



June 22, 2020

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

**Re: Closure Report
ConocoPhillips
Baish "A" Battery Release
Unit Letter H, Section 21, Township 17 South, Range 32 East
Lea County, New Mexico
1RP-5641
Incident ID# #NJEG1922759656**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a release that occurred at the Baish "A" Battery, Unit H, Section 21, Township 17 South, Range 32 East, Lea County, New Mexico (Site). The release site coordinates are 32.822763, -103.764325. The Site location is shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) Initial Site Assessment/Characterization Report (Form C-141), the release occurred on June 6, 2019. The release occurred due to a malfunctioning dump valve on the heater treater and resulted in the discharge of 3 barrels (bbls) of crude oil and 3.62 bbls of produced water to the ground surface. Due to the small volume released, no fluids were recovered. The C-141 Form is included in Appendix A. The Incident identification number for this release is #NJEG1922759656.

SITE CHARACTERIZATION

A site characterization was performed and per 19.15.29.12 NMAC, no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances and the Site is in a low karst potential area.

The New Mexico Office of the State Engineer (NMOSE) well database indicates that two water wells are located in Section 21, Township 17 South, Range 32 East in with average groundwater depths documented at 92 feet below ground surface (bgs). The site characterization data including the groundwater database report for these two wells 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 levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

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Based upon the Site characterization, the proposed RRALs for soil are as follows:

- Benzene: 10 milligrams per kilogram (mg/kg);
- Total BTEX (sum of benzene, toluene, ethylbenzene, and xylene): 50 mg/kg;
- TPH (GRO + DRO + ORO): 2,500 mg/kg;
- TPH (GRO + DRO): 1,000 mg/kg;
- Chloride: 10,000 mg/kg (600 mg/kg in the top four feet)

INITIAL SITE ASSESSMENT

ConocoPhillips personnel were initially onsite to delineate and sample the release area in July 2019. Seven (7) borings (SP-1 through SP-7) were installed using a hand auger to depths ranging from 4 to 8 feet bgs to evaluate the vertical extents of the release. A total of 25 soil samples were collected from these 7 boring locations on July 1, 2019 (Figure 3). Selected samples were submitted to an analytical laboratory for total petroleum hydrocarbons (TPH) by EPA Method 8015, benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8021B and chloride (by method SM4500Cl-B) analyses.

ADDITIONAL SITE ASSESSMENT

To completely define the release footprint, Tetra Tech personnel were onsite to further delineate and sample the release area in September 2019. Ten (10) borings (BH-1 – BH-10) were installed using an air rotary drilling rig to various depths to evaluate the vertical and horizontal extents of the release. A total of two (2) additional borings (BH-11 and BH-12) were completed to a depth of 6 inches within the interior area of the tank battery using a hand auger. Selected samples were submitted to an analytical laboratory for TPH, BTEX, and chloride (EPA Method 300.0) analyses.

SUMMARY OF SAMPLING RESULTS

The results of the initial sampling event in July 2019 are summarized in Table 1. The boring locations are shown on Figure 3. The analytical results associated with the samples within the release area were predominantly above the RRALs for BTEX and TPH at the surface. Five of the boring locations (SP-1, SP-2, SP-4, SP-6, and SP-7) had surface samples that exceeded the RRAL for BTEX. In addition, the sample from the 2-foot interval at boring location SP-1 exceeded the RRAL for BTEX. At boring location SP-5, the surface sample results exceed the RRAL for TPH. At boring locations SP-1, SP-2, and SP-7, there were exceedances of the RRAL for TPH from the surface down to the 3-foot interval. At boring locations SP-3, SP-4, and SP-6, there were exceedances of the RRAL for TPH from the surface down to the 4-foot depth interval. There was one RRAL exceedance for chloride at boring location SP-3 (SURFACE).

The results of the additional sampling event in September 2019 are summarized in Table 2. The sample locations are shown in Figure 3. The analytical results associated with boring locations BH-1, BH-2, BH-4, BH-5 and BH-8 had exceedances of the RRAL for TPH from the surface to the 3-foot depth interval. There were no exceedances of chloride or BTEX in the associated analytical results from the September 2019 sampling event.

REMEDIATION WORK PLAN AND ALTERNATIVE CONFIRMATION SAMPLE PLAN

The Release Characterization Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCd on November 15, 2019 with fee application payment PO Number 5AMTX-191115-C-1410. The Work Plan described the results of the release assessment and provided characterization of the impact at the site. The Work Plan was conditionally approved via email by Robert Hamlet on Friday, January 10, 2020.

Mr. Hamlet stated the following stipulations of the conditional approval:

- *"All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH less than 100 mg/kg. In the*

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pasture area, 4 feet below ground surface, soil contamination limits revert back to Table 1 "Closure Criteria for Soils Impacted by a Release" included in the spill rule <http://164.64.110.134/parts/title19/19.015.0029.html>

- *Please ensure soil sample point SP-4 is excavated until Chlorides are below 10,000 mg/kg and TPH (GRO + DRO) is below 1,000 mg/kg*
- *Please also excavate SP-7 to 4' below ground surface to meet the chloride limit of 600 mg/kg and 100 mg/kg for TPH in the pasture area."*

Additionally, the approval stated that:

"The OCD Payment Portal is inadvertently scrubbing print from some Adobe PDFs that have been submitted. The OCD is aware of the problem and trying to fix the issue. Please, sign/date the attached Remediation page and sent it back to my e-mail address. We will archive the document in the well file."

