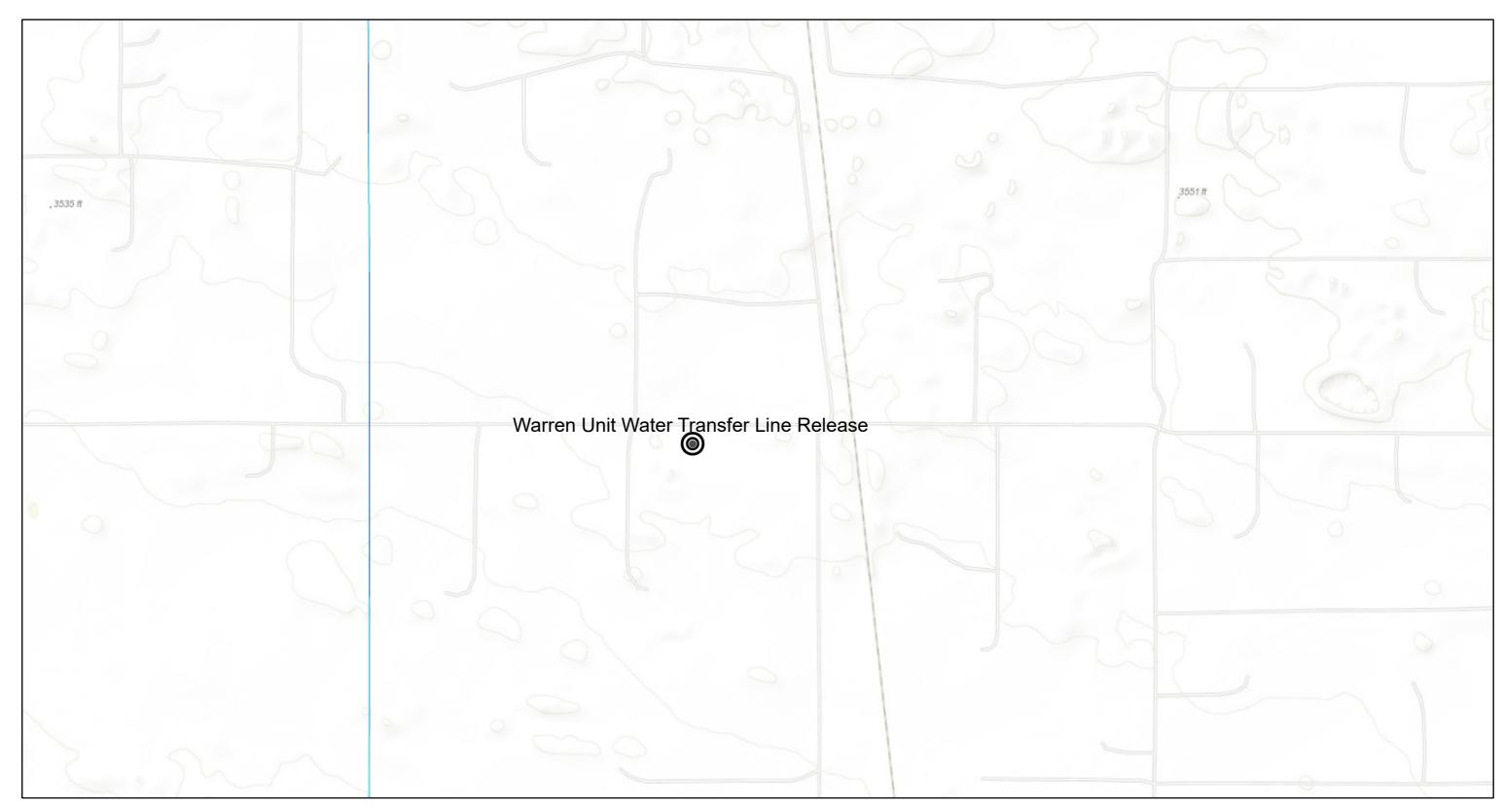
Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e 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 con	firmed as part of any request for deferral of remediation.											
	roduction equipment where remediation could cause a major facility											
Extents of contamination must be fully delineated.												
Contamination does not cause an imminent risk to human health	n, 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:												
Signature:	Date:											
email:	Telephone:											
OCD Only												
Received by:	Date:											
Approved	Approval											
Signature: Ashley Maxwell	Date:											

The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.

APPENDIX B Site Characterization Data

Warren Unit WTR Transfer Line Release



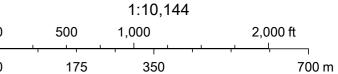
7/13/2020, 10:53:42 AM



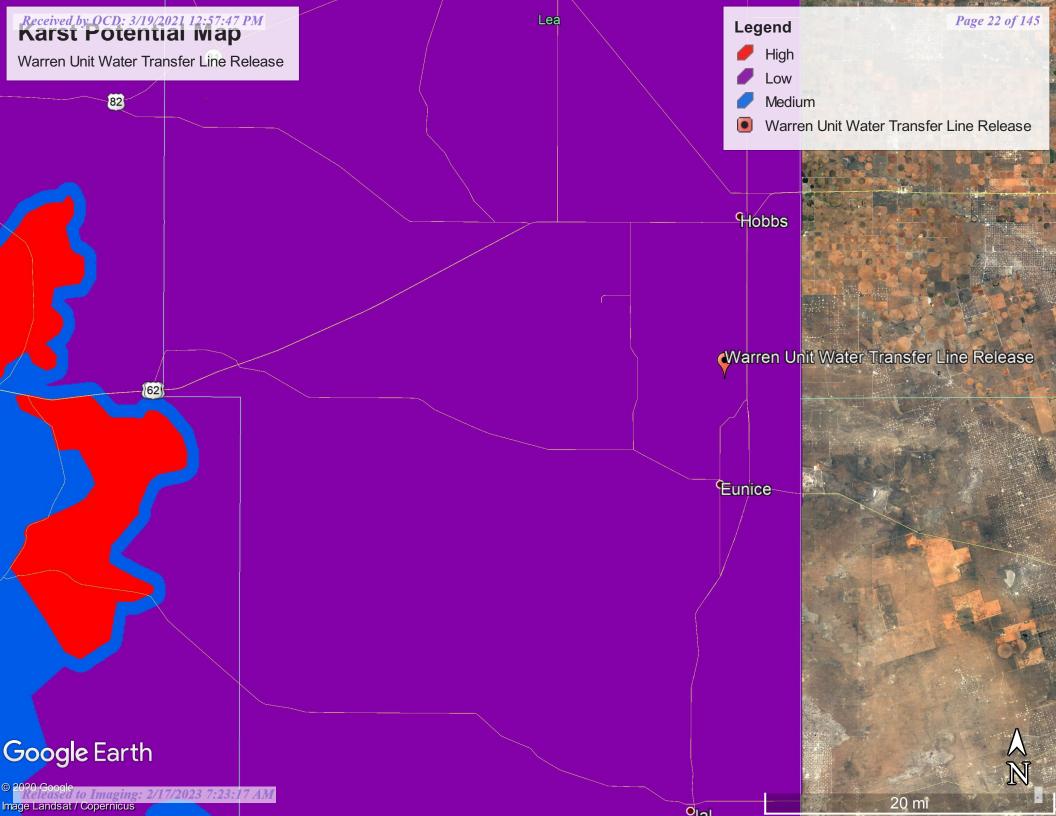
OSE Water-bodies

PLJV Probable Playas

OSE Streams



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community





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

(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

		Sub-		Q	Q	Q								Water	ŗ
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	Χ	Υ	Distance De _l	othWellDep	thWaterColum	n
L 09918		L	LE		4	2	21	20S	38E	673954	3604063* 🌑	2170	135		
L 13546 POD1		L	LE	4	4	3	34	20S	38E	675011	3600037	2575	88		
L 07980		L	LE		4	3	26	20S	38E	676412	3601687*	3099	130	65 6	35

Average Depth to Water:

65 feet

Minimum Depth:

65 feet

Maximum Depth:

65 feet

Record Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 673326.41 Northing (Y): 3601985.24 **Radius: 3600**

*UTM location was derived from PLSS - see Help

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

10/1/20 4:28 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX C Soil Boring Logs

<u>ceive</u>	<u>d b</u> у	, <u>0</u>	CD: 3/	<u> 19/2021</u>	12:	57:4	17 P	<u> </u>					Page 25 of
212	C-M	D-0	2200	T	ŧ	ETR	A TEC	СН				LOG OF BORING AH-1	Page 1 of 1
Proje	ect N	lam	e: Wa	arren Un	it W	ater	Tran	sfer	Line	Rele	ease		
Bore	Borehole Location: GPS: 32.541778°, -103.154269°							1269°				Surface Elevation: 3530 ft	
Bore	Borehole Number: AH-1 Boreho									E	Boreh Diame	ole ster (in.): 2 Date Started: 8/19/2020 Date Finisher	d: 8/19/2020
			D. (mo	(mc	२५ (%)	NT (%))EX			WATER LEVEL OBSERVATIONS	DRY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	XX CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Н СТООПР СТИПТ	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION (#)	REMARKS
	P	m	25.1	0.0								-SM- SILTY SAND: Red, loose, dry, with no odor, with no staining.	AH-1 (0'-1')
- -	ł	<u> </u>	0.0	0.0								-SM- SILTY SAND: Reddish white, loose, dry, with no odor, with no staining. -SM- SILTY SAND: Reddish white, loose, wet,	AH-1 (2'-3')
5	1	m	20.4	0.0								with no odor, with no staining.	AH-1 (4'-5')
								Door	ation.				
Sam Type	pler s:		Split Spool Shelb Bulk Samp Grab Samp	y			r C)pera ypes	Mud Rota	ary itinuou ht Aug sh	as E	Hand Auger Air Rotary Direct Push Core Barrel Notes: Analytical samples are shown in the "Remarks" of Surface elevation is an estimated value.	column.

<u>ceive</u>	<i>d b</i> y	0	CD: 3/	19/2021	12:	57:4	17 P	M_{\perp}					Page 26 of
2120	C-M	D-0	2200	T	ΕŢ	ETR	A TEC	СН				LOG OF BORING AH-2	Page 1 of 1
Proje	ct N	lam	e: Wa	arren Un	it W	ater	Tran	sfer	Line	Rele	ease		
Borel	hole	Loc	cation:	GPS: 32.	54174	7°, -1	03.154	1419°				Surface Elevation: 3531 ft	
Borel	hole	Nu	mber:	AH-2						E	Boreh Diame	ole Date Started: 8/19/2020 Date Finished	I: 8/19/2020
			D Jm)	(шс	RY (%)	ENT (%)			DEX		Jame	WATER LEVEL OBSERVATIONS	RY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	X SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION (1) H GH GH GH GH GH GH GH GH GH	REMARKS
	1	m	17	0.0								-SM- SILTY SAND: Red, loose, dry, with no odor, with no staining.	AH-2 (0'-1')
_		E	21	0.0								-SM- SILTY SAND: Reddish white, loose, dry, with no odor, with no staining. -SM- SILTY SAND: White, loose, dry, with no	AH-2 (2'-3')
5	1	m	19	0.0								odor with no staining	AH-2 (4'-5')
Samp Type:	pler s:		Split Spoor Shelb Bulk Samp Grab Samp	y			r]	pera ypes	Mud Rota	ary itinuou ht Aug sh	is ler	Hand Auger Air Rotary Direct Push Core Barrel Notes: Analytical samples are shown in the "Remarks" of Surface elevation is an estimated value.	olumn.

ceived	by O	CD: 3/	<u>19/2021</u>	12:	57:4	17 P	<u> </u>										Page 27 of
212C-	·MD-(02200	T	ĘŢ	ETR	A TEC	СН					LC	OG OF BORIN	IG AH-3			Page 1 of 1
Project	Nan	ne: Wa	rren Un	it W	ater	Tran	sfer	Line	Rele	ase							•
Boreho	le Lo	cation:	GPS: 32.	54172	25°, -1	03.154	1119°				Surface Eleva	ition:	3531 ft				
Boreho	le Nı	ımber:	AH-3						E	oreh Diame	ole eter (in.): 2		Date Started: 8/1	19/2020	Date F	inishe	d: 8/19/2020
		hdu)	(md	RY (%)	ENT (%)	(J		DEX			While Drilling		ATER LEVEL O DRY ft Upon (Ā D	DRY_ft
DEPTH (ft)	SAMPLE	XX CHLORIDE FIELD SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MA	ATEF	RIAL DESCRIP	TION		DЕРТН (ft)	REMARKS
	m	20	0.0								-SM- SILT odor, with	TY SA	ND: White, loose	e, dry, with no)		AH-3 (0'-1')
													AND: Red, loose,	dry with no	ndor	1.5	
	m m	21	0.0								with no sta	aining	l.	ary, war no c	odor,		AH-3 (2'-3')
-	last last	17	0.0													-	AH-3 (4'-5')
5		17	0.0								•	Botto	om of borehole at	5.0 feet.		5	An-3 (4-3)
Sample	or i	√ Split					Oners	ation									
Sample Types:	[Split Spoon Shelby Bulk Sampl Grab Sampl	v V			r T	pera ypes	Muc Rota	ary tinuous ht Auge sh	ss er	Air Rotary	Notes Anal Surfa	s: ytical samples ar ace elevation is a	e shown in th	e "Rema /alue.	arks" (column.

<u>ceived by OCD: 3</u>	<u>/19/2021 12:57:47</u>	7 <i>PM</i>		Page 28 of
212C-MD-02200	TE TETRA	TECH	LOG OF BORING AH-4	Page 1 of 1
Project Name: W	ı 'arren Unit Water T	ransfer Line Release	1	
Borehole Location:	GPS: 32.541875°, -103	3.154197°	Surface Elevation: 3531 ft	
Borehole Number:	AH-4	Borel Diam	nole 2 Date Started: 8/19/2020 Date Finished:	8/19/2020
Q. Q.	om) RY (%) ENT (%)	Mark Market	WATER LEVEL OBSERVATIONS While Drilling	RY_ft
DEPTH (ft) OPERATION TYPE SAMPLE CHLORIDE FIELD SCREENING (ppm)		DRY DENSITY (pcf) LIQUID LIMIT DRASTICITY INDEX MINUS NO. 200 (%) GRAPHIC LOG	MATERIAL DESCRIPTION (i) HE DESCRIPTION	REMARKS
18	0.0		-SM- SILTY SAND: Red, loose, dry, with no odor, with no staining.	AH-4 (0'-1')
25	0.0		-SM- SILTY SAND: Reddish white, loose, dry,	AH-4 (2'-3')
5 19	0.0		odor with no staining	AH-4 (4'-5')
<u> </u>		[[Bottom of borehole at 5.0 feet.	
Sampler Types: Spir Spor Spor Spor Spor Spor Spor Spor Spo	by Vane Shear ple California	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" consumption of the properties of t	olumn.

<u>ceive</u>	<i>d b</i> у	0	CD: 3/1	9/2021	12:	<i>57:4</i>	17 P	<u> </u>								Page 29 of
212	C-M	ID-0	2200	T	ĿŢ	ETRA	ATEC	СН					LOG OF BORING AH-	5		Page 1 of 1
Proje	ect N	lam	e: War	ren Un	it W	ater	Tran	sfer	Line	Rele	ase					•
Bore	hole	Lo	cation:	GPS: 32.5	54186	9°, -10	03.154	1031°				Surface Elevation	on: 3532 ft			
Bore	hole	·Nu	mber: /	4H-5						B	oreho iame	ole ter (in.): 2	Date Started: 8/19/2020	Date	Finished	d: 8/19/2020
			OT)	(md	RY (%)	ENT (%)			DEX			While Drilling Remarks:	WATER LEVEL OBSERVA Variable DRY ft Upon Completion		Ā D	RY_ft
DЕРТН (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	T LIQUID LIMIT	D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG		FERIAL DESCRIPTION		DEPTH (ft)	REMARKS
	1	m	-	-								-SM- SILTY with no stair	SAND: Red, loose, dry, with ing.	no odor,	1	AH-5 (0'-1')
													ottom of borehole at 1.0 feet.			
Sam	pler		✓ Split					р̂рега	ation			Hand August N				
Sam Type	pier es:		Split Spoon Shelby Bulk Sample Grab Sample	V X	cetate 'ane S Californ est Pi	nia	r T	pera ypes	Muc Rota	tinuous nt Auge sh) Air Rotary	otes: nalytical samples are shown i urface elevation is an estimat	in the "Remed value.	arks" o	column.

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212	C-M	D-02	2200	T	ΕŢ	ETR <i>A</i>	TEC	Н					LOG OF BORING AH-6		Page 1 of 1
Proje	ect N	lame	: Wai	ren Un	it W	ater ·	Tran	sfer	Line	Rele	ase				•
Bore	hole	Loc	ation:	GPS: 32.	54198	3°, -10	03.154	·156°				Surface Elevation	n: 3532 ft		
Bore	hole	Nun	nber:	AH-6						В	Soreho	ole ter (in.): 2	Date Started: 8/19/2020 Date	Finishe	d: 8/19/2020
					(%)	(%) L			×		lame	While Drilling	WATER LEVEL OBSERVATIONS <u>▼ DRY</u> ft Upon Completion of Drilling	Ā C	DRY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	TIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	Remarks:	ERIAL DESCRIPTION	DEPTH (ft)	REMARKS
	F	m	-	-								-SM- SILTY with no stain	SAND: Red, loose, dry, with no odor,	1	AH-6 (0'-1')
Sam Type	pler es:		Split Spoon Shelby Bulk Sample Grab Sample		cetate /ane S Californ est Pi	nia	r C)pera ypes	: Muc Rota	itinuous ht Auge sh	Seer L) Air Rotary A	otes: nalytical samples are shown in the "Ren urface elevation is an estimated value.	arks" (column.
							+								

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212	2C-M	1D-0	2200	T	ΕĮΤ	ETRA	ATEC	СН					LOG OF BORING AH-7		Page 1 of 1
Proj	ect N	lam	e: War	ren Un	it Wa	ater	Tran	sfer	Line	Rele	ase				
Bore	hole	Loc	cation:	GPS: 32.5	54186	1°, -10	03.154	1383°				Surface Elevat	on: 3532 ft		
Bore	hole	. Nu	mber: A	\H-7						E	Boreh	ole eter (in.):	Date Started: 8/19/2020 Dat	e Finishe	ed: 8/19/2020
			D (m)	(ma	8Y (%)	(%) LN:			EX			While Drilling	WATER LEVEL OBSERVATIONS Variable DRY ft Upon Completion of Drilling	<u>Ā</u> [DRY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG		TERIAL DESCRIPTION	DEPTH (ft)	REMARKS
	F	m	-	-								-SM- SILT with no sta	SAND: Red, loose, dry, with no odor,	1	AH-7 (0'-1')
					I		<u> </u>	l		<u> </u>	<u>r: E:41</u>		ottom of borehole at 1.0 feet.		, ,
Sam	nler		Split					Oners	ation						
Sam Type	pier es:		Split Spoon Shelby Bulk Sample Grab Sample	V X	cetate 'ane S Californ est Pi	nia	r T	pera ypes	Mud Rota	itinuou: ht Auge sh	s er	Air Rotary	otes: .nalytical samples are shown in the "Re .urface elevation is an estimated value.	marks"	column.