In accordance with 19.15.29.12(D)(1)(b) NMAC, an Alternative Confirmation Sampling Plan for the Site was prepared by Tetra Tech on behalf of ConocoPhillips and originally submitted separately to NMOCD in an email dated March 4, 2020. That submittal included the signed Remediation page as requested. No response was received to the Variance Request. Follow-up email correspondence regarding the Plan approval was sent March 12, 2020, again with no reply.

Thus, given the lack of response, the Alternative Confirmation Sampling Plan was submitted separately to NMOCD on April 9, 2020 with fee application payment PO Number 99C2V-200409-C-1410. The Alternative Confirmation Sampling Plan was approved via email on Friday, April 24, 2020. The approval added the additional comment:

"We have received your variance request for Incident #NJEG1922759656 Baish A Battery, thank you.

- *Your request to performing a grab sample plan of the remediation area, where each composite sample is not representative of more than 500 ft² is approved.*
- *Please follow all other conditions set forth in the previously Approved Remediation Plan.*
- *All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH less than 100 mg/kg. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 "Closure Criteria for Soils Impacted by a Release" included in the spill rule <http://164.64.110.134/parts/title19/19.015.0029.html>*
- *All other closure reporting need to follow requirements set forth in 19.15.29.12 NMAC*
- *Restoration, reclamation and re-vegetation need to follow requirements set forth in 19.15.29.13 NMAC Please let me know if you have any further questions."*

REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

From March 10, 2020 through April 27, 2020, Tetra Tech personnel were onsite to supervise the remediation activities proposed in the Work Plan, including excavation, disposal and confirmation sampling. Impacted soils were initially excavated until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the site. Once field screening was completed, confirmation floor and sidewall samples were collected for laboratory analysis to verify that the impacted materials were properly removed. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs to demonstrate compliance.

Per the approved Alternative Confirmation Sampling Plan, a total of forty (40) floor sample locations and sixty (60) sidewall sample locations were used during the remedial activities. Confirmation sidewall sample locations were categorized with the cardinal direction (N,E,S,W) followed by SW-#. Confirmation floor sample locations are labeled with "FS"-#. Selected areas required additional excavation to collect a representative sample that was below the respective RRAL for that location. As the analytical results associated with these sample locations exceeded the respective RRAL, additional excavation was conducted at those locations until field screening results indicated closure criteria were attained.

Iterative confirmation samples were located to encompass the original sample locations that triggered removal (nomenclature defined in Table 3) post-additional excavation. If the sidewall area was expanded due to unacceptable confirmation sample results, the parentheses indicate the expansion iteration. For floor samples, the parentheses indicate the excavation floor depth from which the sample was collected. Interior sidewall (ISW) sample locations were collected to verify constituent concentrations for selected areas found at the interface of two interior excavated areas of differing depths. Excavated areas, depths and confirmation sample locations are shown in Figure 4.

Collected samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Pace Analytical (Pace). The soil samples were analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8021B, and chlorides by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the March - April 2020 confirmation sampling events are summarized in Table 3.

The central "channel" of the release extent was the deepest portion of the excavation, extending to 5 feet bgs. The area around SP-5 (in the vicinity of FS-31, FS-33 and FS-34) was excavated to 2 feet bgs. The interior area behind the earthen firewall (in the vicinity of FS-38 and FS-39) was hand dug to a depth of 1 foot below grade. The remainder of the release extent was excavated to 4 feet bgs.

Per NMOCD conditional approval, the area surrounding SP-7 was excavated to 4 feet below existing grade to meet applicable limits. As stipulated in the approval, the area surrounding SP-4 was excavated to 5 feet below existing grade and chloride and TPH (GRO + DRO) concentrations were less than the applicable limits. The north-central area of the Site outside the initial release extent (around the plugged well marker and locations NSW-9, NSW-10 and FS-40) was expanded and excavated to a depth of 4 feet below existing grade. The area south of boring SP-7 outside the initial release extent (in the vicinity of FS-13 and FS-14) was expanded and excavated to 4 feet below existing grade. After iterative confirmation sampling, all final confirmation soil samples (floor and sidewall) were below the respective RRALs for BTEX, TPH and chlorides. Per requirements set forth in 19.15.29.13 NMAC, all off-pad areas contain a minimum of 4 feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH less than 100 mg/kg (Table 3).

All the excavated material was transported offsite for proper disposal. Approximately 5,536 cubic yards of material were transported to the R360 facility in Hobbs, New Mexico. Photographs from the excavated areas prior to backfill are provided in Appendix D. Once completed, the excavated areas were backfilled with clean material to surface grade. The remediated off-pad areas contain soil backfill consisting of suitable material to establish vegetation at the site.

As prescribed in the Work Plan, the backfilled areas were seeded to aid in revegetation. Based on the soils at the site and the approved Work Plan, the New Mexico State Land Office (NMSLO) Shallow (SH) Sites Seed Mixture was used for seeding and was planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture was spread by a tractor-pulled seed drill equipped with a depth regulator.

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.

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CONCLUSION

ConocoPhillips respectfully requests closure of this release based on the confirmation sampling results and remediation activities performed. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 338-2861 or Greg at (432) 682-4559.

Sincerely,
Tetra Tech, Inc.



Christian M. Llull, P.G.
Project Manager



Greg W. Pope, P.G.
Program Manager

cc:
Mr. Marvin Soriwei, RMR – ConocoPhillips
Mr. Charles Beauvais, GPBU - ConocoPhillips

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LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Release Assessment Map
- Figure 4 – Remediation Extent and Confirmation Sample Locations

Tables:

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

Appendices:

- Appendix A – C-141 Forms
- Appendix B – NMOSE Groundwater Data/Karst Potential Map
- Appendix C – Laboratory Analytical Data
- Appendix D – Photographic Documentation

FIGURES



Source: Esri World Map, May 2019.



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CONOCOPHILLIPS

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LEA COUNTY, NEW MEXICO

**BAISH "A" BATTERY
OVERVIEW MAP**

PROJECT NO.: 212C-MD-02120

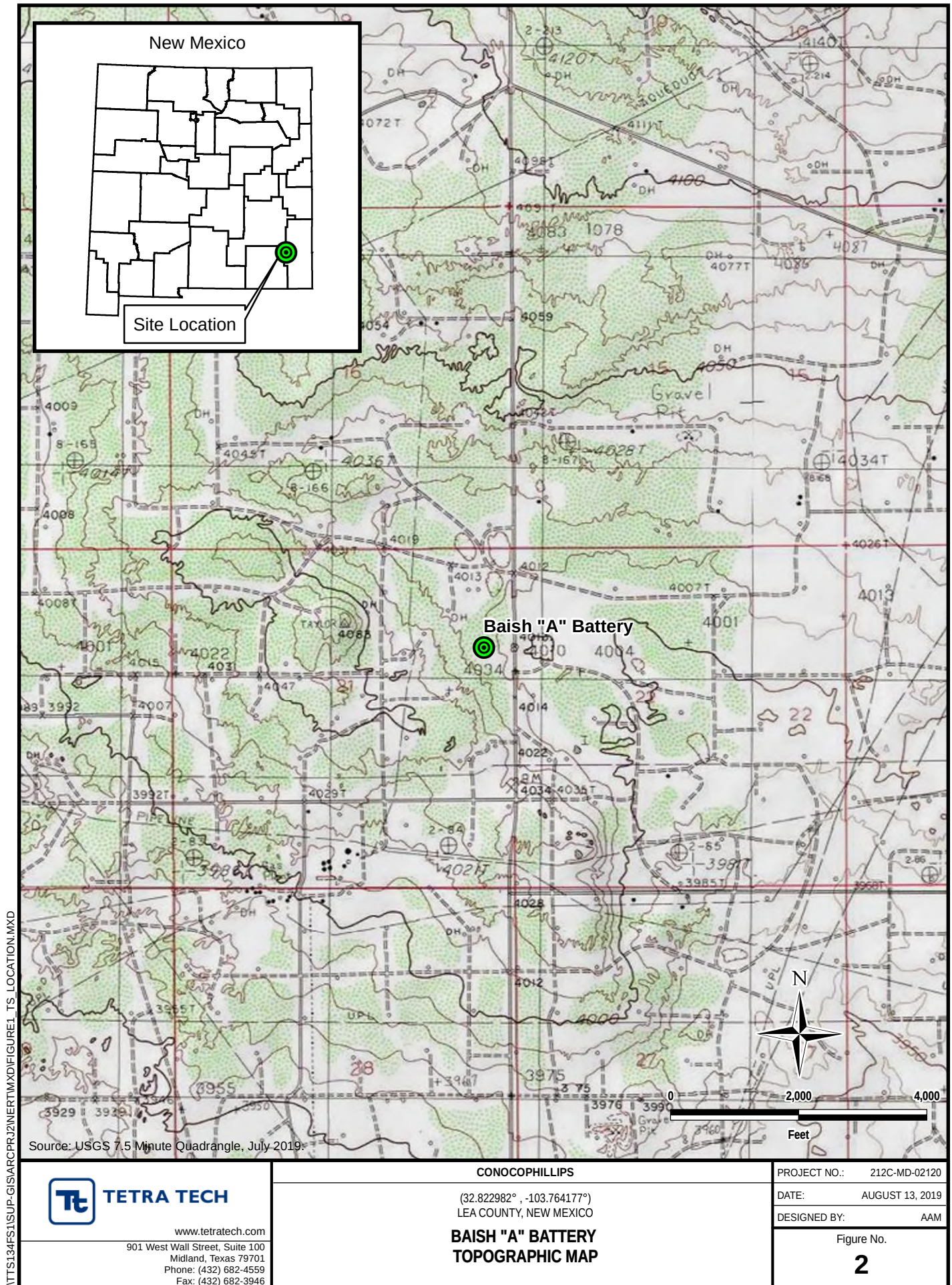
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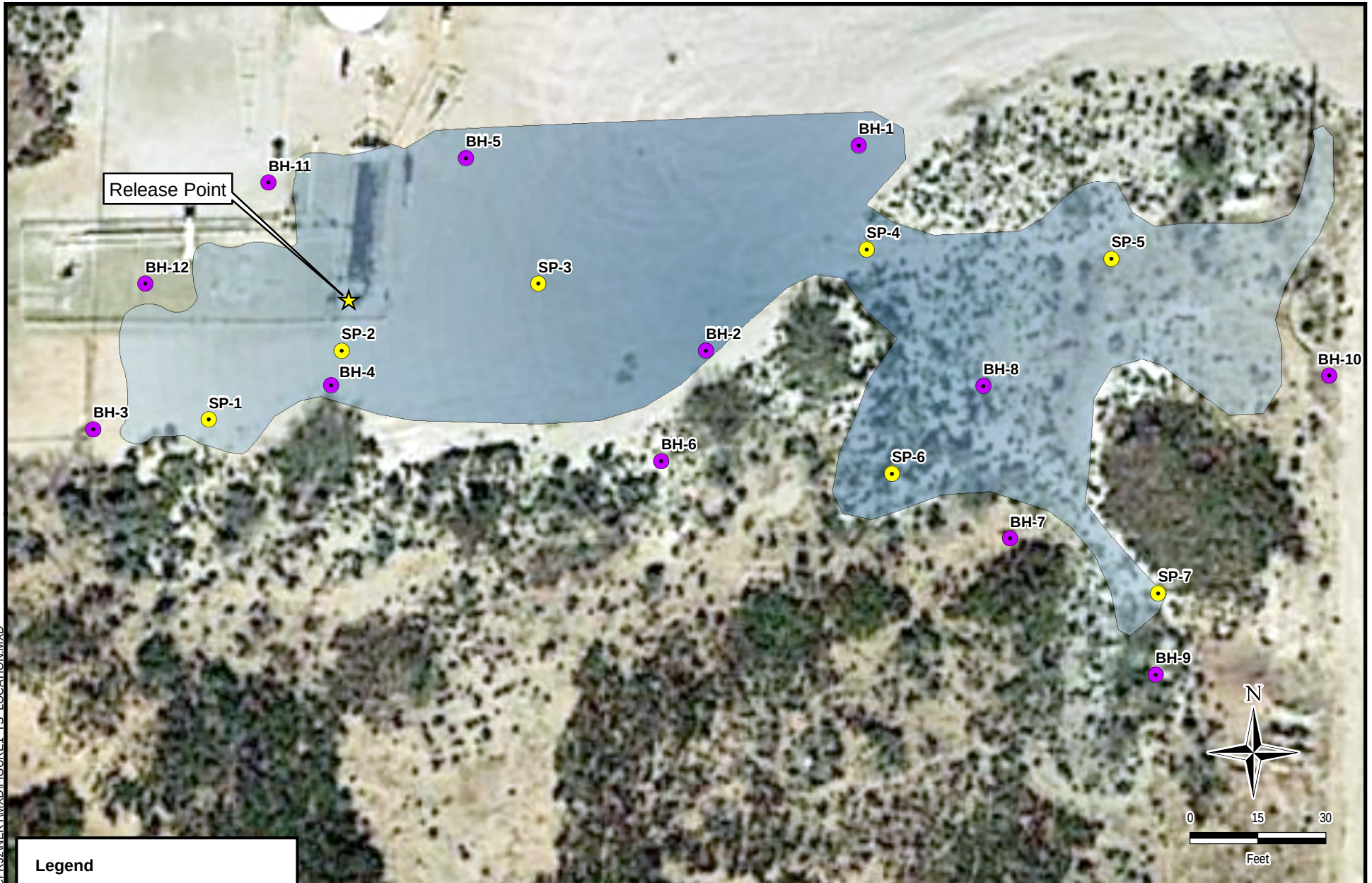
DESIGNED BY: AAM