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212	C-M	ID-0	2200	T	ŧ	ETR	A TEC	СН					L	OG OF BORING BH-1			Page 1 of 1
Proje	ect N	lam	e: Wa	rren Un	it W	ater	Tran	sfer	Line	Rele	ase						
Bore	hole	Lo	cation:	GPS: 32.	54172	28°, -1	03.15	1247°				Surface Elevat	ion:	3530 ft			
Bore	hole	Nu	mber:	BH-1						E	Boreh Diame	ole eter (in.):		Date Started: 8/19/2020	Date F	inishe	d: 8/19/2020
	ш		ppm)	(mdd	ERY (%)	TENT (%)	of)		NDEX			While Drilling Remarks:		ATER LEVEL OBSERVATION DRY ft Upon Completion of		Ā	DRY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MA	ΤE	RIAL DESCRIPTION		DEPTH (ft)	REMARKS
	1	m	24	0.0								-SM- SILT with no stai	Y S/	AND: Red, loose, dry, with no o	odor,		BH-1 (0'-1')
- -	ł	M	0.0	0.0								with no odd	or, w	AND: Reddish white, loose, dryith no staining. AND: White, loose, wet, with n		1.5	BH-1 (2'-3')
5	1	m	21	0.0								odor, with r		taining. om of borehole at 5.0 feet.		5	BH-1 (4'-5')
Sam Type	pler es:	1, 1, 1, 1	Split Spoon Shelby Bulk Sample Grab Sample				r 7	Opera Types	Mud Rota	ary ntinuou ht Aug sh	s er	Air Rotary	Note: Ana Surf	s: lytical samples are shown in thace elevation is an estimated	ne "Rem value.	arks" (column.

ceive	<i>d b</i> j	v 0	CD: 3/	19/2021	12:	57:4	17 P	<u> </u>					Page 33 of
212	C-N	1D-0	2200	T	ĘŢ	ETR	A TEC	СН				LOG OF BORING BH-2	Page 1 of 1
Proje	ect N	lam	e: Wa	rren Un	it W	ater	Tran	sfer	Line	Rele	ease		
Bore	hole	Lo	cation:	GPS: 32.	54160)5°, -1	03.154	1373°				Surface Elevation: 3530 ft	
Bore	hole	Nu	mber:	BH-2						E	Boreh Diame	ole Date Started: 7/14/2020 Date Finished	: 7/14/2020
			Om)	(mo	RY (%)	ENT (%)			DEX			WATER LEVEL OBSERVATIONS While Drilling ▼ DRY ft Upon Completion of Drilling ▼ DI Remarks:	RY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	T LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION (#) H dd	REMARKS
	}	m	78	0.0								-SM- SILTY SAND: Brown, loose, dry, with no odor, with no staining.	BH-2 (0'-1')
 	ł	<u>en</u>	109	0.0								2" bed of cementation @ 0.25' -SM- SILTY SAND: Brown, loose, dry, with no	BH-2 (2'-3')
_ _	ł	m	201	0.0								-ML- SANDY SILT: Brownish white, loose, wet, with no odor, with no staining.	BH-2 (4'-5')
												Bottom of borehole at 5.0 feet.	
Sam Type	pler s:	1	Split Spoor Shelby Bulk Sampl Grab Sampl	e Ho	Acetato /ane S Califor est P	nia	r T	opera ypes	Mud Rota	ary itinuou ht Aug sh	s E	Hand Auger Air Rotary Direct Push Core Barrel Notes: Analytical samples are shown in the "Remarks" c Surface elevation is an estimated value.	olumn.

<u>ceive</u>	<u>d b</u> y	<i>,</i> 0	CD: 3/	<u>19/2021</u>	12:	57:4	7 P	M_{\perp}					Page 34 of
212	C-M	D-0	2200	T	ĘŢ	ETRA	A TEC	СН				LOG OF BORING BH-3	Page 1 of 1
Proje	ect N	lam	e: Wa	rren Un	it W	ater	Tran	sfer	Line	Rele	ase		
Bore	hole	Lo	cation:	GPS: 32.5	54164	1°, -10	03.154	1444°				Surface Elevation: 3531 ft	
Bore	hole	Nu	mber:	BH-3						E	Boreh	ole 2 Date Started: 7/14/2020 Date Finished:	7/14/2020
			(md	(wd	RY (%)	ENT (%)			DEX		Латте	WATER LEVEL OBSERVATIONS While Drilling □ DRY True DRY Remarks:	
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION (ま)	REMARKS
-	}		79 101	0.0								: odor, with no stanning.	BH-3 (0'-1') BH-3 (2'-3')
_	1	0										3.5 -SM- SILTY SAND: Brown, loose, wet, with no	3110 (2 0)
5_	1	m	39	0.0								odor, with no staining. Bottom of borehole at 5.0 feet.	BH-3 (4'-5')
Sam Type	pler s:	6	Split Spoon Shelby Bulk Sampl Grab Sampl				r T	Opera Types	Mud Rota	ntinuou: ht Auge sh	s er	Hand Auger Air Rotary Direct Push Core Barrel Notes: Analytical samples are shown in the "Remarks" consumption of the properties of th	olumn.

<u>ceive</u>	<i>d b</i> j	v 0	CD: 3/	<u>19/2021</u>	12:	<u>57:4</u>	17 P	<u> </u>					Page 35 of
212	C-N	1D-0	2200	T	ĘŢ	ETR	A TEC	СН				LOG OF BORING BH-4	Page 1 of 1
Proje	ect N	lam	e: Wa	rren Un	it W	ater	Tran	sfer	Line	Rele	ase	9	
Bore	hole	Lo	cation:	GPS: 32.	54168	31°, -1	03.154	4317°				Surface Elevation: 3530 ft	
Bore	hole	Nu	mber:	BH-4						E	Boreh Diame	chole neter (in.): 2 Date Started: 8/19/2020 Date Finished: 8/1	9/2020
			D)	(md	RY (%)	ENT (%)	(DEX			WATER LEVEL OBSERVATIONS While Drilling □ DRY ft Upon Completion of Drilling □ DRY ft Remarks:	
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	T LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION (#) HL HE	EMARKS
	}	m	0.0	0.0								-SM- SILTY SAND: Red, loose, dry, with no odor, with no staining.	(0'-1')
-	ł	8P)	49.5	0.0								-SM- SILTY SAND: Reddish white, loose, dry, with no odor, with no staining. -SM- SILTY SAND: White, loose, dry, with no	(2'-3')
5	1	m	0.0	0.0								odor, with no staining. BH-4 ((4'-5')
Sam Type	pler es:	1	Split Spoon Shelby Bulk Sampl Grab Sampl		Acetatoriane Statement Califor Test P	nia	r 1	Opera Types	Mud Rota	ary itinuou: ht Auge sh	s E	Hand Auger Air Rotary Direct Push Core Barrel Notes: Analytical samples are shown in the "Remarks" column surface elevation is an estimated value.	٦.

ceived b	y 0	CD: 3/1	9/2021	12:	57:4	17 P	<u> </u>					Page 36 of
212C-N	/ID-0	2200	T	ĘŢ	ETRA	ATEC	СН				LOG OF BORING BH-5	Page 1 of 1
Project	Nam	e: War	ren Un	it W	ater	Tran	sfer	Line	Rele	ease		
Borehol	e Lo	cation:	GPS: 32.5	54161	6°, -10	03.154	4295°				Surface Elevation: 3531 ft	
Borehol	e Nu	mber: [3H-5						E	Boreh Diame	ole ter (in.): Date Started: 7/14/2020 Date Finished	: 7/14/2020
		Om)	(шс	۲۲ (%)	ENT (%)			DEX		Jame	WATER LEVEL OBSERVATIONS	RY_ft
DEPTH (ft) OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	T LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION (i) H Ag D D D D D D D D D D D D D	REMARKS
	E 2	91	0.0								-SM- SILTY SAND: Brown, loose, dry, with no odor, with no staining.	BH-5 (0'-1')
	E.	111	0.0								-SM- SILTY SAND: Brown, loose, wet, with no	BH-5 (2'-3')
5	m	57	0.0								odor, with no staining. Bottom of borehole at 5.0 feet.	BH-5 (4'-5')
Sample Types:	-	Split Spoon Shelby	-	cetat	e Line	r T	Opera Types	ation s: Muc Rota	d		Hand Auger Notes: Air Rotary Air Rotary Surface elevation is an estimated value.	

ceived	! by C	CD: 3/	<u> 19/2021</u>	12:	<u>57:4</u>	7 P	И				Page 37
2120	C-MD-	02200	T	ΕĮΤ	ETRA	TEC	СН				LOG OF BORING BH-6 Page
Projec	ct Nan	ne: Wa	ırren Un	it W	ater ·	Tran	sfer	Line	Rele	ease	
Boreh	ole Lo	cation:	GPS: 32.5	54153	1°, -10	3.154	1390°				Surface Elevation: 3531 ft
Boreh	ole N	ımber:	BH-6						E	Boreho Diame	hole beter (in.): 2 Date Started: 7/14/2020 Date Finished: 7/14/2020
	ш	(mdd	(mdd	ERY (%)	TENT (%)	ුර		NDEX			WATER LEVEL OBSERVATIONS While Drilling □ DRY ft Upon Completion of Drilling □ DRY ft Remarks:
DEPTH (ft)	OPERATION TYPE SAMPLE	XX CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	☐ PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION REMARKS
_		100	0.0								-SM- SILTY SAND: Brown, loose, dry, with no odor, with no staining. BH-6 (0'-1') BH-6 (2'-3')
5	m	215	0.0								-ML- SANDY SILT: Brown, loose, wet, with no odor, with no staining.
Somp		Cult					Dhara	ition			
Samp Types		Split Spoor Shelby Bulk Sampl Grab Sampl	v V	cetate dane S Californ	nia	- C)pera ypes	Mud Rota	ary tinuou nt Aug sh	as er	Hand Auger Air Rotary Direct Push Core Barrel Notes: Analytical samples are shown in the "Remarks" column. Surface elevation is an estimated value.

<u>ceive</u>	<u>d b</u> յ	0	CD: 3/	9/2021	12:	<i>57:4</i>	17 P	<u> </u>										Page 38 of
212	C-M	ID-0	2200	T	ĘŢ	ETRA	ATEC	СН					LO	OG OF BORING BH	-7			Page 1 of 1
Proje	ect N	lam	e: Wa	rren Un	it W	ater	Tran	sfer	Line	Rele	ease							
Bore	hole	Loc	cation:	GPS: 32.	54161	4°, -10	03.154	1367°				Surface Eleva	ation:	3530 ft				
Bore	hole	Nu	mber:	BH-7						E	Boreh Diame	ole eter (in.):		Date Started: 8/19/2020		Date F	inished	: 8/19/2020
			md)	(md	RY (%)	ENT (%)	l)		DEX			While Drilling		ATER LEVEL OBSERV. DRY ft Upon Completion			Ā Dŀ	RY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	SCREENING (ppm)	UOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	D PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	M	ATE	RIAL DESCRIPTION			DEPTH (ft)	REMARKS
	F	m	-	-								-SM- SILT odor, with	TY S	AND: Brown, loose, dry, w	ith no		1	BH-7 (0'-1')
					1	I	l	l	1	1	F. L.T.	u odor, with		om of borehole at 1.0 feet	t.			. ,
Sam	nler		√ Solit					Dpera	ation									
Sam Type	es:		Split Spoon Shelby Bulk Sample Grab Sample		/ane S Califor Test P	nia	' T	pera ypes	Mud Rota	ary ntinuou ht Aug sh	s er	Hand Auger Air Rotary Direct Push Core Barrel	Note: Ana Surf	s: lytical samples are shown ace elevation is an estima	in the	e "Rema alue.	arks" c	olumn.

<u>cei</u>	ed b	у <u>О</u>	CD: 3/	19/2021	12:	·57:4	17 P	<u>и_</u>									Page 39 of
2	12C-N	1D-0	2200	T	ŧ	ETRA	A TEC	СН					L	OG OF BORING BH-8			Page 1 of 1
Pro	oject N	Nam	e: Wa	rren Un	it W	ater	Tran	sfer	Line	Rele	ase						
Во	rehole	e Lo	cation:	GPS: 32.	54159	94°, -10	03.154	4375°			;	Surface Eleva	tion:	3530 ft			
Во	rehole	e Nu	mber:	BH-8						B	oreho	ole ter (in.): 2		Date Started: 8/19/2020	Date F	inished	i: 8/19/2020
			D. (mo	(mo	۲۲ (%)	ENT (%)			DEX			While Drilling		/ATER LEVEL OBSERVATIO		Ā D	RY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG			RIAL DESCRIPTION		DEPTH (ft)	REMARKS
	1	m	-	-								-SM- SILT odor, with	YS.	AND: Brown, loose, dry, with no)	1	BH-8 (0'-1')
				1	1	1			1					om of borehole at 1.0 feet.			
Sa	mpler		✓ Split					Dpera	ation								
Ty	mpier bes:		Split Spoon Shelby Bulk Sampl Grab Sampl	e X 0	Acetate /ane S Califor Fest P	nia		pera Types	Muc Rota	ary itinuous nt Auge sh		Air Rotary	Note Ana Surf	s: lytical samples are shown in the face elevation is an estimated v	e "Rema alue.	arks" o	column.

APPENDIX D Laboratory Analytical Data



ANALYTICAL REPORT

July 29, 2020

Ср



³Ss

*Cn

°Sr

⁷Gl

⁸Al

⁹Sc

ConocoPhillips - Tetra Tech

Sample Delivery Group: L1241838 Samples Received: 07/21/2020

Project Number: 212C-MD-02200

Description: Warren Unit Wtr. Transfer

Report To: Christian Llull

901 West Wall

Suite 100

Midland, TX 79701

Entire Report Reviewed By:

Chris McCord

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-0686. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	6
Sr: Sample Results	7
BH-2 (0-1') L1241838-01	7
BH-2 (2-3') L1241838-02	8
BH-2 (4-5') L1241838-03	9
BH-3 (0-1') L1241838-04	10
BH-3 (2-3') L1241838-05	11
BH-3 (4-5') L1241838-06	12
BH-5 (0-1') L1241838-07	13
BH-5 (2-3') L1241838-08	14
BH-5 (4-5') L1241838-09	15
BH-6 (0-1') L1241838-10	16
BH-6 (2-3') L1241838-11	17
BH-6 (4-5') L1241838-12	18
Qc: Quality Control Summary	19
Total Solids by Method 2540 G-2011	19
Wet Chemistry by Method 300.0	21
Volatile Organic Compounds (GC) by Method 8	8015D/GRO 22
Volatile Organic Compounds (GC/MS) by Metho	od 8260B 25
Semi-Volatile Organic Compounds (GC) by Me	thod 8015 26
GI: Glossary of Terms	27
Al: Accreditations & Locations	28



















Sc: Sample Chain of Custody

29



BH-2 (0-1') L1241838-01 Solid			Collected by Adrian	Collected date/time 07/14/20 10:00	07/21/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1514253	1	07/28/20 07:04	07/28/20 07:17	KBC	Mt. Juliet, TI
/et Chemistry by Method 300.0	WG1513059	1	07/23/20 11:59	07/23/20 15:19	MCG	Mt. Juliet, T
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1514644	1	07/22/20 16:27	07/24/20 20:04	DWR	Mt. Juliet, T
olatile Organic Compounds (GC/MS) by Method 8260B	WG1513778	1	07/22/20 16:27	07/23/20 09:21	JAH	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1515220	20	07/25/20 20:55	07/26/20 14:52	TJD	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
3H-2 (2-3') L1241838-02 Solid			Adrian	07/14/20 10:00	07/21/20 08:	45
ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1514253	1	07/28/20 07:04	07/28/20 07:17	KBC	Mt. Juliet, Ti
et Chemistry by Method 300.0	WG1513059	1	07/23/20 11:59	07/23/20 15:36	MCG	Mt. Juliet, T
platile Organic Compounds (GC) by Method 8015D/GRO	WG1514644	1.01	07/22/20 16:27	07/24/20 20:28	DWR	Mt. Juliet, T
olatile Organic Compounds (GC/MS) by Method 8260B	WG1513778	1	07/22/20 16:27	07/23/20 09:41	JAH	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1515220	1	07/25/20 20:55	07/26/20 11:00	TJD	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
H-2 (4-5') L1241838-03 Solid			Adrian	07/14/20 10:00	07/21/20 08:	45
ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1514253	1	07/28/20 07:04	07/28/20 07:17	KBC	Mt. Juliet, T
et Chemistry by Method 300.0	WG1513059	1	07/23/20 11:59	07/23/20 15:54	MCG	Mt. Juliet, T
platile Organic Compounds (GC) by Method 8015D/GRO	WG1514644	1	07/22/20 16:27	07/24/20 20:52	DWR	Mt. Juliet, T
platile Organic Compounds (GC/MS) by Method 8260B	WG1513778	1.1	07/22/20 16:27	07/23/20 10:01	JAH	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1515220	1	07/25/20 20:55	07/26/20 11:13	TJD	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
8H-3 (0-1') L1241838-04 Solid			Adrian	07/14/20 11:00	07/21/20 08:	45
ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1514253	1	07/28/20 07:04	07/28/20 07:17	KBC	Mt. Juliet, T
et Chemistry by Method 300.0	WG1513059	1	07/23/20 11:59	07/23/20 16:11	MCG	Mt. Juliet, T
platile Organic Compounds (GC) by Method 8015D/GRO	WG1514644	1	07/22/20 16:27	07/24/20 21:16	DWR	Mt. Juliet, Ti
platile Organic Compounds (GC/MS) by Method 8260B	WG1513778	1	07/22/20 16:27	07/23/20 10:21	JAH	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1515220	1	07/25/20 20:55	07/26/20 11:26	TJD	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
8H-3 (2-3') L1241838-05 Solid			Adrian	07/14/20 11:00	07/21/20 08:	45
ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
Califability Mathewal OF AC C COM	11101511055	4	date/time	date/time	L/DC	M
otal Solids by Method 2540 G-2011	WG1514253	1	07/28/20 07:04	07/28/20 07:17	KBC	Mt. Juliet, T
et Chemistry by Method 300.0	WG1513059	1	07/23/20 11:59	07/23/20 17:03	MCG	Mt. Juliet, T
platile Organic Compounds (GC) by Method 8015D/GRO	WG1514653	1	07/22/20 16:27	07/24/20 12:33	ADM	Mt. Juliet, T
olatile Organic Compounds (GC/MS) by Method 8260B	WG1513778	1	07/22/20 16:27	07/23/20 10:41	JAH	Mt. Juliet, TI
emi-Volatile Organic Compounds (GC) by Method 8015	WG1515220	1	07/25/20 20:55	07/26/20 12:04	TJD	Mt. Juliet, T





