Figure No.

1

\\TTS134FS1\SUP-GIS\ARCP\212NERT\W\XDF\FIGURE1_TS_LOCATION.MXD





Legend

- Initial Soil Assessment (Boring Location)
- Additional Soil Assessment (Boring Location)
- Approximate Release Area



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BAISH "A" BATTERY
RELEASE ASSESSMENT MAP

PROJECT NO.: 212C-MD-02120

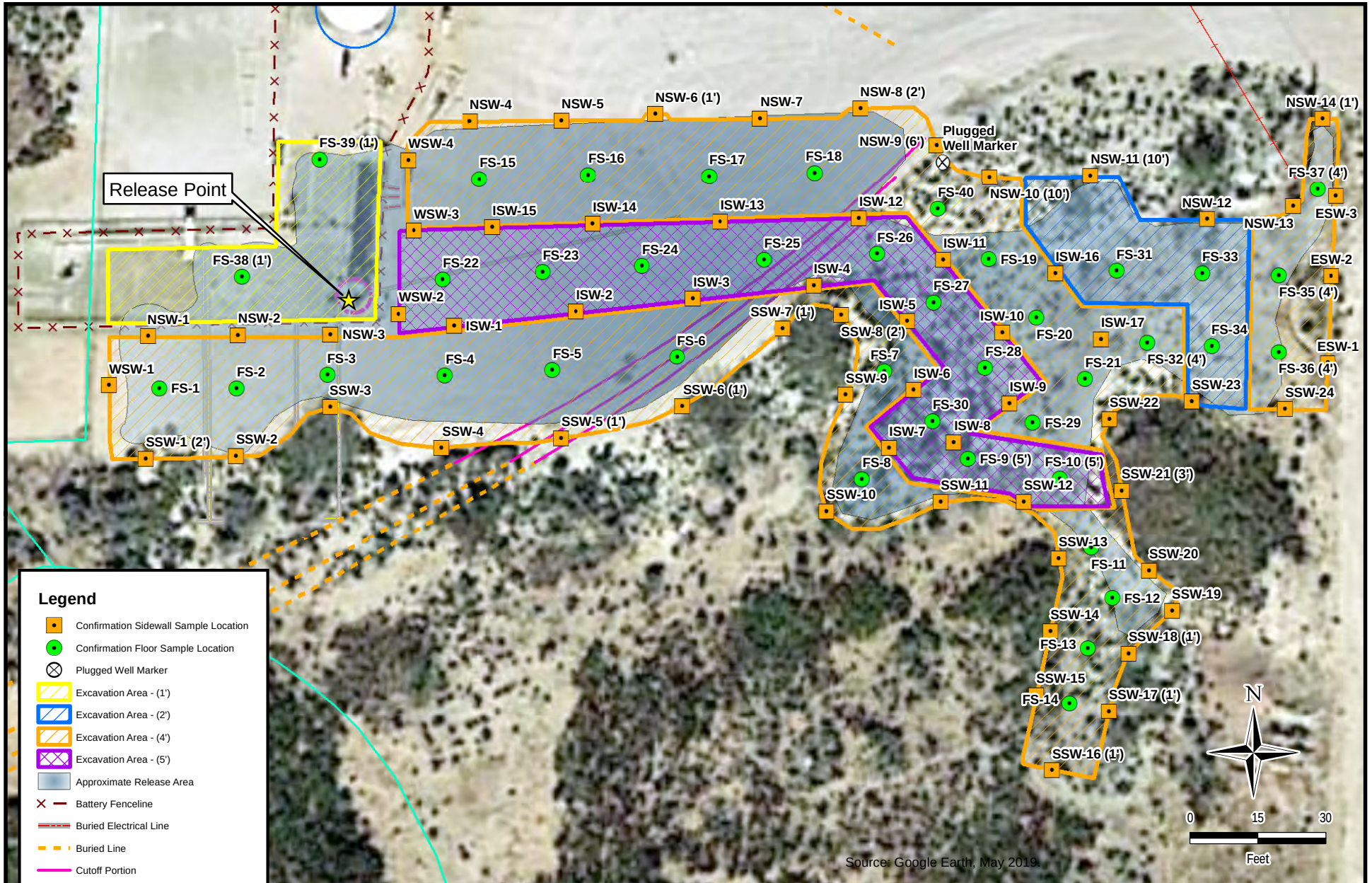
DATE: MAY 18, 2020

DESIGNED BY: AAM

Figure No.

3

\\TTS134F51SUP-GIS\ARCP\212C\MD\FIGURE1.TS LOCATION.MXD



\\TTS134FS1\SUP-GIS\ARCP\RJ2\NERT\MXD\FIGURE1_TS_LOCATION.MXD



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BAISH "A" BATTERY

REMEDIATION EXTENTS AND CONFIRMATION SAMPLING LOCATIONS

PROJECT NO.: 212C-MD-02120

DATE: MAY 18, 2020

DESIGNED BY: AAM

Figure No.

4

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
INITIAL SOIL ASSESSMENT
BAISH "A" BATTERY RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Chloride ¹	BTEX ²								TPH ³								
				Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX	GRO		DRO		ORO		GRO + DRO	TPH (C ₆ - C ₃₆)
													C ₆ - C ₁₀		>C ₁₀ - C ₂₈		>C ₂₈ - C ₃₆		C6 - C28	
		ft. bgs	mg/kg	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	mg/kg
SP-1	07/01/19	0	<16.0	<2.00		6.2		15.2		77.1		98.4	2230		10400		1570		12630	14200
		2	<16.0	<2.00		3.71		11.3		46.7		61.7	1220		7050		1540		8270	9810
		4	<16.0	<0.050		<0.050		<0.050		0.209		<0.300	<50.0		376		270		376	646
SP-2	07/01/19	0	80	<1.00	QR-03	9.35		16.8	QM-07	60.9	QM-07	87.1	1480	QM-07	17300	QM-07	3200		18780	21980
		2	32	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		20.3		21.5		20.3	41.8
		4	32	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		<10.0		<10.0		--	--
SP-3	07/01/19	0	1660	<0.050		1.8		3.06		11.6		16.5	281		15600		4190		15881	20071
		2	336	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		1430		978		1430	2408
		4	96	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		1810		1000		1810	2810
		6	192	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		192		109		192	301
		8	144	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		95.7		51		95.7	146.7
SP-4	07/01/19	0	32	2.44		25.4		18		63.1		109	1690		17700		2900		19390	22290
		2	32	<0.050		0.064		0.166		0.634		0.864	20.7		142		51.6		162.7	214.3
		4	32	<0.200		4.53		4.39		14.3		23.3	373		2230		393		2603	2996
SP-5	07/01/19	0	32	0.3		4.61		3.5		12.1		20.5	682		32500		7580		33182	40762
		2	128	0.055		0.292		0.372		1.26		1.97	22.3		819		572		841.3	1413
		4	288	<0.050		0.104		0.138		0.461		0.703	<10.0		412		315		412	727
SP-6	07/01/19	0	<16.0	<0.500		9.45		11.5		43.9		64.9	1490		22000		4380		23490	27870
		2	16	<0.050		0.497		0.092		<0.150		0.726	11		416		309		427	736
		4	32	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		1430		1120		1430	2550
		6	16	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		12.1		14.4		12.1	26.5
SP-7	07/01/19	0	<16.0	0.515		11		14.4		48.6		74.5	1580		18600		3700		20180	23880
		2	16	<0.050		<0.050		0.059		0.225		<0.300	12.8		442		122		454.8	576.8
		4	64	<0.050		0.198		0.139		0.401		0.737	24.1		912		193		936.1	1129
		6	16	<0.050		<0.050		<0.050		<0.150		<0.300	<10.0		107		87.1		107	194.1

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

DRO Diesel Range Organics

GRO Gasoline Range Organics

ORO Oil Range Organics

Bold and italicized values exceed the proposed RRAL for the Site.

Shaded rows indicate depth intervals proposed for excavation and remediation.