	07 11111 22 0					
BH-3 (4-5') L1241838-06 Solid			Collected by Adrian	Collected date/time 07/14/20 11:00	Received da: 07/21/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time	, , , ,	
Fotal Solids by Method 2540 G-2011	WG1514253	1	07/28/20 07:04	07/28/20 07:17	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1513059	1	07/23/20 11:59	07/23/20 17:21	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1515130	1.01	07/22/20 16:27	07/25/20 19:58	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1513778	1	07/22/20 16:27	07/23/20 11:01	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1515220	1	07/25/20 20:55	07/26/20 11:39	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BH-5 (0-1') L1241838-07 Solid			Adrian	07/14/20 12:00	07/21/20 08:	45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1514253	1	07/28/20 07:04	07/28/20 07:17	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1513059	1	07/23/20 11:59	07/23/20 17:38	MCG	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1514653	1	07/22/20 16:27	07/24/20 14:37	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1513778	1	07/22/20 16:27	07/23/20 11:21	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1515220	1	07/25/20 20:55	07/26/20 11:52	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BH-5 (2-3') L1241838-08 Solid			Adrian	07/14/20 12:00	07/21/20 08:	45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1514253	1	07/28/20 07:04	07/28/20 07:17	KBC	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1513059	1	07/23/20 11:59	07/23/20 17:56	MCG	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1514653	1.01	07/22/20 16:27	07/24/20 14:58	ADM	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1513778	1	07/22/20 16:27	07/23/20 11:41	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1515220	1	07/25/20 20:55	07/26/20 12:17	TJD	Mt. Juliet, TN
			Collected by	Callagtad data/times		h = /h!
BH-5 (4-5') L1241838-09 Solid			Collected by	Collected date/time	Received da	te/time
21.0 (10) 212 11000 00 00110			Adrian	07/14/20 12:00	07/21/20 08:	
, ,	Batch	Dilution	•			
Method	Batch WG1514254	Dilution 1	Adrian Preparation	07/14/20 12:00 Analysis	07/21/20 08:	45
Total Solids by Method 2540 G-2011			Adrian Preparation date/time	07/14/20 12:00 Analysis date/time	07/21/20 08: Analyst KBC	Location
Method Total Solids by Method 2540 G-2011 Vet Chemistry by Method 300.0	WG1514254	1	Adrian Preparation date/time 07/28/20 06:28	07/14/20 12:00 Analysis date/time 07/28/20 07:01	07/21/20 08: Analyst	Location Mt. Juliet, TN
Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GRO	WG1514254 WG1513059	1 1	Adrian Preparation date/time 07/28/20 06:28 07/23/20 11:59	07/14/20 12:00 Analysis date/time 07/28/20 07:01 07/23/20 18:13	O7/21/20 08: Analyst KBC MCG	Location Mt. Juliet, TN Mt. Juliet, TN
Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B	WG1514254 WG1513059 WG1514653	1 1 1	Adrian Preparation date/time 07/28/20 06:28 07/23/20 11:59 07/22/20 16:27	07/14/20 12:00 Analysis date/time 07/28/20 07:01 07/23/20 18:13 07/24/20 15:19	O7/21/20 08: Analyst KBC MCG ADM	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
Method Fotal Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B	WG1514254 WG1513059 WG1514653 WG1513778	1 1 1 1	Adrian Preparation date/time 07/28/20 06:28 07/23/20 11:59 07/22/20 16:27 07/22/20 16:27	07/14/20 12:00 Analysis date/time 07/28/20 07:01 07/23/20 18:13 07/24/20 15:19 07/23/20 12:01	O7/21/20 08: Analyst KBC MCG ADM JAH	Location Mt. Juliet, TN
Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015	WG1514254 WG1513059 WG1514653 WG1513778	1 1 1 1	Adrian Preparation date/time 07/28/20 06:28 07/23/20 11:59 07/22/20 16:27 07/22/20 16:27 07/25/20 20:55	07/14/20 12:00 Analysis date/time 07/28/20 07:01 07/23/20 18:13 07/24/20 15:19 07/23/20 12:01 07/26/20 10:08	Analyst KBC MCG ADM JAH TJD	Location Mt. Juliet, TN
Method Fotal Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GRO /olatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 BH-6 (O-1') L1241838-10 Solid	WG1514254 WG1513059 WG1514653 WG1513778	1 1 1 1	Adrian Preparation date/time 07/28/20 06:28 07/23/20 11:59 07/22/20 16:27 07/22/20 16:27 07/25/20 20:55 Collected by Adrian Preparation	07/14/20 12:00 Analysis date/time 07/28/20 07:01 07/23/20 18:13 07/24/20 15:19 07/23/20 12:01 07/26/20 10:08 Collected date/time 07/14/20 13:00 Analysis	Analyst KBC MCG ADM JAH TJD Received dat	Location Mt. Juliet, TN
Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GRO /olatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 BH-6 (O-1') L1241838-10 Solid Method	WG1514254 WG1513059 WG1514653 WG1513778 WG1515220	1 1 1 1 1	Adrian Preparation date/time 07/28/20 06:28 07/23/20 11:59 07/22/20 16:27 07/22/20 20:55 Collected by Adrian Preparation date/time	07/14/20 12:00 Analysis date/time 07/28/20 07:01 07/23/20 18:13 07/24/20 15:19 07/23/20 12:01 07/26/20 10:08 Collected date/time 07/14/20 13:00 Analysis date/time	Analyst KBC MCG ADM JAH TJD Received da' 07/21/20 08:	Location Mt. Juliet, TN Le/time Location
Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 /olatile Organic Compounds (GC) by Method 8015D/GRO /olatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 BH-6 (O-1') L1241838-10 Solid Method Total Solids by Method 2540 G-2011	WG1514254 WG1513059 WG1514653 WG1513778 WG1515220 Batch	1 1 1 1 1 Dilution	Adrian Preparation date/time 07/28/20 06:28 07/23/20 11:59 07/22/20 16:27 07/22/20 20:55 Collected by Adrian Preparation date/time 07/28/20 06:28	07/14/20 12:00 Analysis date/time 07/28/20 07:01 07/23/20 18:13 07/24/20 15:19 07/23/20 12:01 07/26/20 10:08 Collected date/time 07/14/20 13:00 Analysis date/time 07/28/20 07:01	Analyst KBC MCG ADM JAH TJD Received da 07/21/20 08: Analyst KBC	Location Mt. Juliet, TN te/time 45 Location Mt. Juliet, TN
Method Fotal Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 //olatile Organic Compounds (GC) by Method 8015D/GRO //olatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 BH-6 (O-1') L1241838-10 Solid Method Fotal Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0	WG1514254 WG1513059 WG1514653 WG1513778 WG1515220 Batch WG1514254 WG1513059	1 1 1 1 1 Dilution	Adrian Preparation date/time 07/28/20 06:28 07/23/20 11:59 07/22/20 16:27 07/25/20 20:55 Collected by Adrian Preparation date/time 07/28/20 06:28 07/23/20 11:59	07/14/20 12:00 Analysis date/time 07/28/20 07:01 07/23/20 18:13 07/24/20 15:19 07/23/20 12:01 07/26/20 10:08 Collected date/time 07/14/20 13:00 Analysis date/time 07/28/20 07:01 07/23/20 18:31	Analyst KBC MCG ADM JAH TJD Received da 07/21/20 08: Analyst KBC MCG	Location Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN
Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015 BH-6 (O-1') L1241838-10 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Volatile Organic Compounds (GC) by Method 8015D/GRO Volatile Organic Compounds (GC/MS) by Method 8260B	WG1514254 WG1513059 WG1514653 WG1513778 WG1515220 Batch	1 1 1 1 1 Dilution	Adrian Preparation date/time 07/28/20 06:28 07/23/20 11:59 07/22/20 16:27 07/22/20 20:55 Collected by Adrian Preparation date/time 07/28/20 06:28	07/14/20 12:00 Analysis date/time 07/28/20 07:01 07/23/20 18:13 07/24/20 15:19 07/23/20 12:01 07/26/20 10:08 Collected date/time 07/14/20 13:00 Analysis date/time 07/28/20 07:01	Analyst KBC MCG ADM JAH TJD Received da 07/21/20 08: Analyst KBC	Location Mt. Juliet, TN te/time 45 Location Mt. Juliet, TN



















			Collected by	Collected date/time	Received da	te/time
BH-6 (2-3') L1241838-11 Solid			Adrian	07/14/20 13:00	07/21/20 08:	45
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1514254	1	07/28/20 06:28	07/28/20 07:01	KBC	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1513059	1	07/23/20 11:59	07/23/20 18:48	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1514653	1	07/22/20 16:27	07/24/20 16:00	ADM	Mt. Juliet, Ti
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1513778	1	07/22/20 16:27	07/23/20 12:41	JAH	Mt. Juliet, Ti
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1515220	1	07/25/20 20:55	07/26/20 12:43	TJD	Mt. Juliet, Ti
			Collected by	Collected date/time	Received da	te/time
BH-6 (4-5') L1241838-12 Solid			Adrian	07/14/20 13:00	07/21/20 08:	45
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1514254	1	07/28/20 06:28	07/28/20 07:01	KBC	Mt. Juliet, Ti
Wet Chemistry by Method 300.0	WG1513059	1	07/23/20 11:59	07/23/20 19:05	MCG	Mt. Juliet, TI
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1514653	1	07/22/20 16:27	07/24/20 16:21	ADM	Mt. Juliet, Ti
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1513778	1	07/22/20 16:27	07/23/20 13:01	JAH	Mt. Juliet, TI
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1515220	1	07/25/20 20:55	07/26/20 10:34	TJD	Mt. Juliet, Th



















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.

















ONE LAB. NAT Page 47. of 145

Collected date/time: 07/14/20 10:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	98.0		1	07/28/2020 07:17	<u>WG1514253</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	12.9	<u>J</u>	9.39	20.4	1	07/23/2020 15:19	WG1513059



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0408	ВЈ	0.0221	0.102	1	07/24/2020 20:04	WG1514644
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		07/24/2020 20:04	WG1514644



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

•							
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000477	0.00102	1	07/23/2020 09:21	WG1513778
Toluene	U		0.00133	0.00510	1	07/23/2020 09:21	WG1513778
Ethylbenzene	U		0.000752	0.00255	1	07/23/2020 09:21	WG1513778
Total Xylenes	U		0.000898	0.00663	1	07/23/2020 09:21	WG1513778
(S) Toluene-d8	103			75.0-131		07/23/2020 09:21	WG1513778
(S) 4-Bromofluorobenzene	105			67.0-138		07/23/2020 09:21	WG1513778
(S) 1,2-Dichloroethane-d4	120			70.0-130		07/23/2020 09:21	WG1513778



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	420		32.9	81.6	20	07/26/2020 14:52	WG1515220
C28-C40 Oil Range	891		5.59	81.6	20	07/26/2020 14:52	WG1515220
(S) o-Terphenyl	0.000	J7		18.0-148		07/26/2020 14:52	WG1515220

Collected date/time: 07/14/20 10:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	80.6		1	07/28/2020 07:17	WG1514253



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		11.4	24.8	1	07/23/2020 15:36	WG1513059



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0494	ВЈ	0.0272	0.125	1.01	07/24/2020 20:28	WG1514644
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		07/24/2020 20:28	WG1514644



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000692	0.00148	1	07/23/2020 09:41	WG1513778
Toluene	U		0.00193	0.00741	1	07/23/2020 09:41	WG1513778
Ethylbenzene	U		0.00109	0.00371	1	07/23/2020 09:41	WG1513778
Total Xylenes	U		0.00130	0.00964	1	07/23/2020 09:41	WG1513778
(S) Toluene-d8	104			75.0-131		07/23/2020 09:41	WG1513778
(S) 4-Bromofluorobenzene	105			67.0-138		07/23/2020 09:41	WG1513778
(S) 1,2-Dichloroethane-d4	112			70.0-130		07/23/2020 09:41	WG1513778



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		2.00	4.96	1	07/26/2020 11:00	WG1515220
C28-C40 Oil Range	U		0.340	4.96	1	07/26/2020 11:00	WG1515220
(S) o-Terphenyl	63.6			18.0-148		07/26/2020 11:00	WG1515220

ONE LAB. NAT Page 49 of 145

Collected date/time: 07/14/20 10:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	92.4		1	07/28/2020 07:17	WG1514253



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	133		9.96	21.7	1	07/23/2020 15:54	WG1513059



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0358	ВЈ	0.0235	0.108	1	07/24/2020 20:52	WG1514644
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120		07/24/2020 20:52	WG1514644



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

•							
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000556	0.00119	1.1	07/23/2020 10:01	WG1513778
Toluene	U		0.00155	0.00595	1.1	07/23/2020 10:01	WG1513778
Ethylbenzene	U		0.000878	0.00298	1.1	07/23/2020 10:01	WG1513778
Total Xylenes	U		0.00105	0.00774	1.1	07/23/2020 10:01	WG1513778
(S) Toluene-d8	105			75.0-131		07/23/2020 10:01	WG1513778
(S) 4-Bromofluorobenzene	105			67.0-138		07/23/2020 10:01	WG1513778
(S) 1,2-Dichloroethane-d4	107			70.0-130		07/23/2020 10:01	WG1513778



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.74	4.33	1	07/26/2020 11:13	WG1515220
C28-C40 Oil Range	0.642	<u>J</u>	0.297	4.33	1	07/26/2020 11:13	WG1515220
(S) o-Terphenyl	62.6			18.0-148		07/26/2020 11:13	WG1515220

ONE LAB. NAT Page 50 of 145

Collected date/time: 07/14/20 11:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	84.0		1	07/28/2020 07:17	<u>WG1514253</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	17.5	<u>J</u>	11.0	23.8	1	07/23/2020 16:11	WG1513059



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0455	ВЈ	0.0258	0.119	1	07/24/2020 21:16	WG1514644
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		07/24/2020 21:16	WG1514644



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000645	0.00138	1	07/23/2020 10:21	WG1513778
Toluene	U		0.00180	0.00691	1	07/23/2020 10:21	WG1513778
Ethylbenzene	U		0.00102	0.00345	1	07/23/2020 10:21	WG1513778
Total Xylenes	U		0.00122	0.00898	1	07/23/2020 10:21	WG1513778
(S) Toluene-d8	108			75.0-131		07/23/2020 10:21	WG1513778
(S) 4-Bromofluorobenzene	108			67.0-138		07/23/2020 10:21	WG1513778
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/23/2020 10:21	WG1513778



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.92	4.76	1	07/26/2020 11:26	WG1515220
C28-C40 Oil Range	0.929	<u>J</u>	0.326	4.76	1	07/26/2020 11:26	WG1515220
(S) o-Terphenyl	48.0			18.0-148		07/26/2020 11:26	WG1515220

ONE LAB. NAT Page 51 of 145

Collected date/time: 07/14/20 11:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	98.7		1	07/28/2020 07:17	WG1514253



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	49.3		9.32	20.3	1	07/23/2020 17:03	WG1513059



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	07/24/2020 12:33	WG1514653
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		07/24/2020 12:33	WG1514653



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

			•				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000473	0.00101	1	07/23/2020 10:41	WG1513778
Toluene	U		0.00132	0.00507	1	07/23/2020 10:41	WG1513778
Ethylbenzene	U		0.000747	0.00253	1	07/23/2020 10:41	WG1513778
Total Xylenes	U		0.000892	0.00659	1	07/23/2020 10:41	WG1513778
(S) Toluene-d8	104			75.0-131		07/23/2020 10:41	WG1513778
(S) 4-Bromofluorobenzene	101			67.0-138		07/23/2020 10:41	WG1513778
(S) 1,2-Dichloroethane-d4	114			70.0-130		07/23/2020 10:41	WG1513778



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.98	<u>J</u>	1.63	4.05	1	07/26/2020 12:04	WG1515220
C28-C40 Oil Range	8.34		0.278	4.05	1	07/26/2020 12:04	WG1515220
(S) o-Terphenyl	76.2			18.0-148		07/26/2020 12:04	WG1515220



Collected date/time: 07/14/20 11:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	84.6		1	07/28/2020 07:17	WG1514253



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	14.3	<u>J</u>	10.9	23.6	1	07/23/2020 17:21	WG1513059



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0259	0.119	1.01	07/25/2020 19:58	WG1515130
(S) a,a,a-Trifluorotoluene(FID)	93.0			77.0-120		07/25/2020 19:58	WG1515130



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

•	'	, ,	•				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000638	0.00137	1	07/23/2020 11:01	WG1513778
Toluene	U		0.00177	0.00683	1	07/23/2020 11:01	WG1513778
Ethylbenzene	U		0.00101	0.00341	1	07/23/2020 11:01	WG1513778
Total Xylenes	U		0.00120	0.00887	1	07/23/2020 11:01	WG1513778
(S) Toluene-d8	104			75.0-131		07/23/2020 11:01	WG1513778
(S) 4-Bromofluorobenzene	102			67.0-138		07/23/2020 11:01	WG1513778
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/23/2020 11:01	WG1513778