1 Method 300.0

2 Method 8260B

3 Method 8015M

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.

QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT
BAISH "A" BATTERY RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Field Screening Results		Chloride ¹	BTEX ²								TPH ³								
			Chloride	PID		Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX	GRO		DRO		ORO		GRO + DRO	TPH (C ₆ - C ₃₆)
						C ₆ - C ₁₀	>C ₁₀ - C ₂₈	>C ₂₈ - C ₃₆	C6 - C28													
		ft. bgs	ppm		mg/kg	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	mg/kg
BH-1	09/10/19	0-1	NM	18.1	458	<0.00106		<0.00531		<0.00266		<0.00690	J4	--	<0.106		1420		1760		1420	3180
		2-3	694	13.4	148	<0.00103		<0.00517		<0.00259		<0.00673	J4	--	<0.103		1080		1400		1080	2480
		4-5	307	10.3	408	<0.00103		<0.00513		<0.00257		<0.00667	J4	--	<0.103		317		663		317	980
		6-7	538	10.3	377	<0.00108		<0.00542		<0.00271		<0.00705	J4	--	<0.108		28		59.8		28	87.8
		9-10	423	6.6	935	<0.00114		<0.00568		<0.00284		<0.00738	J4	--	<0.114		25.4		44.4		25.4	69.8
BH-2	09/10/19	0-1	NM	112.6	281	<0.00103		<0.00517		<0.00258		<0.00672	J4	--	0.14	B	2880		1680		2880	4560
		2-3	NM	87.4	157	<0.00102		<0.00512		<0.00256		<0.00666	J4	--	0.0655	B J	1020		1180		1020	2200
		4-5	113	36.9	70.7	<0.00101		<0.00506		<0.00253		<0.00657	J4	--	<0.101		152		232		152	384
		6-7	116	17.4	108	<0.00103		<0.00513		<0.00256		<0.00667	J4	--	0.023	B J	43.2		60.8		43.22	104.02
		9-10	114	9.4	190	<0.00107		<0.00533		<0.00267		<0.00693	J4	--	<0.107		4.63		15.9		4.63	20.53
BH-3	09/10/19	0-1	NM	8.1	23.5	<0.00103		<0.00514		<0.00257		<0.00668	J4	--	0.0236	B J	251		455		251.02	706.02
		2-3	36.2	7.2	23.5	<0.00102		<0.00509		<0.00255		<0.00662	J4	--	<0.102		418		953		418	1371
		4-5	NM	7.0	23.9	<0.00103		<0.00517		<0.00259		<0.00672		--	<0.103		189		524		189	713
		6-7	NM	7.8	71.6	0.000532	J	<0.00524		<0.00262		<0.00681		0.000532	<0.105		36.1	J	103		36.1	139.1
		9-10	NM	7.0	260	0.000558	J	<0.00559		<0.00280		<0.00727		0.000558	<0.112	J3	42.5		104		42.5	146.5
BH-4	09/10/19	0-1	152	36.1	124	0.0012		<0.00536		<0.00268		<0.00696		0.0012	<0.107		1600		1370		1600	2970
		2-3	NM	39.4	208	0.00152		<0.00508		<0.00254		<0.00660		0.00152	<0.102		3380		2680		3380	6060
		4-5	NM	39.1	57.9	0.00139		<0.00512		<0.00256		<0.00666		0.00139	<0.102		200		161		200	361
		6-7	112	16.0	145	0.000795	J	<0.00532		<0.00266		<0.00692		0.000795	<0.106		8.7		10.4		8.7	19.1
		9-10	NM	10.0	201	0.000765	J	<0.00551		<0.00276		<0.00716		0.000765	<0.110		7.95		10.8		7.95	18.75
BH-5	09/11/19	0-1	NM	2.8	172	<0.00102		<0.00508		<0.00254		<0.00660		--	<0.103		27		77.3		27	104.3
		2-3	258	2.5	133	0.00115		<0.00508		<0.00254		<0.00660		0.00115	<0.102		1650		4890		1650	6540
		4-5	184	4.4	70.1	0.00066	J	<0.00508		<0.00254		<0.00660		0.00066	<0.102		246		748		246	994
		6-7	NM	4.2	86.9	0.00111	J	<0.00562		<0.00281		<0.00730		0.00111	<0.112		50.8		143		50.8	193.8
		9-10	98	>1100	57.7	0.00163		0.00351	J	0.486		0.21		0.70114	170		747		561		917	1478
		12-13	NM	100.8	72	<0.00114		<0.00569		0.00826		<0.00740		0.00826	0.598		39.6		51.7		40.20	91.90
		14-15	NM	54.5	95	<0.00114		<0.00569		0.00186	J	<0.00740		0.00186	0.34		33.8		40.5		34.14	74.64
		19-20	NM	6.2	160	<0.00112		<0.00560		<0.00280		<0.00729		--	<0.112		<4.48		1.55	J	--	1.55