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.08	<u>J</u>	1.90	4.73	1	07/26/2020 11:39	WG1515220
C28-C40 Oil Range	5.94		0.324	4.73	1	07/26/2020 11:39	WG1515220
(S) o-Terphenyl	65.8			18.0-148		07/26/2020 11:39	WG1515220

ONE LAB. NAT Page 53 of 145

Collected date/time: 07/14/20 12:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	84.0		1	07/28/2020 07:17	WG1514253



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	19.2	<u>J</u>	11.0	23.8	1	07/23/2020 17:38	WG1513059



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0258	0.119	1	07/24/2020 14:37	WG1514653
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		07/24/2020 14:37	WG1514653



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000646	0.00138	1	07/23/2020 11:21	WG1513778
Toluene	U		0.00180	0.00691	1	07/23/2020 11:21	WG1513778
Ethylbenzene	U		0.00102	0.00346	1	07/23/2020 11:21	WG1513778
Total Xylenes	U		0.00122	0.00899	1	07/23/2020 11:21	WG1513778
(S) Toluene-d8	104			<i>75.0-131</i>		07/23/2020 11:21	WG1513778
(S) 4-Bromofluorobenzene	101			67.0-138		07/23/2020 11:21	WG1513778
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/23/2020 11:21	WG1513778



Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.92	4.76	1	07/26/2020 11:52	WG1515220
C28-C40 Oil Range	2.56	<u>J</u>	0.326	4.76	1	07/26/2020 11:52	WG1515220
(S) o-Terphenyl	60.0			18.0-148		07/26/2020 11:52	WG1515220

13 of 31

ONE LAB. NATRAGE 54 of 145

Collected date/time: 07/14/20 12:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	86.8		1	07/28/2020 07:17	WG1514253



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	18.2	<u>J</u>	10.6	23.0	1	07/23/2020 17:56	WG1513059



Ss

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0252	0.116	1.01	07/24/2020 14:58	WG1514653
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		07/24/2020 14:58	WG1514653



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

	-						
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000609	0.00130	1	07/23/2020 11:41	WG1513778
Toluene	U		0.00170	0.00652	1	07/23/2020 11:41	WG1513778
Ethylbenzene	U		0.000962	0.00326	1	07/23/2020 11:41	WG1513778
Total Xylenes	U		0.00115	0.00848	1	07/23/2020 11:41	WG1513778
(S) Toluene-d8	105			<i>75.0-131</i>		07/23/2020 11:41	WG1513778
(S) 4-Bromofluorobenzene	108			67.0-138		07/23/2020 11:41	WG1513778
(S) 1,2-Dichloroethane-d4	119			70.0-130		07/23/2020 11:41	WG1513778



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.86	4.61	1	07/26/2020 12:17	WG1515220
C28-C40 Oil Range	4.11	<u>J</u>	0.316	4.61	1	07/26/2020 12:17	WG1515220
(S) o-Terphenyl	64.9			18.0-148		07/26/2020 12:17	WG1515220

ONE LAB. NATRAGE 55 of \$15

Collected date/time: 07/14/20 12:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	89.0		1	07/28/2020 07:01	WG1514254



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	13.9	<u>J</u>	10.3	22.5	1	07/23/2020 18:13	WG1513059



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0244	0.112	1	07/24/2020 15:19	WG1514653
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		07/24/2020 15:19	WG1514653



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

Ethylbenzene U 0.000919 0.00312 1 07/23/2020 12:01 WG1513778	3	- 1 (/	,				
Benzene U 0.000583 0.00125 1 07/23/2020 12:01 WG1513778 Toluene U 0.00162 0.00624 1 07/23/2020 12:01 WG1513778 Ethylbenzene U 0.000919 0.00312 1 07/23/2020 12:01 WG1513778 Total Xylenes U 0.00110 0.00811 1 07/23/2020 12:01 WG1513778 (S) Toluene-d8 106 75.0-131 07/23/2020 12:01 WG1513778 (S) 4-Bromofluorobenzene 104 67.0-138 07/23/2020 12:01 WG1513778		Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Toluene U 0.00162 0.00624 1 07/23/2020 12:01 WG1513778 Ethylbenzene U 0.000919 0.00312 1 07/23/2020 12:01 WG1513778 Total Xylenes U 0.00110 0.00811 1 07/23/2020 12:01 WG1513778 (S) Toluene-d8 106 75.0-131 07/23/2020 12:01 WG1513778 (S) 4-Bromofluorobenzene 104 67.0-138 07/23/2020 12:01 WG1513778	Analyte	mg/kg		mg/kg	mg/kg		date / time	
Ethylbenzene U 0.000919 0.00312 1 07/23/2020 12:01 WG1513778 Total Xylenes U 0.00110 0.00811 1 07/23/2020 12:01 WG1513778 (S) Toluene-d8 106 75.0-131 07/23/2020 12:01 WG1513778 (S) 4-Bromofluorobenzene 104 67.0-138 07/23/2020 12:01 WG1513778	Benzene	U		0.000583	0.00125	1	07/23/2020 12:01	WG1513778
Total Xylenes U 0.00110 0.00811 1 07/23/2020 12:01 WG1513778 (S) Toluene-d8 106 75.0-131 07/23/2020 12:01 WG1513778 (S) 4-Bromofluorobenzene 104 67.0-138 07/23/2020 12:01 WG1513778	Toluene	U		0.00162	0.00624	1	07/23/2020 12:01	WG1513778
(S) Toluene-d8 106 75.0-131 07/23/2020 12:01 WG1513778 (S) 4-Bromofluorobenzene 104 67.0-138 07/23/2020 12:01 WG1513778	Ethylbenzene	U		0.000919	0.00312	1	07/23/2020 12:01	WG1513778
(S) 4-Bromofluorobenzene 104 67.0-138 07/23/2020 12:01 WG1513778	Total Xylenes	U		0.00110	0.00811	1	07/23/2020 12:01	WG1513778
	(S) Toluene-d8	106			<i>75.0-131</i>		07/23/2020 12:01	WG1513778
(S) 1,2-Dichloroethane-d4 107 70.0-130 07/23/2020 12:01 <u>WG1513778</u>	(S) 4-Bromofluorobenzene	104			67.0-138		07/23/2020 12:01	WG1513778
	(S) 1,2-Dichloroethane-d4	107			70.0-130		07/23/2020 12:01	WG1513778



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.81	4.49	1	07/26/2020 10:08	WG1515220
C28-C40 Oil Range	5.67		0.308	4.49	1	07/26/2020 10:08	WG1515220
(S) o-Terphenyl	66.3			18.0-148		07/26/2020 10:08	WG1515220

ONE LAB. NAT Page 56 of 145

Collected date/time: 07/14/20 13:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	81.3		1	07/28/2020 07:01	<u>WG1514254</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	24.4	J	11.3	24.6	1	07/23/2020 18:31	WG1513059



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0267	0.123	1	07/24/2020 15:39	WG1514653
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		07/24/2020 15:39	WG1514653



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000682	0.00146	1	07/23/2020 12:21	WG1513778
Toluene	U		0.00190	0.00730	1	07/23/2020 12:21	WG1513778
Ethylbenzene	U		0.00108	0.00365	1	07/23/2020 12:21	WG1513778
Total Xylenes	U		0.00128	0.00949	1	07/23/2020 12:21	WG1513778
(S) Toluene-d8	103			75.0-131		07/23/2020 12:21	WG1513778
(S) 4-Bromofluorobenzene	104			67.0-138		07/23/2020 12:21	WG1513778
(S) 1,2-Dichloroethane-d4	120			70.0-130		07/23/2020 12:21	WG1513778



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.98	4.92	1	07/26/2020 10:22	WG1515220
C28-C40 Oil Range	U		0.337	4.92	1	07/26/2020 10:22	WG1515220
(S) o-Terphenyl	51.6			18.0-148		07/26/2020 10:22	WG1515220

ONE LAB. NAT Page 57. of 145

Collected date/time: 07/14/20 13:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	99.2		1	07/28/2020 07:01	<u>WG1514254</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.27	20.2	1	07/23/2020 18:48	WG1513059



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	07/24/2020 16:00	WG1514653
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		07/24/2020 16:00	WG1514653



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

	,	, ,					
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000471	0.00101	1	07/23/2020 12:41	WG1513778
Toluene	U		0.00131	0.00504	1	07/23/2020 12:41	WG1513778
Ethylbenzene	U		0.000743	0.00252	1	07/23/2020 12:41	WG1513778
Total Xylenes	U		0.000887	0.00655	1	07/23/2020 12:41	WG1513778
(S) Toluene-d8	102			75.0-131		07/23/2020 12:41	WG1513778
(S) 4-Bromofluorobenzene	102			67.0-138		07/23/2020 12:41	WG1513778
(S) 1,2-Dichloroethane-d4	115			70.0-130		07/23/2020 12:41	WG1513778

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.78	<u>J</u>	1.62	4.03	1	07/26/2020 12:43	WG1515220
C28-C40 Oil Range	5.64		0.276	4.03	1	07/26/2020 12:43	WG1515220
(S) o-Terphenyl	70.1			18.0-148		07/26/2020 12:43	WG1515220

ONE LAB. NATRAGE 58 of 145

Collected date/time: 07/14/20 13:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	88.8		1	07/28/2020 07:01	<u>WG1514254</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	120		10.4	22.5	1	07/23/2020 19:05	WG1513059



Cn

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0244	0.113	1	07/24/2020 16:21	WG1514653
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		07/24/2020 16:21	WG1514653



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000584	0.00125	1	07/23/2020 13:01	WG1513778
Toluene	U		0.00163	0.00625	1	07/23/2020 13:01	WG1513778
Ethylbenzene	U		0.000922	0.00313	1	07/23/2020 13:01	WG1513778
Total Xylenes	U		0.00110	0.00813	1	07/23/2020 13:01	WG1513778
(S) Toluene-d8	102			<i>75.0-131</i>		07/23/2020 13:01	WG1513778
(S) 4-Bromofluorobenzene	101			67.0-138		07/23/2020 13:01	WG1513778
(S) 1,2-Dichloroethane-d4	116			70.0-130		07/23/2020 13:01	WG1513778



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.81	4.50	1	07/26/2020 10:34	WG1515220
C28-C40 Oil Range	0.428	<u>J</u>	0.308	4.50	1	07/26/2020 10:34	WG1515220
(S) o-Terphenyl	67.6			18.0-148		07/26/2020 10:34	WG1515220

ONE LAB. NAT Page 59 of \$15

Total Solids by Method 2540 G-2011

L1241838-01,02,03,04,05,06,07,08

Method Blank (MB)

(MB) R3554042-1	07/28/20 07:17			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

Ss

[†]Cn

L1241838-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1241838-03	07/28/20 07:17 •	(DUP) R3554042-3	07/28/20 07:17
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(00) 2.2	Original Result			DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	92.4	92.0	1	0.438		10



Laboratory Control Sample (LCS)

(LCS) R3554042-2 0//28/	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	





ONE LAB. NAT Page 60 of \$15

Total Solids by Method 2540 G-2011

L1241838-09,10,11,12

Method Blank (MB)

(MB) R3554040-1 (07/28/20 07:01			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			



Ss

L1241844-01 Original Sample (OS) • Duplicate (DUP)

(OC) 11241044 O1 O7/20/20 O7/01 (DLID) D2EE4040 2 O7/20	20 07:01
(OS) L1241844-01 07/28/20 07:01 • (DUP) R3554040-3 07/28	20 07.01

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	71.7	76.1	1	5.91		10







(LCS)	R3554040-2	07/28/20	07:01
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(LCS) R3554040-2 07/28	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	





ONE LAB. NAT Page 61 of 15

Wet Chemistry by Method 300.0

L1241838-01,02,03,04,05,06,07,08,09,10,11,12

Method Blank (MB)

(MB) R3553300-1 07	/23/20 13:17				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Chloride	U		9.20	20.0	







L1241738-01 Original Sample (OS) • Duplicate (DUP) (OS) | 12/1738-01 | 07/23/20 1/:09 • (DLIP) P3553300-3 | 07/23/20 1/:27

(03) 21241/30-01 0//23/20	Original Result (dry)		Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	U	U	1	0.000		20









(OS) | 1241903-01 07/23/20 21:25 • (DLIP) R3553300-6 07/23/20 21:42

(00) 212 11000 01 07/20/20	Original Result (dry)		Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte				%		%
Chloride	99.3	104	1	4.58		20





Laboratory Control Sample (LCS)

(LCS) R3553300-2 07/23/20 13:34

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	204	102	90.0-110	



L1241845-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

/OST 12/19/15 01 07/22/20 19:23 - (MS) P2552200 4 07/22/20 19:40 - (MSD) P2552200 5 07/22/20 20:22

(O3) L1241645-01 (0//23/20 19.23 • (IVIS) F	1 3333300-4 0	1//23/20 19.40) • (IVISD) KSSS	3300-3 07/2	3/20 20.32							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Chloride	500	232	739	759	101	105	1	80.0-120			2.56	20	

ONE LAB. NAT Page 62 of 15

L1241838-01,02,03,04 Volatile Organic Compounds (GC) by Method 8015D/GRO

Method Blank (MB)

(MB) R3553322-2 07/24/	20 11:27			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	0.0480	<u>J</u>	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	97.5			77.0-120





[†]Cn

Laboratory Control Sample (LCS)

(LCS) R3553322-1 07/24/	20 10:39				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	.CS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.26	95.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			109	77.0-120	











ONE LAB. NAT Page 63 of \$15

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

L1241838-05,07,08,09,10,11,12

Method Blank (MB)

(MB) R3553085-2 07/24/	/20 11:51			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120





Laboratory Control Sample (LCS)

(LCS) R3553085-1 07/24/2	LCS) R3553085-1 07/24/20 11:10									
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/kg	mg/kg	%	%						
TPH (GC/FID) Low Fraction	5.50	6.95	126	72.0-127						
(S) a,a,a-Trifluorotoluene(FID)			102	77.0-120						





L1241865-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) I 1241865-01	07/24/20 19:06 •	(MS) R3553085	-4 07/24/20 20:49 •	(MSD) R3553085-5	07/24/20 21:10

(OS) L1241865-01 07/24/20 19:06 • (MS) R3553085-4 07/24/20 20:49 • (MSD) R3553085-5 07/24/20 21:10													
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	ſ
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	L
TPH (GC/FID) Low Fraction	5450	286	4160	3730	71.1	63.2	1000	10.0-151			10.9	28	
(S) a.a.a-Trifluorotoluene(FID)					97.2	97.5		77.0-120					





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

QUALITY CONTROL SUMMARY

ONE LAB. NAT Page 64 of \$15

L1241838-06

Method Blank (MB)

(MB) R3553274-2 07/25/20 12:03 MB RDL MB Result MB Qualifier MB MDL Analyte mg/kg mg/kg mg/kg U TPH (GC/FID) Low Fraction 0.0217 0.100 (S) a,a,a-Trifluorotoluene(FID) 94.5 77.0-120







[†]Cn

Laboratory Control Sample (LCS)

(LCS) R3553274-1 07/25/20 11:22										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/kg	mg/kg	%	%						
TPH (GC/FID) Low Fraction	5.50	4.93	89.6	72.0-127						
(S) a,a,a-Trifluorotoluene(FID)			108	77.0-120						











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QUALITY CONTROL SUMMARY

ONE LAB. NAT Page 65 of 145

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

L1241838-01,02,03,04,05,06,07,08,09,10,11,12

Method Blank (MB)

(S) 1,2-Dichloroethane-d4

(MB) R3553517-2 07/23/2	20 05:58					
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	mg/kg		mg/kg	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	107			75.0-131		
(S) 4-Bromofluorobenzene	105			67.0-138		
(S) 1,2-Dichloroethane-d4	103			70.0-130		

Laboratory Control Sample (LCS)

	t LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
mg/kg	mg/kg	%	%		
0.125	0.120	96.0	70.0-123		
zene 0.125	0.119	95.2	74.0-126		
0.125	0.113	90.4	75.0-121		
Total 0.375	0.356	94.9	72.0-127		
iene-d8		103	75.0-131		
romofluorobenzene		105	67.0-138		





















119

70.0-130

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QUALITY CONTROL SUMMARY

ONE LAB. NAT Page 66 of \$15

Semi-Volatile Organic Compounds (GC) by Method 8015

L1241838-01,02,03,04,05,06,07,08,09,10,11,12

Method Blank (MB)

(MB) R3553436-1 07/26	(MB) R3553436-1 07/26/20 09:43							
	MB Result	MB Qualifier	MB MDL	MB RDL				
Analyte	mg/kg		mg/kg	mg/kg				
C10-C28 Diesel Range	U		1.61	4.00				
C28-C40 Oil Range	U		0.274	4.00				
(S) o-Terphenyl	73.9			18.0-148				





Laboratory Control Sample (LCS)

(LCS) R3553436-2 07/2	6/20 09:56				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	38.9	77.8	50.0-150	
(S) o-Terphenyl			77.6	18.0-148	





L1243416-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

- /	CO 1 12 12 11C C 1	07/20/20 12:11 /	(NAC) DOEEOOOO 1	07/28/20 12:24 • (N	MCD) DOEEOOOO	07/20/20 12:27
- (1	1511 1/43410-04	-U///8//U I/:II • II	1VI >1 R 3 2 2 3 4 7 8 - 1	- U///8//U I/ /4 • IN	いうしり ドイカカイタ/ガーノ	U///8//U 1/:3/
١.	00, 212 10 110 0 1	07/20/20 12.11 (1	(1410) 110000010 1	07/20/20 12.2 1 (11	1100 1100000 10 2	07720720 12.07

(00) 212 10 110 01 01/20/20 12.11 (1110) 110000010 1 01/20/20 12.21 (1110) 110000010 2 01/20/20 12.01												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	48.9	8.98	59.3	41.1	103	66.6	2	50.0-150		<u>J3</u>	36.3	20
(S) o-Terphenyl					112	49.4		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

Appreviations and	a 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.

Qual	lifior	\Box	escri)	ntion
Qual	illei	ᆫ	VE2CII	Puon

В	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.



