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
ADDITIONAL SOIL ASSESSMENT
BAISH "A" BATTERY RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Interval	Field Screening Results		Chloride ¹	BTEX ²								TPH ³								
						Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX	GRO		DRO		ORO		GRO + DRO	TPH (C ₆ - C ₃₆)
			Chloride	PID		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	C ₆ - C ₁₀	>C ₁₀ - C ₂₈	>C ₂₈ - C ₃₆	C ₆ - C ₂₈				
		ft. bgs	ppm		mg/kg	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	mg/kg
BH-6	09/11/19	0-1	91.3	17.2	40.9	0.000499	J	<0.00570		<0.00285		<0.00740		0.000499	0.0405	B J	30.4		81.3		30.44	111.74
		2-3	87.1	16.6	42.3	0.000518	J	<0.00533		<0.00266		<0.00692		0.000518	0.0452	B J	63.1		148		63.15	211.15
		4-5	NM	6.6	20.4	<0.00101		<0.00506		<0.00253		<0.00658		--	<0.101		1.87	B J J3	2.44	J	1.87	4.31
		6-7	82.2	4.6	94.9	0.000435	J	<0.00517		<0.00258		<0.00672		0.000435	<0.103		1.78	B J	3.04	J	1.78	4.82
BH-7	09/11/19	0-1	41.8	6.8	3.75	<0.00104		<0.00521		<0.00261		<0.00678		--	<0.104		7.55	B	46.3		7.55	53.85
		2-3	36.4	4.7	15.4	<0.00101		<0.00505		<0.00253		<0.00657		--	<0.101		5.75	B	30.5		5.75	36.25
		4-5	NM	6.3	3.1	<0.00101		<0.00504		<0.00252		<0.00655		--	0.0463	B J	16.3	B J	95.5		16.35	111.85
BH-8	09/11/19	0-1	NM	252.8	51.4	<0.00103		<0.00514		0.0138		0.155		0.1688	1.3		3830		2350		3831	6181
		2-3	NM	237.5	63.7	<0.00106		<0.00529		0.0106		0.121		0.1316	1.51		5520		3670		5522	9192
		4-5	671	36.8	57.6	<0.00103		<0.00515		0.00093	J	0.0217		0.02263	0.142	B	336		1010		336.14	1346
		6-7	180	4.1	74.9	<0.00105		<0.00523		<0.00261		<0.00680		--	0.0564	B J	408		1030		408.06	1438
		9-10	128	3.4	214	<0.00105		<0.00526		<0.00263		<0.00684		--	0.0498	B J	10.6		9.11		10.65	19.76
BH-9	09/11/19	0-1	NM	5.4	22.4	<0.00100		<0.00502		<0.00251		<0.00653		--	0.0507	B J	155		452		155.05	607.05
		2-3	NM	4.9	4.32	<0.00102		<0.00510		<0.00255		<0.00662		--	0.0508	B J	326		795		326.05	1121
BH-10	09/11/19	0-1	134	8.6	4	<0.00114		<0.00569		<0.00284		<0.00739		--	<0.114		24.7		32		24.7	56.7
		2-3	112	9.8	3.97	<0.00123		<0.00615		<0.00307		<0.00799		--	<0.123		<4.92		3.36	J	--	3.36
		4-5	NM	3.4	2.76	<0.00104		<0.00518		<0.00259		<0.00673		--	<0.105		115		194		115	309
BH-11	09/11/19	0-0.5	NM	0.1	30.7	<0.00101		<0.00506		<0.00253		<0.00658		--	<0.102		29.8		72.4		29.8	102.2
BH-12	09/11/19	0-0.5	NM	3.2	2.64	<0.00101		<0.00504		<0.00252		<0.00655		--	<0.102		21.1		69.9		21.1	91

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
ppm Parts per million
NM Not measured
TPH Total Petroleum Hydrocarbons
DRO Diesel Range Organics
GRO Gasoline Range Organics
ORO Oil Range Organics

Bold and italicized values exceed the proposed RRAL for the Site.

Shaded rows indicate depth intervals proposed for excavation and remediation.