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
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky ^{1 6}	90010
Kentucky ²	16
Louisiana	Al30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee 1 4	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

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

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

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

Our Locations

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



















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Page 70 of 145

Analysis Request	of Chain of Custody Record			20		, s							6	12	41	8	78	•				Pa	ige :	_2	0	of 2	-
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-11	BH-6 (2-3')	7/14/2020	1300		Х			Х		1	N	Х	Х							27	-		Х				
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Received By: DECARSO GOODE		
Signature: Decay 186		
Receipt Check List NP	Yes	No
COC Seal Present / Intact?		
COC Signed / Accurate?		
Bottles arrive intact?		
Correct bottles used?	1	
Sufficient volume sent?		
If Applicable		
VOA Zero headspace?		
Preservation Correct / Checked?		



ANALYTICAL REPORT

August 31, 2020

ConocoPhillips - Tetra Tech

L1253291 Sample Delivery Group:

Samples Received: 08/21/2020

Project Number: 212C-MD-02200

Description: Warren Transfer Unit Release

Report To: Christian Llull

901 West Wall

Suite 100

Midland, TX 79701

Enica Mc Neese Entire Report Reviewed By:

> Erica McNeese Project Manager

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















Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	8
Sr: Sample Results	9
BH-1 (0-1) L1253291-01	9
BH-1 (2-3) L1253291-02	10
BH-1 (4-5) L1253291-03	11
BH-4 (0-1) L1253291-04	12
BH-4 (2-3) L1253291-05	13
BH-4 (4-5) L1253291-06	14
AH-1 (0-1) L1253291-07	15
AH-1 (2-3) L1253291-08	16
AH-1 (4-5) L1253291-09	17
AH-2 (0-1) L1253291-10	18
AH-2 (2-3) L1253291-11	19
AH-2 (4-5) L1253291-12	20
AH-3 (0-1) L1253291-13	21
AH-3 (2-3) L1253291-14	22
AH-3 (4-5) L1253291-15	23
AH-4 (0-1) L1253291-16	24
AH-4 (2-3) L1253291-17	25
AH-4 (4-5) L1253291-18	26
AH-5 (0-1) L1253291-19	27
AH-6 (0-1) L1253291-20	28
AH-7 (0-1) L1253291-21	29
BH-7 (0-1) L1253291-22	30
BH-8 (0-1) L1253291-23	31
Qc: Quality Control Summary	32
Total Solids by Method 2540 G-2011	32
Wet Chemistry by Method 300.0	35
Volatile Organic Compounds (GC) by Method 8015D/GRO	37
Volatile Organic Compounds (GC/MS) by Method 8260B	39
Semi-Volatile Organic Compounds (GC) by Method 8015	41
GI: Glossary of Terms	44
Al: Accreditations & Locations	45

















Sc: Sample Chain of Custody

46

DLL4 (0.4) 142F2204 04 Calid			Collected by Adrian	Collected date/time 08/19/20 08:00	08/21/20 09	
BH-1 (0-1) L1253291-01 Solid	D	D				
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1532745	1	08/26/20 19:38	08/26/20 20:17	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1532743 WG1531557	1	08/26/20 09:13	08/26/20 12:45	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/27/20 20:59	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1533636 WG1532645	1	08/26/20 10:13	08/26/20 12:25	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1532731	1	08/27/20 12:58	08/27/20 18:20	JN	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BH-1 (2-3) L1253291-02 Solid			Adrian	08/19/20 08:10	08/21/20 09	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1532745	1	08/26/20 19:38	08/26/20 20:17	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 12:54	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/27/20 21:22	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1532645	1	08/26/20 10:13	08/26/20 15:16	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1532731	1	08/27/20 12:58	08/28/20 07:59	JDG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BH-1 (4-5) L1253291-03 Solid			Adrian	08/19/20 08:20	08/21/20 09	:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1532745	1	08/26/20 19:38	08/26/20 20:17	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1532745 WG1531556	1	08/26/20 09:59	08/26/20 18:12	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1531556 WG1533658	1	08/26/20 10:13	08/27/20 21:45	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1533636 WG1532645	1	08/26/20 10:13	08/26/20 15:35	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1532731	1	08/27/20 12:58	08/27/20 16:52	JN	Mt. Juliet, TN
			Collected by	Collected date/time	Paraivad da	te/time
BH-4 (0-1) L1253291-04 Solid			Adrian	08/19/20 08:30	08/21/20 09	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1532745	1	08/26/20 19:38	08/26/20 20:17	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1531556	1	08/26/20 09:59	08/26/20 18:21	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/27/20 22:07	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1532645	1	08/26/20 10:13	08/26/20 15:54	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1532731	1	08/27/20 12:58	08/27/20 18:06	JN	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BH-4 (2-3) L1253291-05 Solid			Adrian	08/19/20 08:40	08/21/20 09	:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1532745	1	08/26/20 19:38	08/26/20 20:17	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1531556	1	08/26/20 09:59	08/26/20 18:30	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/27/20 22:29	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1532645	1	08/26/20 10:13	08/26/20 16:12	JHH	Mt. Juliet, TN
Carri Malatila Organia Carranavada (CC) ku Matha d CC/5	WC4E2274		00/27/20 12:50	00/27/20 40:20	INI	Ma Indian Thi



















Semi-Volatile Organic Compounds (GC) by Method 8015

WG1532731

1

08/27/20 12:58

08/27/20 18:38

JN

Mt. Juliet, TN



3H-4 (4-5) L1253291-06 Solid			Collected by Adrian	Collected date/time 08/19/20 08:50	Received date 08/21/20 09:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
ME LI TOU	Datcii	Dilution	date/time	date/time	AllalySt	LUCALION
otal Solids by Method 2540 G-2011	WG1532745	1	08/26/20 19:38	08/26/20 20:17	KBC	Mt. Juliet, TI
Vet Chemistry by Method 300.0	WG1531556	1	08/26/20 09:59	08/26/20 18:40	MSP	Mt. Juliet, T
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/27/20 22:52	BMB	Mt. Juliet, T
olatile Organic Compounds (GC/MS) by Method 8260B	WG1532645	1	08/26/20 10:13	08/26/20 16:31	JHH	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1532731	1	08/27/20 12:58	08/27/20 18:52	JN	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
AH-1 (0-1) L1253291-07 Solid			Adrian	08/19/20 09:00	08/21/20 09:	30
ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1532747	1	08/27/20 12:37	08/27/20 12:47	KBC	Mt. Juliet, T
et Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 13:13	MSP	Mt. Juliet, T
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/27/20 23:15	BMB	Mt. Juliet, T
olatile Organic Compounds (GC/MS) by Method 8260B	WG1532645	1	08/26/20 10:13	08/26/20 16:50	JHH	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1532731	1	08/27/20 12:58	08/27/20 19:06	JN	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
.H-1 (2-3) L1253291-08 Solid			Adrian	08/19/20 09:10	08/21/20 09:	30
ethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1532747	1	08/27/20 12:37	08/27/20 12:47	KBC	Mt. Juliet, T
et Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 13:23	MSP	Mt. Juliet, T
platile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/27/20 23:37	BMB	Mt. Juliet, T
platile Organic Compounds (GC/MS) by Method 8260B	WG1532645	1	08/26/20 10:13	08/26/20 17:09	JHH	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1532731	1	08/27/20 12:58	08/27/20 17:20	JN	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
AH-1 (4-5) L1253291-09 Solid			Adrian	08/19/20 09:20	08/21/20 09:	30
lethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1532747	1	08/27/20 12:37	08/27/20 12:47	KBC	Mt. Juliet, T
et Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 13:32	MSP	Mt. Juliet, T
platile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/27/20 23:59	BMB	Mt. Juliet, T
olatile Organic Compounds (GC/MS) by Method 8260B	WG1532645	1	08/26/20 10:13	08/26/20 17:28	JHH	Mt. Juliet, T
emi-Volatile Organic Compounds (GC) by Method 8015	WG1532731	1	08/27/20 12:58	08/27/20 17:06	JN	Mt. Juliet, T
			Collected by	Collected date/time	Received da	te/time
			Adrian	08/19/20 09:30	08/21/20 09:	30
AH-2 (0-1) L1253291-10 Solid		Dilution	Preparation	Analysis	Analyst	Location
. ,	Batch		al a t a /t i a a -	datakina -		
ethod		1	date/time 08/27/20 12:37	08/27/20 12:47	KBC	Mt Iuliot T
petal Solids by Method 2540 G-2011	WG1532747	1	08/27/20 12:37	08/27/20 12:47	KBC	
otal Solids by Method 2540 G-2011 let Chemistry by Method 300.0	WG1532747 WG1531557	1	08/27/20 12:37 08/26/20 09:13	08/27/20 12:47 08/26/20 13:42	MSP	Mt. Juliet, T
AH-2 (0-1) L1253291-10 Solid Method Total Solids by Method 2540 G-2011 Wet Chemistry by Method 300.0 Yolatile Organic Compounds (GC) by Method 8015D/GRO Yolatile Organic Compounds (GC/MS) by Method 8260B	WG1532747		08/27/20 12:37	08/27/20 12:47		Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T Mt. Juliet, T



















	07 (IVII 22 (J U 11111	,,, ,, ,			
AH-2 (2-3) L1253291-11 Solid			Collected by Adrian	Collected date/time 08/19/20 09:40	Received da 08/21/20 09	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time	- ,	
Total Solids by Method 2540 G-2011	WG1532747	1	08/27/20 12:37	08/27/20 12:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 13:51	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/28/20 00:44	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1532645	1	08/26/20 10:13	08/26/20 18:06	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1533025	1	08/26/20 21:42	08/27/20 13:07	TJD	Mt. Juliet, TN
			Collected by	Collected date/time		
AH-2 (4-5) L1253291-12 Solid			Adrian	08/19/20 09:50	08/21/20 09	:30
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1532747	1	08/27/20 12:37	08/27/20 12:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 14:20	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/28/20 01:07	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1532645	1	08/26/20 10:13	08/26/20 18:25	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1533025	1	08/26/20 21:42	08/27/20 13:20	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-3 (0-1) L1253291-13 Solid			Adrian	08/19/20 10:00	08/21/20 09	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Total Solids by Method 2540 G-2011	WG1532747	1	date/time 08/27/20 12:37	date/time 08/27/20 12:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 14:48	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/28/20 01:29	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1533036	1	08/26/20 10:13	08/26/20 23:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1533025	1	08/26/20 21:42	08/27/20 13:33	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-3 (2-3) L1253291-14 Solid			Adrian	08/19/20 10:10	08/21/20 09	:30
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1532747	1	08/27/20 12:37	08/27/20 12:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 14:58	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/28/20 01:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1533076	1	08/26/20 10:13	08/27/20 00:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1533025	1	08/26/20 21:42	08/27/20 13:47	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-3 (4-5) L1253291-15 Solid			Adrian	08/19/20 10:20	08/21/20 09	:30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1532747	1	08/27/20 12:37	08/27/20 12:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 15:08	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/28/20 02:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1533036	1	08/26/20 10:13	08/27/20 00:19	DWR	Mt. Juliet, TN
Country and Companies (Companies) by method 02005	***************************************		00/20/20 10.10	00/2//20 00.13	D 1711	me. Junet, TN



















Semi-Volatile Organic Compounds (GC) by Method 8015

WG1533025

08/26/20 21:42

08/27/20 14:00

TJD

Mt. Juliet, TN



AH-4 (0-1) L1253291-16 Solid			Collected by Adrian	Collected date/time 08/19/20 10:30	Received date 08/21/20 09:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Fotal Solids by Method 2540 G-2011	WG1532747	1	08/27/20 12:37	08/27/20 12:47	KBC	Mt. Juliet, TN
Vet Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 15:17	MSP	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/28/20 02:37	BMB	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1533076	1	08/26/20 10:13	08/27/20 00:37	DWR	Mt. Juliet, Th
emi-Volatile Organic Compounds (GC) by Method 8015	WG1533025	1	08/26/20 21:42	08/27/20 14:13	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
AH-4 (2-3) L1253291-17 Solid			Adrian	08/19/20 10:40	08/21/20 09:	30
1ethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1532749	1	08/27/20 12:19	08/27/20 12:34	KBC	Mt. Juliet, TN
et Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 15:26	MSP	Mt. Juliet, TN
platile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/28/20 02:59	BMB	Mt. Juliet, TN
olatile Organic Compounds (GC/MS) by Method 8260B	WG1533076	1	08/26/20 10:13	08/27/20 00:56	DWR	Mt. Juliet, TI
emi-Volatile Organic Compounds (GC) by Method 8015	WG1533025	1	08/26/20 21:42	08/27/20 14:26	TJD	Mt. Juliet, TI
AH-4 (4-5) L1253291-18 Solid			Collected by Adrian	Collected date/time 08/19/20 10:50	Received da: 08/21/20 09:	
lethod	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
otal Solids by Method 2540 G-2011	WG1532749	1	08/27/20 12:19	08/27/20 12:34	KBC	Mt. Juliet, Ti
et Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 15:36	MSP	Mt. Juliet, Ti
platile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/28/20 03:22	BMB	Mt. Juliet, Ti
olatile Organic Compounds (GC/MS) by Method 8260B	WG1533076	1	08/26/20 10:13	08/27/20 01:15	DWR	Mt. Juliet, Ti
emi-Volatile Organic Compounds (GC) by Method 8015	WG1533025	1	08/26/20 21:42	08/27/20 14:39	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
AH-5 (0-1) L1253291-19 Solid			Adrian	08/19/20 11:00	08/21/20 09:	:30
lethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
otal Solids by Method 2540 G-2011	WG1532749	1	08/27/20 12:19	08/27/20 12:34	KBC	Mt. Juliet, TN
et Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 16:14	MSP	Mt. Juliet, TN
olatile Organic Compounds (GC) by Method 8015D/GRO	WG1533658	1	08/26/20 10:13	08/28/20 03:44	BMB	Mt. Juliet, TI
platile Organic Compounds (GC/MS) by Method 8260B	WG1533076	1	08/26/20 10:13	08/27/20 01:34	DWR	Mt. Juliet, Ti
emi-Volatile Organic Compounds (GC) by Method 8015	WG1533025	1	08/26/20 21:42	08/27/20 14:52	TJD	Mt. Juliet, TI
			Collected by	Collected date/time	Received da	te/time
AH-6 (0-1) L1253291-20 Solid			Adrian	08/19/20 11:30	08/21/20 09:	30
ethod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
etilou					KBC	Mt. Juliet, Ti
	WG1532749	1	08/2//2017:19	08/2///0 12:34	VD(:	
otal Solids by Method 2540 G-2011	WG1532749 WG1531557	1 1	08/27/20 12:19 08/26/20 09:13	08/27/20 12:34 08/26/20 16:23		
otal Solids by Method 2540 G-2011 let Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 16:23	MSP	Mt. Juliet, Ti
otal Solids by Method 2540 G-2011 /et Chemistry by Method 300.0 olatile Organic Compounds (GC) by Method 8015D/GRO olatile Organic Compounds (GC/MS) by Method 8260B						Mt. Juliet, TN Mt. Juliet, TN Mt. Juliet, TN



















Semi-Volatile Organic Compounds (GC) by Method 8015

SAMPLE SUMMARY



			Collected by	Collected date/time	Received da	te/time
AH-7 (0-1) L1253291-21 Solid			Adrian	08/19/20 11:40	08/21/20 09:	:30
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1532749	1	08/27/20 12:19	08/27/20 12:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 16:32	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533805	1	08/26/20 10:13	08/28/20 06:07	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1533076	1	08/26/20 10:13	08/27/20 02:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1533025	1	08/26/20 21:42	08/27/20 15:47	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BH-7 (0-1) L1253291-22 Solid			Adrian	08/19/20 11:50	08/21/20 09:	30
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1532749	1	08/27/20 12:19	08/27/20 12:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 16:42	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533805	1	08/26/20 10:13	08/28/20 06:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1533076	1	08/26/20 10:13	08/27/20 02:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1533025	10	08/26/20 21:42	08/27/20 17:04	TJD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
BH-8 (0-1) L1253291-23 Solid			Adrian	08/19/20 12:00	08/21/20 09:	30
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1532749	1	08/27/20 12:19	08/27/20 12:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1531557	1	08/26/20 09:13	08/26/20 16:51	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1533805	1	08/26/20 10:13	08/28/20 06:48	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1533076	1	08/26/20 10:13	08/27/20 02:50	DWR	Mt. Juliet, TN

WG1533575

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08/27/20 23:56

08/30/20 10:51

JN

Mt. Juliet, TN



















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

Enica Mc Neese

Erica McNeese Project Manager

















ONE LAB. NATRAGE 80 of 145

Collected date/time: 08/19/20 08:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	99.6		1	08/26/2020 20:17	<u>WG1532745</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.23	20.1	1	08/26/2020 12:45	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	08/27/2020 20:59	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.2			77.0-120		08/27/2020 20:59	WG1533658



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

		(= =,)	,				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000470	0.00101	1	08/26/2020 12:25	WG1532645
Toluene	U		0.00131	0.00504	1	08/26/2020 12:25	WG1532645
Ethylbenzene	U		0.000742	0.00252	1	08/26/2020 12:25	WG1532645
Total Xylenes	U		0.000886	0.00655	1	08/26/2020 12:25	WG1532645
(S) Toluene-d8	102			75.0-131		08/26/2020 12:25	WG1532645
(S) 4-Bromofluorobenzene	99.6			67.0-138		08/26/2020 12:25	WG1532645
(S) 1,2-Dichloroethane-d4	107			70.0-130		08/26/2020 12:25	WG1532645

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.83	<u>J</u>	1.62	4.01	1	08/27/2020 18:20	WG1532731
C28-C40 Oil Range	21.8		0.275	4.01	1	08/27/2020 18:20	WG1532731
(S) o-Terphenyl	78.0			18.0-148		08/27/2020 18:20	WG1532731

ONE LAB. NAT Page 81 of 15

Collected date/time: 08/19/20 08:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	99.2		1	08/26/2020 20:17	WG1532745



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	14.4	<u>J</u>	9.28	20.2	1	08/26/2020 12:54	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	08/27/2020 21:22	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120		08/27/2020 21:22	WG1533658



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000475	0.00102	1	08/26/2020 15:16	WG1532645
Toluene	U		0.00132	0.00508	1	08/26/2020 15:16	WG1532645
Ethylbenzene	U		0.000749	0.00254	1	08/26/2020 15:16	WG1532645
Total Xylenes	U		0.000895	0.00661	1	08/26/2020 15:16	WG1532645
(S) Toluene-d8	103			<i>75.0-131</i>		08/26/2020 15:16	WG1532645
(S) 4-Bromofluorobenzene	97.9			67.0-138		08/26/2020 15:16	WG1532645
(S) 1,2-Dichloroethane-d4	81.6			70.0-130		08/26/2020 15:16	WG1532645



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.62	4.03	1	08/28/2020 07:59	WG1532731
C28-C40 Oil Range	3.56	<u>J</u>	0.276	4.03	1	08/28/2020 07:59	WG1532731
(S) o-Terphenyl	77.2			18.0-148		08/28/2020 07:59	WG1532731

ONE LAB. NAT Page 82 of 145

Collected date/time: 08/19/20 08:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	98.1		1	08/26/2020 20:17	WG1532745



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.38	20.4	1	08/26/2020 18:12	WG1531556



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	08/27/2020 21:45	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.5			77.0-120		08/27/2020 21:45	WG1533658



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000485	0.00104	1	08/26/2020 15:35	WG1532645
Toluene	U		0.00135	0.00519	1	08/26/2020 15:35	WG1532645
Ethylbenzene	U		0.000765	0.00260	1	08/26/2020 15:35	WG1532645
Total Xylenes	U		0.000914	0.00675	1	08/26/2020 15:35	WG1532645
(S) Toluene-d8	105			<i>75.0-131</i>		08/26/2020 15:35	WG1532645
(S) 4-Bromofluorobenzene	96.3			67.0-138		08/26/2020 15:35	WG1532645
(S) 1,2-Dichloroethane-d4	77.4			70.0-130		08/26/2020 15:35	WG1532645



Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.08	1	08/27/2020 16:52	WG1532731
C28-C40 Oil Range	0.340	<u>J</u>	0.279	4.08	1	08/27/2020 16:52	WG1532731
(S) o-Terphenyl	73.2			18.0-148		08/27/2020 16:52	WG1532731

11 of 49

ONE LAB. NAT Page 33 of 145

Collected date/time: 08/19/20 08:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	99.3		1	08/26/2020 20:17	WG1532745



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.26	20.1	1	08/26/2020 18:21	WG1531556



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0218	0.101	1	08/27/2020 22:07	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120		08/27/2020 22:07	WG1533658



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000473	0.00101	1	08/26/2020 15:54	WG1532645
Toluene	U		0.00132	0.00507	1	08/26/2020 15:54	WG1532645
Ethylbenzene	0.000836	<u>J</u>	0.000747	0.00253	1	08/26/2020 15:54	WG1532645
Total Xylenes	U		0.000892	0.00659	1	08/26/2020 15:54	WG1532645
(S) Toluene-d8	105			75.0-131		08/26/2020 15:54	WG1532645
(S) 4-Bromofluorobenzene	97.1			67.0-138		08/26/2020 15:54	WG1532645
(S) 1,2-Dichloroethane-d4	81.4			70.0-130		08/26/2020 15:54	WG1532645



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.62	4.03	1	08/27/2020 18:06	WG1532731
C28-C40 Oil Range	5.06		0.276	4.03	1	08/27/2020 18:06	WG1532731
(S) o-Terphenyl	73.1			18.0-148		08/27/2020 18:06	WG1532731

ONE LAB. NATRAGE 84 of 145

Collected date/time: 08/19/20 08:40

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	99.7		1	08/26/2020 20:17	WG1532745



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.23	20.1	1	08/26/2020 18:30	WG1531556



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	08/27/2020 22:29	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	95.6			77.0-120		08/27/2020 22:29	WG1533658



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

	- 1	, ,	,				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000470	0.00101	1	08/26/2020 16:12	WG1532645
Toluene	0.00154	<u>J</u>	0.00131	0.00503	1	08/26/2020 16:12	WG1532645
Ethylbenzene	U		0.000741	0.00252	1	08/26/2020 16:12	WG1532645
Total Xylenes	U		0.000885	0.00654	1	08/26/2020 16:12	WG1532645
(S) Toluene-d8	103			<i>75.0-131</i>		08/26/2020 16:12	WG1532645
(S) 4-Bromofluorobenzene	95.8			67.0-138		08/26/2020 16:12	WG1532645
(S) 1,2-Dichloroethane-d4	80.4			70.0-130		08/26/2020 16:12	WG1532645

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.17		1.61	4.01	1	08/27/2020 18:38	WG1532731
C28-C40 Oil Range	10.8		0.275	4.01	1	08/27/2020 18:38	WG1532731
(S) o-Terphenyl	80.9			18.0-148		08/27/2020 18:38	WG1532731

Collected date/time: 08/19/20 08:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	99.2		1	08/26/2020 20:17	WG1532745



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	44.7		9.27	20.2	1	08/26/2020 18:40	WG1531556



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	08/27/2020 22:52	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		08/27/2020 22:52	WG1533658



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

	, ,	, , ,	<u>'</u>				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000474	0.00102	1	08/26/2020 16:31	WG1532645
Toluene	U		0.00132	0.00508	1	08/26/2020 16:31	WG1532645
Ethylbenzene	U		0.000748	0.00254	1	08/26/2020 16:31	WG1532645
Total Xylenes	0.00109	<u>J</u>	0.000894	0.00660	1	08/26/2020 16:31	WG1532645
(S) Toluene-d8	105			75.0-131		08/26/2020 16:31	WG1532645
(S) 4-Bromofluorobenzene	93.6			67.0-138		08/26/2020 16:31	WG1532645
(S) 1,2-Dichloroethane-d4	79.1			70.0-130		08/26/2020 16:31	WG1532645



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.10	<u>J</u>	1.62	4.03	1	08/27/2020 18:52	WG1532731
C28-C40 Oil Range	9.51		0.276	4.03	1	08/27/2020 18:52	WG1532731
(S) o-Terphenyl	79.9			18.0-148		08/27/2020 18:52	WG1532731



Collected date/time: 08/19/20 09:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	99.8		1	08/27/2020 12:47	WG1532747



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.22	20.0	1	08/26/2020 13:13	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	08/27/2020 23:15	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.5			77.0-120		08/27/2020 23:15	WG1533658



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000469	0.00100	1	08/26/2020 16:50	WG1532645
Toluene	U		0.00131	0.00502	1	08/26/2020 16:50	WG1532645
Ethylbenzene	U		0.000740	0.00251	1	08/26/2020 16:50	WG1532645
Total Xylenes	U		0.000884	0.00653	1	08/26/2020 16:50	WG1532645
(S) Toluene-d8	103			<i>75.0-131</i>		08/26/2020 16:50	WG1532645
(S) 4-Bromofluorobenzene	95.9			67.0-138		08/26/2020 16:50	WG1532645
(S) 1,2-Dichloroethane-d4	79.3			70.0-130		08/26/2020 16:50	WG1532645



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.56	<u>J</u>	1.61	4.01	1	08/27/2020 19:06	WG1532731
C28-C40 Oil Range	6.35		0.275	4.01	1	08/27/2020 19:06	WG1532731
(S) o-Terphenyl	75.2			18.0-148		08/27/2020 19:06	WG1532731

ONE LAB. NATRAGE 87. of 145

Collected date/time: 08/19/20 09:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	98.5		1	08/27/2020 12:47	WG1532747



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.34	20.3	1	08/26/2020 13:23	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	08/27/2020 23:37	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120		08/27/2020 23:37	WG1533658



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000481	0.00103	1	08/26/2020 17:09	WG1532645
Toluene	U		0.00134	0.00515	1	08/26/2020 17:09	WG1532645
Ethylbenzene	U		0.000759	0.00257	1	08/26/2020 17:09	WG1532645
Total Xylenes	U		0.000906	0.00669	1	08/26/2020 17:09	WG1532645
(S) Toluene-d8	103			<i>75.0-131</i>		08/26/2020 17:09	WG1532645
(S) 4-Bromofluorobenzene	94.1			67.0-138		08/26/2020 17:09	WG1532645
(S) 1,2-Dichloroethane-d4	79.5			70.0-130		08/26/2020 17:09	WG1532645



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.63	4.06	1	08/27/2020 17:20	WG1532731
C28-C40 Oil Range	0.434	<u>J</u>	0.278	4.06	1	08/27/2020 17:20	WG1532731
(S) o-Terphenyl	77.3			18.0-148		08/27/2020 17:20	WG1532731

ONE LAB. NATRAGE 88 of 145

Collected date/time: 08/19/20 09:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	98.1		1	08/27/2020 12:47	WG1532747



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.38	20.4	1	08/26/2020 13:32	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	08/27/2020 23:59	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120		08/27/2020 23:59	WG1533658



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

	'	, , ,	'				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000486	0.00104	1	08/26/2020 17:28	WG1532645
Toluene	U		0.00135	0.00520	1	08/26/2020 17:28	WG1532645
Ethylbenzene	U		0.000766	0.00260	1	08/26/2020 17:28	WG1532645
Total Xylenes	U		0.000915	0.00676	1	08/26/2020 17:28	WG1532645
(S) Toluene-d8	106			75.0-131		08/26/2020 17:28	WG1532645
(S) 4-Bromofluorobenzene	95.0			67.0-138		08/26/2020 17:28	WG1532645
(S) 1,2-Dichloroethane-d4	85.9			70.0-130		08/26/2020 17:28	WG1532645



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.08	1	08/27/2020 17:06	WG1532731
C28-C40 Oil Range	0.360	<u>J</u>	0.279	4.08	1	08/27/2020 17:06	WG1532731
(S) o-Terphenyl	66.9			18.0-148		08/27/2020 17:06	WG1532731

ONE LAB. NAT Page 82 of 145

Collected date/time: 08/19/20 09:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	98.5		1	08/27/2020 12:47	WG1532747



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.34	20.3	1	08/26/2020 13:42	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0220	0.102	1	08/28/2020 00:22	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		08/28/2020 00:22	WG1533658



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000482	0.00103	1	08/26/2020 17:47	WG1532645
Toluene	U		0.00134	0.00516	1	08/26/2020 17:47	WG1532645
Ethylbenzene	U		0.000760	0.00258	1	08/26/2020 17:47	WG1532645
Total Xylenes	U		0.000908	0.00670	1	08/26/2020 17:47	WG1532645
(S) Toluene-d8	106			<i>75.0-131</i>		08/26/2020 17:47	WG1532645
(S) 4-Bromofluorobenzene	98.8			67.0-138		08/26/2020 17:47	WG1532645
(S) 1,2-Dichloroethane-d4	85.4			70.0-130		08/26/2020 17:47	WG1532645



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.00	J	1.64	4.06	1	08/27/2020 17:53	WG1532731
C28-C40 Oil Range	2.97	<u>J</u>	0.278	4.06	1	08/27/2020 17:53	WG1532731
(S) o-Terphenyl	78.1			18.0-148		08/27/2020 17:53	WG1532731

ONE LAB. NATRAGE 90 of 145

Collected date/time: 08/19/20 09:40

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	89.9		1	08/27/2020 12:47	WG1532747



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.2	22.2	1	08/26/2020 13:51	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0241	0.111	1	08/28/2020 00:44	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	97.1			77.0-120		08/28/2020 00:44	WG1533658



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000572	0.00122	1	08/26/2020 18:06	WG1532645
Toluene	U		0.00159	0.00612	1	08/26/2020 18:06	WG1532645
Ethylbenzene	U		0.000902	0.00306	1	08/26/2020 18:06	WG1532645
Total Xylenes	U		0.00108	0.00796	1	08/26/2020 18:06	WG1532645
(S) Toluene-d8	104			75.0-131		08/26/2020 18:06	WG1532645
(S) 4-Bromofluorobenzene	96.3			67.0-138		08/26/2020 18:06	WG1532645
(S) 1,2-Dichloroethane-d4	83.4			70.0-130		08/26/2020 18:06	WG1532645



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.79	4.45	1	08/27/2020 13:07	WG1533025
C28-C40 Oil Range	4.20	<u>J</u>	0.305	4.45	1	08/27/2020 13:07	WG1533025
(S) o-Terphenyl	74.5			18.0-148		08/27/2020 13:07	WG1533025

ONE LAB. NATRAGE 91 of 145

Collected date/time: 08/19/20 09:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	99.6		1	08/27/2020 12:47	WG1532747



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.23	20.1	1	08/26/2020 14:20	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	08/28/2020 01:07	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120		08/28/2020 01:07	WG1533658



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U	<u>J3</u>	0.000470	0.00101	1	08/26/2020 18:25	WG1532645
Toluene	U	<u>J3</u>	0.00131	0.00504	1	08/26/2020 18:25	WG1532645
Ethylbenzene	U	<u>J3</u>	0.000742	0.00252	1	08/26/2020 18:25	WG1532645
Total Xylenes	U		0.000886	0.00655	1	08/26/2020 18:25	WG1532645
(S) Toluene-d8	105			75.0-131		08/26/2020 18:25	WG1532645
(S) 4-Bromofluorobenzene	95.6			67.0-138		08/26/2020 18:25	WG1532645
(S) 1,2-Dichloroethane-d4	79.1			70.0-130		08/26/2020 18:25	WG1532645



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.62	4.01	1	08/27/2020 13:20	WG1533025
C28-C40 Oil Range	3.74	<u>J</u>	0.275	4.01	1	08/27/2020 13:20	WG1533025
(S) o-Terphenyl	77.7			18.0-148		08/27/2020 13:20	WG1533025

Collected date/time: 08/19/20 10:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	99.2		1	08/27/2020 12:47	WG1532747



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.27	20.2	1	08/26/2020 14:48	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	08/28/2020 01:29	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		08/28/2020 01:29	WG1533658



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000474	0.00102	1	08/26/2020 23:41	WG1533076
Toluene	U		0.00132	0.00508	1	08/26/2020 23:41	WG1533076
Ethylbenzene	U		0.000749	0.00254	1	08/26/2020 23:41	WG1533076
Total Xylenes	U		0.000894	0.00660	1	08/26/2020 23:41	WG1533076
(S) Toluene-d8	100			75.0-131		08/26/2020 23:41	WG1533076
(S) 4-Bromofluorobenzene	98.3			67.0-138		08/26/2020 23:41	WG1533076
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		08/26/2020 23:41	WG1533076



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.62	4.03	1	08/27/2020 13:33	WG1533025
C28-C40 Oil Range	5.02		0.276	4.03	1	08/27/2020 13:33	WG1533025
(S) o-Terphenyl	82.7			18.0-148		08/27/2020 13:33	WG1533025

ONE LAB. NATRAGE 93 of 145

Collected date/time: 08/19/20 10:10

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	81.3		1	08/27/2020 12:47	WG1532747



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		11.3	24.6	1	08/26/2020 14:58	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0267	0.123	1	08/28/2020 01:52	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		08/28/2020 01:52	WG1533658



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000682	0.00146	1	08/27/2020 00:00	WG1533076
Toluene	U		0.00190	0.00730	1	08/27/2020 00:00	WG1533076
Ethylbenzene	U		0.00108	0.00365	1	08/27/2020 00:00	WG1533076
Total Xylenes	U		0.00129	0.00949	1	08/27/2020 00:00	WG1533076
(S) Toluene-d8	103			75.0-131		08/27/2020 00:00	WG1533076
(S) 4-Bromofluorobenzene	101			67.0-138		08/27/2020 00:00	WG1533076
(S) 1,2-Dichloroethane-d4	93.8			70.0-130		08/27/2020 00:00	WG1533076

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.98	4.92	1	08/27/2020 13:47	WG1533025
C28-C40 Oil Range	0.391	<u>J</u>	0.337	4.92	1	08/27/2020 13:47	WG1533025
(S) o-Terphenyl	54.8			18.0-148		08/27/2020 13:47	WG1533025

ONE LAB. NATRAGE 94 of 145

Collected date/time: 08/19/20 10:20

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	96.3		1	08/27/2020 12:47	WG1532747



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.55	20.8	1	08/26/2020 15:08	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0225	0.104	1	08/28/2020 02:14	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.5			77.0-120		08/28/2020 02:14	WG1533658



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000503	0.00108	1	08/27/2020 00:19	WG1533076
Toluene	U		0.00140	0.00539	1	08/27/2020 00:19	WG1533076
Ethylbenzene	U		0.000794	0.00269	1	08/27/2020 00:19	WG1533076
Total Xylenes	U		0.000948	0.00700	1	08/27/2020 00:19	WG1533076
(S) Toluene-d8	105			<i>75.0-131</i>		08/27/2020 00:19	WG1533076
(S) 4-Bromofluorobenzene	94.0			67.0-138		08/27/2020 00:19	WG1533076
(S) 1,2-Dichloroethane-d4	92.2			70.0-130		08/27/2020 00:19	WG1533076

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.67	4.15	1	08/27/2020 14:00	WG1533025
C28-C40 Oil Range	0.729	<u>J</u>	0.285	4.15	1	08/27/2020 14:00	WG1533025
(S) o-Terphenyl	79.7			18.0-148		08/27/2020 14:00	WG1533025

Collected date/time: 08/19/20 10:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	99.1		1	08/27/2020 12:47	<u>WG1532747</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.29	20.2	1	08/26/2020 15:17	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	08/28/2020 02:37	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120		08/28/2020 02:37	WG1533658



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

•		· · ·	•				
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000476	0.00102	1	08/27/2020 00:37	WG1533076
Toluene	U		0.00132	0.00509	1	08/27/2020 00:37	WG1533076
Ethylbenzene	U		0.000751	0.00255	1	08/27/2020 00:37	WG1533076
Total Xylenes	U		0.000896	0.00662	1	08/27/2020 00:37	WG1533076
(S) Toluene-d8	104			75.0-131		08/27/2020 00:37	WG1533076
(S) 4-Bromofluorobenzene	95.1			67.0-138		08/27/2020 00:37	WG1533076
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		08/27/2020 00:37	WG1533076



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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	11.2		1.62	4.04	1	08/27/2020 14:13	WG1533025
C28-C40 Oil Range	24.3		0.277	4.04	1	08/27/2020 14:13	WG1533025
(S) o-Terphenyl	82.9			18.0-148		08/27/2020 14:13	WG1533025

ONE LAB. NAT Page 96 of 145

Collected date/time: 08/19/20 10:40

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	98.9		1	08/27/2020 12:34	<u>WG1532749</u>



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.30	20.2	1	08/26/2020 15:26	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	08/28/2020 02:59	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	96.5			77.0-120		08/28/2020 02:59	WG1533658



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

•		•					
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000478	0.00102	1	08/27/2020 00:56	WG1533076
Toluene	U		0.00133	0.00511	1	08/27/2020 00:56	WG1533076
Ethylbenzene	U		0.000754	0.00256	1	08/27/2020 00:56	WG1533076
Total Xylenes	U		0.000900	0.00665	1	08/27/2020 00:56	WG1533076
(S) Toluene-d8	105			75.0-131		08/27/2020 00:56	WG1533076
(S) 4-Bromofluorobenzene	93.7			67.0-138		08/27/2020 00:56	WG1533076
(S) 1,2-Dichloroethane-d4	89.1			70.0-130		08/27/2020 00:56	WG1533076



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.25	<u>J</u>	1.63	4.05	1	08/27/2020 14:26	WG1533025
C28-C40 Oil Range	6.39		0.277	4.05	1	08/27/2020 14:26	WG1533025
(S) o-Terphenyl	86.2			18.0-148		08/27/2020 14:26	WG1533025

ONE LAB. NATRAGE 97. of 145

Collected date/time: 08/19/20 10:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	95.6		1	08/27/2020 12:34	WG1532749



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.62	20.9	1	08/26/2020 15:36	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1	08/28/2020 03:22	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	97.2			77.0-120		08/28/2020 03:22	WG1533658



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

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000510	0.00109	1	08/27/2020 01:15	WG1533076
Toluene	U		0.00142	0.00546	1	08/27/2020 01:15	WG1533076
Ethylbenzene	U		0.000805	0.00273	1	08/27/2020 01:15	WG1533076
Total Xylenes	U		0.000961	0.00710	1	08/27/2020 01:15	WG1533076
(S) Toluene-d8	109			75.0-131		08/27/2020 01:15	WG1533076
(S) 4-Bromofluorobenzene	94.0			67.0-138		08/27/2020 01:15	WG1533076
(S) 1,2-Dichloroethane-d4	91.4			70.0-130		08/27/2020 01:15	WG1533076

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.05	<u>J</u>	1.68	4.18	1	08/27/2020 14:39	WG1533025
C28-C40 Oil Range	4.77		0.287	4.18	1	08/27/2020 14:39	WG1533025
(S) o-Terphenyl	85.0			18.0-148		08/27/2020 14:39	WG1533025

ONE LAB. NAT Page 98 of 145

Collected date/time: 08/19/20 11:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	92.7		1	08/27/2020 12:34	WG1532749



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.93	21.6	1	08/26/2020 16:14	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	08/28/2020 03:44	WG1533658
(S) a,a,a-Trifluorotoluene(FID)	97.5			77.0-120		08/28/2020 03:44	WG1533658



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000541	0.00116	1	08/27/2020 01:34	WG1533076
Toluene	U		0.00151	0.00579	1	08/27/2020 01:34	WG1533076
Ethylbenzene	U		0.000854	0.00290	1	08/27/2020 01:34	WG1533076
Total Xylenes	U		0.00102	0.00753	1	08/27/2020 01:34	WG1533076
(S) Toluene-d8	102			75.0-131		08/27/2020 01:34	WG1533076
(S) 4-Bromofluorobenzene	93.4			67.0-138		08/27/2020 01:34	WG1533076
(S) 1,2-Dichloroethane-d4	92.4			70.0-130		08/27/2020 01:34	WG1533076

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.71		1.74	4.32	1	08/27/2020 14:52	WG1533025
C28-C40 Oil Range	4.19	<u>J</u>	0.296	4.32	1	08/27/2020 14:52	WG1533025
(S) o-Terphenyl	49.4			18.0-148		08/27/2020 14:52	WG1533025

Collected date/time: 08/19/20 11:30

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	91.9		1	08/27/2020 12:34	WG1532749



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		10.0	21.8	1	08/26/2020 16:23	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0348	<u>J</u>	0.0236	0.109	1	08/28/2020 05:46	WG1533805
(S) a,a,a-Trifluorotoluene(FID)	91.3			77.0-120		08/28/2020 05:46	<u>WG1533805</u>



СQс

Gl

Cn

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000549	0.00118	1	08/27/2020 01:53	WG1533076
Toluene	U		0.00153	0.00588	1	08/27/2020 01:53	WG1533076
Ethylbenzene	U		0.000867	0.00294	1	08/27/2020 01:53	WG1533076
Total Xylenes	U		0.00103	0.00764	1	08/27/2020 01:53	WG1533076
(S) Toluene-d8	101			75.0-131		08/27/2020 01:53	WG1533076
(S) 4-Bromofluorobenzene	94.1			67.0-138		08/27/2020 01:53	WG1533076
(S) 1,2-Dichloroethane-d4	83.3			70.0-130		08/27/2020 01:53	WG1533076



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.56	<u>J</u>	1.75	4.35	1	08/27/2020 15:32	WG1533025
C28-C40 Oil Range	3.70	<u>J</u>	0.298	4.35	1	08/27/2020 15:32	WG1533025
(S) o-Terphenyl	79.7			18.0-148		08/27/2020 15:32	WG1533025

Collected date/time: 08/19/20 11:40

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	95.2		1	08/27/2020 12:34	WG1532749



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.66	21.0	1	08/26/2020 16:32	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0273	<u>J</u>	0.0228	0.105	1	08/28/2020 06:07	WG1533805
(S) a,a,a-Trifluorotoluene(FID)	91.3			77.0-120		08/28/2020 06:07	WG1533805



СQс

Gl

Cn

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

9		, ,					
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000514	0.00110	1	08/27/2020 02:12	WG1533076
Toluene	U		0.00143	0.00550	1	08/27/2020 02:12	WG1533076
Ethylbenzene	U		0.000811	0.00275	1	08/27/2020 02:12	WG1533076
Total Xylenes	U		0.000968	0.00715	1	08/27/2020 02:12	WG1533076
(S) Toluene-d8	102			75.0-131		08/27/2020 02:12	WG1533076
(S) 4-Bromofluorobenzene	94.8			67.0-138		08/27/2020 02:12	WG1533076
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		08/27/2020 02:12	WG1533076



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.27		1.69	4.20	1	08/27/2020 15:47	WG1533025
C28-C40 Oil Range	5.75		0.288	4.20	1	08/27/2020 15:47	WG1533025
(S) o-Terphenyl	48.4			18.0-148		08/27/2020 15:47	WG1533025

ONE LAB. NA Page 101 of 115

Collected date/time: 08/19/20 11:50

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	<u>Batch</u>
Analyte	%			date / time	
Total Solids	83.1		1	08/27/2020 12:34	WG1532749



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		11.1	24.1	1	08/26/2020 16:42	WG1531557



Cn

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0308	<u>J</u>	0.0261	0.120	1	08/28/2020 06:27	WG1533805
(S) a,a,a-Trifluorotoluene(FID)	92.2			77.0-120		08/28/2020 06:27	WG1533805



СQс

Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000657	0.00141	1	08/27/2020 02:31	WG1533076
Toluene	U		0.00183	0.00704	1	08/27/2020 02:31	WG1533076
Ethylbenzene	U		0.00104	0.00352	1	08/27/2020 02:31	WG1533076
Total Xylenes	U		0.00124	0.00915	1	08/27/2020 02:31	WG1533076
(S) Toluene-d8	102			75.0-131		08/27/2020 02:31	WG1533076
(S) 4-Bromofluorobenzene	95.6			67.0-138		08/27/2020 02:31	WG1533076
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		08/27/2020 02:31	WG1533076

Sc

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	75.9		19.4	48.1	10	08/27/2020 17:04	WG1533025
C28-C40 Oil Range	212		3.30	48.1	10	08/27/2020 17:04	WG1533025
(S) o-Terphenyl	48.6			18.0-148		08/27/2020 17:04	WG1533025

Collected date/time: 08/19/20 12:00

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch
Analyte	%			date / time	
Total Solids	96.7		1	08/27/2020 12:34	WG1532749



Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.52	20.7	1	08/26/2020 16:51	WG1531557



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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0312	<u>J</u>	0.0225	0.103	1	08/28/2020 06:48	WG1533805
(S) a,a,a-Trifluorotoluene(FID)	91.5			77.0-120		08/28/2020 06:48	WG1533805



СQс

Gl

Cn

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000499	0.00107	1	08/27/2020 02:50	WG1533076
Toluene	U		0.00139	0.00535	1	08/27/2020 02:50	WG1533076
Ethylbenzene	U		0.000788	0.00267	1	08/27/2020 02:50	WG1533076
Total Xylenes	U		0.000941	0.00695	1	08/27/2020 02:50	WG1533076
(S) Toluene-d8	103			<i>75.0-131</i>		08/27/2020 02:50	WG1533076
(S) 4-Bromofluorobenzene	93.9			67.0-138		08/27/2020 02:50	WG1533076
(S) 1,2-Dichloroethane-d4	93.6			70.0-130		08/27/2020 02:50	WG1533076



	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	294		83.3	207	50	08/30/2020 10:51	WG1533575
C28-C40 Oil Range	844		14.2	207	50	08/30/2020 10:51	WG1533575
(S) o-Terphenyl	70.8	J7		18.0-148		08/30/2020 10:51	WG1533575

ONE LAB. NAPagev103 of 15

Total Solids by Method 2540 G-2011

L1253291-01,02,03,04,05,06

Method Blank (MB)

(MB) R3564311-1	08/26/20 20:17			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

Ss

L1253291-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1253291-02	08/26/20 20:17	7 • (DUP) R3564311-3	08/26/20 20:17

	Original Result DUP Resu	t Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
te	% %		%		%
al Solids	99.2 99.1	1	0.110		10

[†]Cn



(LCS) R3564311-2	08/26/20 20:17
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(LCS) R3564311-2 08/26/2	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	





ONE LAB. NAPagev104 of \$15

Total Solids by Method 2540 G-2011

L1253291-07,08,09,10,11,12,13,14,15,16

Method Blank (MB)

(MB) R3564732-1 08/2	7/20 12:47			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1253291-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1253291-11 08/2//2	JS) L1253291-11 08/2//2012:4/ • (DUP) R3564/32-3 08/2//2012:4/					
	Original Result	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	89.9	90.3	1	0.407		10

(LCS) R3564732-2 08/27/20 12:47						
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	%	%	%	%		
Total Solids	50.0	50.0	100	85.0-115		

ONE LAB. NA Page 195 of 15

Total Solids by Method 2540 G-2011

L1253291-17,18,19,20,21,22,23

Method Blank (MB)

(MB) R3564726-1 0	08/27/20 12:34			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

Ss

[†]Cn

L1253291-22 Original Sample (OS) • Duplicate (DUP)

(OC) 112F2201 22	00/27/20 12:24	(DLID) DOEC 470C 0	00/27/20 12:21
105111253291-22	U8/2//2U 12:34 •	(DUP) R3564726-3	U8/27/2U 12:34

	Original Resi	ult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	83.1	85.3	1	2.56		10

(LCS) R3564726-2	08/27/20	12:34
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(LC3) K3304720-2 06/27	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	





ONE LAB. NA Page 106 of 115

Wet Chemistry by Method 300.0

L1253291-03,04,05,06

Method Blank (MB)

(MB) R3564305-1 08/26	5/20 17:38			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0





L1253373-01 Original Sample (OS) • Duplicate (DUP)

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





L1253439-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1253439-04 08/26/2	20 20:35 • (DU	P) R3564305-6	08/26/2	0 20:44		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	21.0	21.2	1	0.943	<u>J</u>	20





Laboratory Control Sample (LCS)

(LCS) R3564305-2	08/26/20 17:48
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	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	204	102	90.0-110	

L1253374-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

<u> </u>	1 00/20/20 10.10	/M(C) DOEC 400E 4	08/26/20 19:44 • (MSE	V DOEC 40AE E	00/20/20 10.51

(O3) L1233374=O1 O6/.	20/20 13.10 • (1013)	K3304303-4 0	10/20/20 15.4	+ • (INIOD) KOOO	4303-3 00/20	3/20 13.34							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Chloride	500	U	500	501	100	100	1	80.0-120			0.220	20	

ONE LAB. NAPagev107 of 115

Wet Chemistry by Method 300.0

L1253291-01,02,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23

Method Blank (MB)

(MB) R3564304-1 (08/26/20 12:16			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0







L1253291-02 Original Sample (OS) • Duplicate (DUP)

(OS) L12532	91-02 08/26/20 12:	54 • (DUP)	R3564304-3	08/26/20) 13:04		
	Origi (dry)		DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/k	(g	mg/kg		%		%
Chloride	14.4		13.9	1	3.51	J	20







(OS) L1253291-18 08/26/20 15:36 • (DUP) R3564304-6 08/26/20 15:45

(03) [1233291-10 00/20/2	Original Result (dry)		Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	U	U	1	0.000		20





Laboratory Control Sample (LCS)

(LCS) R3564304-2 08/26/	/20 12:26				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	206	103	90.0-110	

L1253291-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(03) [1233231-12 00/20/.	20 14.20 (1015)	113304304-4 0	0/20/20 14.23	* (IVISD) 1(330-	1307-3 00/20/	20 17.33						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	502	U	509	514	101	102	1	80.0-120			0.868	20

Reserve 15/19/2021 12:57:47 PM

QUALITY CONTROL SUMMARY

ONE LAB. NAPage 108 of 115

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

L1253291-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19

Method Blank (MB)

(MB) R3564706-2 08/27	//20 19:34				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120	



(LCS) R3564706-1 08/27/	/20 18:49				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	6.09	111	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120	











ONE LAB. NA Page 199 of 15

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

L1253291-20,21,22,23

Method Blank (MB)

(MB) R3564858-2 08/28/	/20 02:51			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	92.6			77.0-120





Laboratory Control Sample (LCS)

(LCS) R3564858-1 08/28/2										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/kg	mg/kg	%	%						
TPH (GC/FID) Low Fraction	5.50	5.07	92.2	72.0-127						
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120						







L1252874-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1252874-16 08/28/20 04:24 • (MS) R3564858-3 08/28/20 11:14 • (MSD) R3564858-4 08/28/20 11:34

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	74.5	U	75.9	73.3	102	98.4	25	10.0-151			3.48	28
(S)					109	109		77.0-120				





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ONE LAB. NA Page 110 of 115

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

L1253291-01,02,03,04,05,06,07,08,09,10,11,12

Method Blank (MB)

	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	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	100			75.0-131	
(S) 4-Bromofluorobenzene	91.9			67.0-138	
(S) 1,2-Dichloroethane-d4	91.3			70.0-130	

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

(LCS) R3564054-1 08/26/	/20 09:56 • (LC:	SD) R356405	4-2 08/26/201	0:15							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
Benzene	0.125	0.136	0.141	109	113	70.0-123			3.61	20	
Ethylbenzene	0.125	0.122	0.129	97.6	103	74.0-126			5.58	20	
Toluene	0.125	0.121	0.123	96.8	98.4	75.0-121			1.64	20	
Xylenes, Total	0.375	0.371	0.394	98.9	105	72.0-127			6.01	20	
(S) Toluene-d8				94.6	96.8	75.0-131					
(S) 4-Bromofluorobenzene				99.3	101	67.0-138					
(S) 1,2-Dichloroethane-d4				107	114	70.0-130					

L1253291-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253291-12 08/26/20 18:25 • (MS) R3564054-4 08/26/20 18:44 • (MSD) R3564054-5 08/26/20 19:03												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.126	U	0.157	0.0960	125	76.2	1	10.0-149		<u>J3</u>	48.3	37
Ethylbenzene	0.126	U	0.145	0.0899	115	71.4	1	10.0-160		<u>J3</u>	47.0	38
Toluene	0.126	U	0.148	0.0911	118	72.3	1	10.0-156		<u>J3</u>	47.7	38
Xylenes, Total	0.378	U	0.377	0.266	99.7	70.4	1	10.0-160			34.5	38
(S) Toluene-d8					103	103		75.0-131				
(S) 4-Bromofluorobenzene					94.9	95.3		67.0-138				
(S) 1,2-Dichloroethane-d4					89.1	86.9		70.0-130				

ONE LAB. NA Page 11 of 115

Volatile Organic Compounds (GC/MS) by Method 8260B <u>L1253291-13,14,15,16,17,18,19,20,21,22,23</u>

volatile Organic Compounds (GC/MS) by Method 8280

Method Blank (MB)

(MB) R3564263-3 08/26/	20 20:56			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	104			75.0-131
(S) 4-Bromofluorobenzene	95.3			67.0-138
(S) 1,2-Dichloroethane-d4	96.9			70.0-130

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

(LCS) R3564263-1 08/26/	/20 19:41 • (LCSI	D) R3564263-	-2 08/26/20 20	0:00							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
Benzene	0.125	0.134	0.129	107	103	70.0-123			3.80	20	
Ethylbenzene	0.125	0.120	0.122	96.0	97.6	74.0-126			1.65	20	
Toluene	0.125	0.122	0.122	97.6	97.6	75.0-121			0.000	20	
Xylenes, Total	0.375	0.359	0.371	95.7	98.9	72.0-127			3.29	20	
(S) Toluene-d8				101	97.4	75.0-131					
(S) 4-Bromofluorobenzene				97.2	100	67.0-138					
(S) 1,2-Dichloroethane-d4				99.8	100	70.0-130					

L1253291-23 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1253291-23 08/27/20 02:50 • (MS) R3564263-4 08/27/20 05:02 • (MSD) R3564263-5 08/27/20 05:21												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.668	U	0.738	0.733	110	110	1	10.0-149			0.581	37
Ethylbenzene	0.668	U	0.666	0.675	99.7	101	1	10.0-160			1.28	38
Toluene	0.668	U	0.677	0.688	101	103	1	10.0-156			1.57	38
Xylenes, Total	2.00	U	1.92	1.91	96.0	95.5	1	10.0-160			0.557	38
(S) Toluene-d8					96.4	98.7		75.0-131				
(S) 4-Bromofluorobenzene					91.6	91.0		67.0-138				
(S) 1,2-Dichloroethane-d4					92.6	85.9		70.0-130				











ONE LAB. NA Page 112 of 115

Semi-Volatile Organic Compounds (GC) by Method 8015 L1253291-01,02,03,04,05,06,07,08,09,10

Method Blank (MB)

(MB) R3564703-1 08/27/20 16:25

(IVID) 1330+703-1 00/27/2	20 10.25			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	76.4			18.0-148









(LCS) R3564703-2 08/2	7/20 16:38				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	38.5	77.0	50.0-150	
(S) n-Ternhenyl			106	18 0-148	









(OS) L1252874-10 08/28/20 11:16 • (MS) R3565012-1 08/28/20 11:29 • (MSD) R3565012-2 08/28/20 11:42

(03) 21232074 10 00/2	, ,	Original Result (dry)	•	•	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	58.6	24.6	56.3	91.4	54.3	114	2	50.0-150		<u>J3</u>	47.5	20
(S) o-Terphenyl					80.7	98.1		18.0-148				







Reserve 5/19/2021 12:57:47 PM

QUALITY CONTROL SUMMARY

ONE LAB. NA Page 113 of 115

Semi-Volatile Organic Compounds (GC) by Method 8015

L1253291-11,12,13,14,15,16,17,18,19,20,21,22

Method Blank (MB)

(MB) R3564267-1 08/27	7/20 03:55			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	77.0			18.0-148





Laboratory Control Sample (LCS)

(LCS) R3564267-2 08/2	27/20 04:07				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	39.1	78.2	50.0-150	
(S) o-Terphenyl			57.2	18.0-148	





L1253291-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) | 1253201 10 08/27/20 14:52 - (MS) P3564267 3 08/27/20 15:05 - (MSD) P3564267 4 08/27/20 15:19

(O3) L1233231-13 O6/21	//20 14.32 • (IVIS) I	K3304207-3 0	0/2//20 13.03	• (IVISD) KSSO-	1207-4 00/2//	20 13.13							
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
C10-C28 Diesel Range	54.9	4.71	46.3	45.4	75.7	74.4	1.02	50.0-150			1.88	20	
(S) o-Terphenyl					49.6	41.7		18.0-148					







ONE LAB. NA Page 114 of 115

Semi-Volatile Organic Compounds (GC) by Method 8015

L1253291-23

Method Blank (MB)

(MB) R3565013-1 08/28	(MB) R3565013-1 08/28/20 07:05			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	80.8			18.0-148







Laboratory Control Sample (LCS)

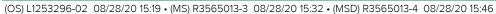
(LCS) R3565013-2 08/2	8/20 07:18				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	34.1	68.2	50.0-150	
(S) o-Terphenyl			92.8	18.0-148	











(03) [1233290-02 06/.	Spike Amount	Original Result		. ,	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
	(dry)	(dry)	ooun (u.y)	(dry)			2			mos quamo.	2	5 2	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
C10-C28 Diesel Range	57.5	U	39.0	38.2	67.9	66.5	1	50.0-150			2.14	20	
(S) o-Terphenyl					85.6	87.2		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

Appreviations and	a 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.

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.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.





















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
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky ^{1 6}	90010
Kentucky ²	16
Louisiana	Al30792
Louisiana 1	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina 1	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee 1 4	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

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

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

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

Our Locations

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



















Page 117 of 145

Page: 1 of 3

TŁ	Tetra Tech, Inc.				901	Mid	land	i, Tex 32) 6	reet, 3 82-45 82-39	59	00											12	53	29	1		
Client Name:	Conoco Phillips	Site Manage	er:	Ch	ristian	Llull		0				Г					A	NAL	YS	IS F	REQ	-					
Project Name:	Warren Transfer Unit Release	Contact Info):		nail: ch					ch.cor	n	1	1	1	(Ci	rcl	e o	rS	pe	cif	y M	leth 	100	I I	0.)	11	1
Project Location: (county, state)	Lea County, New Mexico	Project #:		21	2C-ME	0-022	200					11															
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 7970	1										1													list)		
Receiving Laborato	ry: Pace Analytical	Sampler Sig	nature:		Adria	n							- MBO		Se Hg	Se Hg									attached li		
Comments: COF	PTETRA Acctnum											8260B	C35)		Cd Cr Pb S	Cd Cr Pb			4	8270C/625					(see		
		SAMP	LING	М	ATRIX	PR		ERV	ATIVE		(Y/N)	BTEX			Ag As Ba C	g As Ba	otiloe	amida	60B / 62	ol. 8270	80			0	er Chemistry Balance		
LAB# (LAB USE ONLY)	SAMPLE IDENTIFICATION	YEAR: 2020 DATE	TIME	WATER	SOIL	HCL	HNO3	ICE	IONE	CONTAINERS	FILTERED (Y	X 8021B	TPH TX1005 (Ext to TPH 8015M (GRO.		otal Metals Ag	CLP Metals A	ICLP Volatiles	CI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol.	PCB's 8082 / 608	PLM (Asbestos)	hloride 300.0		General Water Ch Anion/Cation Bala	TPH 8015R	НОГР
	BH-1 (0-1)	8/19/2020	800	>	X	-	_	X	4	# 1	N	X			H	H 1	- F	- 4	0	9	<u> </u>		X	0 0	DA	F	01
1	BH-1 (2-3)	8/19/2020	810	+	X			X		1	N	X	×				+			H			X			H	01
	BH-1 (4-5)	8/19/2020	820		X			X		1	N	X	X	-						H			X			H	63
	BH-4 (0-1)	8/19/2020	830	+	X			X		1	N	X	×	+			1			H			X		+	H	64
	BH-4 (2-3)	8/19/2020	840		X			X		1	N	X	×				+	+		H			X			H	03
	BH-4 (4-5)	8/19/2020	850		X		22	X		1	N	X	×			200							X			H	64
	AH-1 (0-1)	8/19/2020	900		Х			X		1	N	X	×										X		+		57
	AH-1 (2-3)	8/19/2020	910		X			X		1	N	Х	×				1			\Box			X				R
	AH-1 (4-5)	8/19/2020	920		X			X		1	N	X	×										X			\forall	15
	AH-2 (0-1)	8/19/2020	930		X			X		1	N	X	×									100	X				13
	Date: Time: 8/20/20 1400	Received by	M		14	,	ate:		Time:	4,0	2	3-20-	LAE	US		F		ARK St	(S:	ard		-					
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,	Date. Time.	Oliv	ia	6	ul	8	ite:	1/2	Time!	937)							Sp	ecial	Repo	ort Lim	its or	TRR	P Rep	ort	. J.E.	
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Page 118 of 145
Page: 2 of 3

Analysis Request of Chain of Custody Record

TŁ	Tetra	Tech,	Inc

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

100291

10	Tetra Teen, me.								82-394															n	570	/ ' '	
Client Name:	Conoco Phillips	Site Manage	r:	Chi	ristian L	Juli									(C:-							UES		NI-	,		
Project Name:	Warren Transfer Unit Release	Contact Info	:		ail: chri					ch.con	n		1	1		CIE	01	3	ped	illy	IVI	etn	oa	No	.) 	1	1
Project Location: (county, state)	Lea County, New Mexico	Project #:		212	2C-MD-	022	00																				
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701												6			8			set.	15.				d list)			
Receiving Laboratory	: Pace Analytical	Sampler Sig	nature:		Adrian								OBO - MBO		Se Hg	b Se H								ttached			
Comments: COPTE	ETRA Acctnum											8260B			Ag As Ba Cd Cr Pb Se Hg	CCLP Metals Ag As Ba Cd Cr Pb Se Hg			624	8270C/625			200	Chloride Sulfate TDS General Water Chemistry (see attached list)			
		SAMP	LING	M	ATRIX	PF		RV.	ATIVE OD	RS	(N/N)	ВТЕХ	(Ext to C		As Ba	g As Ba	Volatiles				80			Chemis	alance		
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020		T		Г				AINE	ED (Y	8021B	TX1005 (I	00	als Ag	tals A	mi Vol			Semi. V	98276	(Asbestos)	300.0	Sulfate Vater Che	on/Cation Balance	SR	
(LAB USE ONLY		DATE	TIME	WATER	SOIL	HCL	HNO3	ICE	NONE	# CONTAINERS	FILTERED	BTEX 80	TPH TX1005 (Ext to C35)	PAH 8270C	Total Metals	TCLP Metals A	TCLP Semi	RCI	GC/MS Vol.	GC/MS S	PCB's 8082 / 608	PLM (Ast	Chloride 300.0	Chloride General V	Anion/Ca	TPH 8015R	НОГР
	AH-2 (2-3)	8/19/2020	940		X			Х		1	N	X)			4	\$\bar{\pi}\$					*	Х				11
	AH-2 (4-5)	8/19/2020	950		X			X		1	N	X)										X				12
	AH-3 (0-1)	8/19/2020	1000		X			X		1	N	X)										X				13
7.	AH-3 (2-3)	8/19/2020	1010		X			X		1	N	X)										X				14
	AH-3 (4-5)	8/19/2020	1020	1.2	X			X		1	N	X)										X			13	15
	AH-4 (0-1)	8/19/2020	1030		X			X		1	N	X)			1							X				14
	AH-4 (2-3)	8/19/2020	1040		X			X		1	N	X)										X				1)
	AH-4 (4-5)	8/19/2020	1050		X			X		1	N	X)	4	Ш	1	1						X				R
	AH-5 (0-1)	8/19/2020	1100		X			X		1	N	X)		П								X		Ш		19
	AH-6 (0-1)	8/19/2020	1130		X			X		1	N	Х)			4							X				20
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		ORIGINA	AL COPY									(Ci	rcle)	HAN	D DEI	LIVE	RED	FE	DEX	UP	S	Track	ing #	:			

Page 119 of 145
Page: 3 of 3

Æ	Tetra Tech, Inc.				901	Midl	and, (43)	Texas 2) 682 2) 682	s 797 2-455	59	00											١	15	32	41	o desired
Client Name:	Conoco Phillips	Site Manage	er:	Chi	ristian	Llull												ALY				EST				200
Project Name:	Warren Transfer Unit Release	Contact Info):		ail: ch				rated	ch.com	1	1	1	(Cir	cle	or	Sp	eci	ify	Met	tho	d N	lo.)	1	11
Project Location: (county, state)	Lea County, New Mexico	Project #:		212	2C-MD	-022	00					11														
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 7970	í											6								140			list)		
Receiving Laboratory:	Pace Analytical	Sampler Sig	nature:		Adriar	1							- MRC		Se Hg	Se Hg								attached list)		
Comments: COPTET	RA Acctnum											8260B	1X1005 (Ext to C35) 8015M (GRO - DRO - ORO - MRO)		otal Metals Ag As Ba Cd Cr Pb Se Hg	Cacre			8270C/625				TDS	(see		e and
		SAME	LING	M	ATRIX	PR		RVAT		RS	î	BTEX	RO - D		As Ba (As Ba	Volatiles	00,000	Vol. 8270				Ite TC	eral Water Chemistry	larice	
LAB#	SAMPLE IDENTIFICATION	YEAR: 2020								AINE	ED (Y	8021B	1X1005 (Ext to 8015M (GRO -	00	als Ag	atiles	ni Vola	100	Semi V	82 / 60		(Aspestos)	Sulfate	Vater C	H 8015R	
(LAB USE)		DATE	TIME	WATER	SOIL	HCL	HNO3	ICE		# CONTAINERS	FILTERED (Y/N)	V 1	TPH 1X1	PAH 8270C	Total Metals	TCLP Volatiles	TCLP Semi	RCI	GC/MS Semi Vol. 82700	PCB's 8082 / 608	NORM	Chloride	Chloride	General V	TPH 8015R	НОГР
	AH-7 (0-1)	8/19/2020	1140		Х			Х		1	N	Х	X				1	BA .				X				21
	BH-7 (0-1)	8/19/2020	1150		X			X		1	N	Х	X									X				22
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3.5- 157,42h

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing	& Inno	vation	
Cooler Receipt Form			
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Cooler Received/Opened On: 8 / 2 / 20 Temp	perature	: 3.4	
Received By: Olivia Turner			
Signature: Nina Wy	. 11		
			经验证金额
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	/		
COC Signed / Accurate?	W.S. State		
Bottles arrive intact?	W.		
Correct bottles used?			
Sufficient volume sent?			
If Applicable		美国教育的	*******
VOA Zero headspace?			
Preservation Correct / Checked?			

APPENDIX E Photographic Documentation



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View of the release point.	1
212C-MD-02200	SITE NAME	Warren Unit Water Transfer Line Release	7/14/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northwest in the vicinity of the release.	2
212C-MD-02200	SITE NAME	Warren Unit Water Transfer Line Release	7/14/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north in the vicinity of the release.	3
212C-MD-02200	SITE NAME	Warren Unit Water Transfer Line Release	7/14/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View north of the impacted surface area.	4
212C-MD-02200	SITE NAME	Warren Unit Water Transfer Line Release	7/14/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View south of the impacted surface area.	5
212C-MD-02200	SITE NAME	Warren Unit Water Transfer Line Release	7/14/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View west of the impacted surface area.	6
212C-MD-02200	SITE NAME	Warren Unit Water Transfer Line Release	8/19/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northeast of the impacted surface area.	7
212C-MD-02200	SITE NAME	Warren Unit Water Transfer Line Release	8/19/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View northeast of the impacted surface area.	8
212C-MD-02200	SITE NAME	Warren Unit Water Transfer Line Release	8/19/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	TION View east in the vicinity of the release.	9
212C-MD-02200	SITE NAME	Warren Unit Water Transfer Line Release	8/19/2020



TETRA TECH, INC. PROJECT NO.	DESCRIPTION	View west in the vicinity of the release.	10
212C-MD-02200	SITE NAME	Warren Unit Water Transfer Line Release	8/19/2020

APPENDIX F NMSLO Seed Mixture Details



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

Warren Unit Water Transfer Line Release



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Preface	2
How Soil Surveys Are Made	
Soil Map	
Soil Map (Warren Unit Water Transfer Line Release)	
Legend	
Map Unit Legend (Warren Unit Water Transfer Line Release)	
Map Unit Descriptions (Warren Unit Water Transfer Line Release)	11
Lea County, New Mexico	13
KM—Kermit soils and Dune land, 0 to 12 percent slopes	
References	15

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

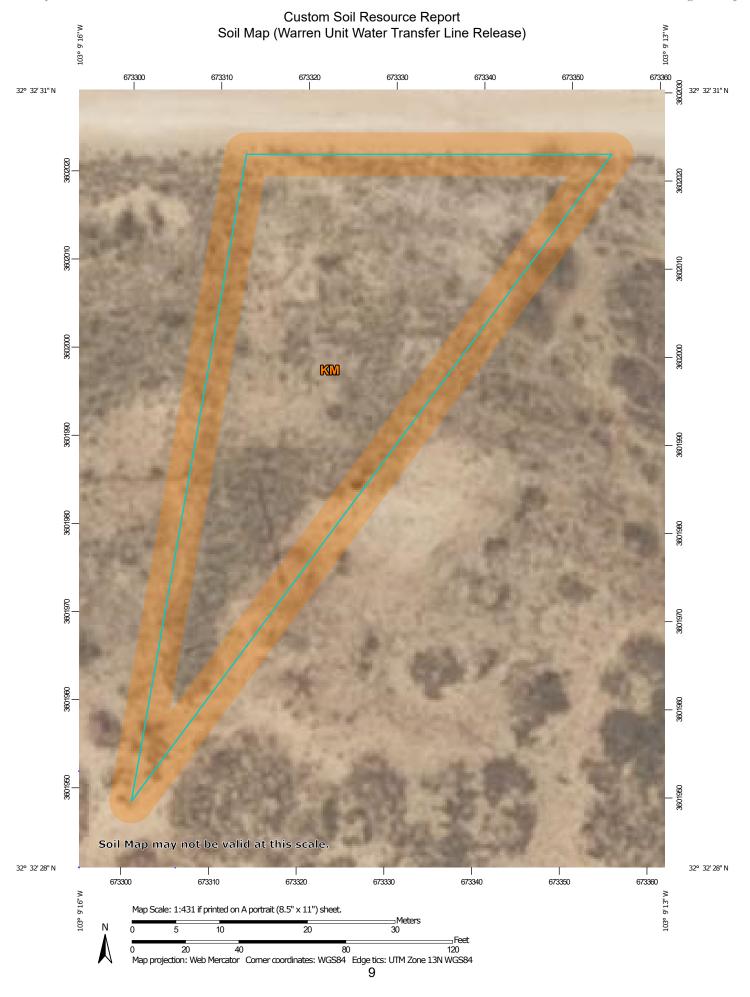
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

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.



MAP LEGEND

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Water Features

Transportation

00

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

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

Sodic Spot

Slide or Slip

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 17, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12. 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend (Warren Unit Water Transfer Line Release)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
КМ	Kermit soils and Dune land, 0 to 12 percent slopes	0.4	100.0%
Totals for Area of Interest		0.4	100.0%

Map Unit Descriptions (Warren Unit Water Transfer Line Release)

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

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent

Dune land: 44 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear, concave

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 3 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 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R042XC022NM - Sandhills

Hydric soil rating: No

Description of Dune Land

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear, concave

Across-slope shape: Convex

Typical profile

A - 0 to 6 inches: fine sand C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8e

Hydrologic Soil Group: A Hydric soil rating: No

Minor Components

Palomas

Percent of map unit: 3 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Pyote

Percent of map unit: 3 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

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NMSLO Seed Mix

Sandy (S)

SANDY (S) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Смассас			
<u>Grasses:</u> Sand bluestem	Elida, VNS, So.	2.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Black grama	VNS, Southern	777771.0	D
Sand dropseed	VNS, Southern	4.0	S
Plains bristlegrass	VNS, Southern	2.0	\mathbf{D}
	AU CR	I MIS	
Forbs:	200000	DOOD LA	4
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
		701 C	B
Shrubs:		6	B
Fourwing Saltbush	VNS, Southern	1.0	F
	Total PLS/ac	re 16.0	8 8

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.



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

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 21408

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	21408
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Approved with conditions	2/17/2023
amaxwell	The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.	2/17/2023
amaxwell	Variance request for sampling approved	2/17/2023
amaxwell	Submit closure report via the OCD permitting portal by 2/17/2024.	2/17/2023