- 1 Method 300.0
2 Method 8260B
3 Method 8015M
B The same analyte is found in the associated blank.
J The identification of the analyte is acceptable; the reported value is an estimate.
J3 The associated batch QC was outside the established quality control range for precision.
J4 The associated batch QC was outside the established quality control range for accuracy.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING
CONOCOPHILLIPS
BAISH A BATTERY RELEASE
1RP-5641
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)		
														C ₃ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₄₀				
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg			
FS-1 (4')	3/20/2020	4	52.0		< 0.00103		< 0.00514		< 0.00257		< 0.00669		-	< 0.103		< 4.11		0.717	J	0.717		
FS-2 (4')	3/20/2020	4	43.5		< 0.00120		< 0.00602		< 0.00301		< 0.00783		-	< 0.120		177		175		352		
FS-3 (4')	3/20/2020	4	19.6	B	< 0.00123		< 0.00615		< 0.00308		< 0.00800			< 0.123		< 4.92		< 4.92		-		
FS-4 (4')	3/27/2020	4	5.24	J	0.000613	J	0.00164	J	< 0.00256		< 0.00664	0.00225		0.0281	J	< 4.09		0.810	B J	0.838		
FS-5 (4')	3/27/2020	4	161		< 0.00103		< 0.00514		< 0.00257		< 0.00669	-		< 0.103		< 4.11		0.462	B J	0.462		
FS-6 (4')	3/27/2020	4	173		< 0.00102		< 0.00509		< 0.00255		< 0.00662	-		0.0223	J	< 4.07		1.10	B J	1.12		
FS-7 (4')	4/1/2020	4	76.2		< 0.00105		< 0.00527		< 0.00264		< 0.00686	-		0.0400	J	< 4.22		1.38	J	1.42		
FS-8 (4')	4/1/2020	4	33.9		< 0.00106	J3	< 0.00528	J3	< 0.00264	J3	< 0.00687	J3	-	0.0295	J	49.1		132		181		
FS-9 (4')	4/1/2020	4	14.5	B	< 0.00844		0.0108	J	0.352		5.24	5.60		458		4330		1580		6368		
FS-9 (5')*	4/9/2020	5	47.5		< 0.00103		< 0.00516		< 0.00258		< 0.00671	-		0.0398	J	1.82	J	0.728	J	2.59		
FS-10 (4')	3/27/2020	4	154		< 0.00109		< 0.00545		< 0.00272		< 0.00708	-		0.785		1390		1210		2601		
FS-10 (5')*	4/1/2020	5	107		< 0.00104	J3	< 0.00520	J3	< 0.00260	J3	< 0.00676	J3	-	0.0530	B J	< 4.16		< 4.16		0.0530		
FS-11 (4')	3/27/2020	4	4.49	J	< 0.00106		< 0.00528		< 0.00264		< 0.00686	-		< 0.106		< 4.22		2.07	B J	2.07		
FS-12 (4')	3/27/2020	4	6.60	J	< 0.00108		< 0.00539		< 0.00269		< 0.00700	-		< 0.108		209		446		655		
FS-13 (4')	3/27/2020	4	7.99	B J	< 0.00105		< 0.00525		< 0.00262		< 0.00682	-		< 0.105		23.0		40.6		63.6		
FS-14 (4')	3/27/2020	4	6.79	B J	< 0.00101		< 0.00506		< 0.00253		< 0.00658	-		< 0.101		220		486		706		
FS-15 (4')	4/1/2020	4	89.3		< 0.00107		< 0.00533		< 0.00266		< 0.00692	-		0.0891	B J	27.6	J	77.3		105		
FS-16 (4')	4/1/2020	4	1160		< 0.00105		< 0.00523		< 0.00262		< 0.00681	-		0.0953	B J	1.79	J	0.805	J	2.69		
FS-17 (4')	4/1/2020	4	1680		< 0.00108		< 0.00538		< 0.00269		< 0.00699	-		0.0841	B J	1.90	J	2.39	J	4.37		
FS-18 (4')	4/1/2020	4	88.7		< 0.00105		< 0.00525		< 0.00262		< 0.00682	-		0.0972	B J	< 4.20		1.12	J	1.22		
FS-19 (4')	4/1/2020	4	54.5		< 0.00110		< 0.00552		< 0.00276		< 0.00718	-		0.0934	B J	418		963		1381		
FS-20 (4')	4/1/2020	4	95.8		< 0.00106		< 0.00530		< 0.00265		< 0.00689	-		0.0689	B J	323		466		789		
FS-21 (4')	4/1/2020	4	22.4		< 0.00106		< 0.00532		< 0.00266		< 0.00692	-		0.0716	B J	151	J	332		483		
FS-22 (5')	4/1/2020	5	93.5		< 0.00105		< 0.00524		< 0.00262		< 0.00682	-		0.0877	B J	< 4.20		0.392	J	0.480		
FS-23 (5')	4/1/2020	5	69.7		< 0.00102		< 0.00510		< 0.00255		< 0.00663	-		0.0809	B J	< 4.08		2.59	J	2.67		
FS-24 (5')	4/1/2020	5	180		< 0.00104		< 0.00522		< 0.00261		< 0.00678	-		0.0777	B J	281		813		1094		

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING
CONOCOPHILLIPS
BAISH A BATTERY RELEASE
1RP-5641
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³									
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)				
														C ₃ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₄₀						
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg			
FS-25 (5')	4/1/2020	5	157		< 0.00104		< 0.00521		< 0.00260		< 0.00677		-	0.0830	B J	281		828		1109				
FS-26 (5')	4/1/2020	5	111		< 0.00103		< 0.00516		< 0.00258		< 0.00671		-	0.0951	B J	< 4.13		1.14	J	1.24				
FS-27 (5')	4/1/2020	5	175		< 0.00105		< 0.00527		< 0.00263		< 0.00685		-	0.0866	B J	2.45	J	2.09	J	4.63				
FS-28 (5')	4/1/2020	5	53.7		< 0.00106		< 0.00528		< 0.00264		< 0.00687		-	0.109	B	< 4.23		0.381	J	0.49				
FS-29 (5')	4/1/2020	5	20.5		< 0.00110		< 0.00552		< 0.00276		< 0.00718		-	0.0962	B J	9.46		18.8		28.4				
FS-30 (5')	4/1/2020	5	21.5		< 0.00103		< 0.00514		< 0.00257		< 0.00668		-	0.0826	B J	108		255		363				
FS-31 (2')	4/1/2020	2	1.88	B J	< 0.00104		< 0.00520		< 0.00260		< 0.00676		-	0.0861	B J	< 4.16		< 4.16		0.0861				
FS-32 (2')	4/1/2020	2	5.86	B J	< 0.00821		0.169		6.03		29.4		35.6	1610		11400		5300		18310				
FS-32 (4')*	4/9/2020	4	< 20.3		< 0.00101		< 0.00506		0.00459		0.0579		0.0625	0.200		108		325		433				
FS-33 (2')	4/1/2020	2	8.90	B J	< 0.00102		< 0.00512		< 0.00256		< 0.00665		-	< 0.102		12.3		5.98		18.3				
FS-34 (2')	4/1/2020	2	4.00	B J P1	< 0.00103		< 0.00514		< 0.00257		< 0.00668		-	< 0.103		3.82	J	13.4		17.2				
FS-35 (2')	4/1/2020	2	44.9		< 0.00103		< 0.00515		< 0.00258		< 0.00670		-	2.38		1550		1380		2932				
FS-35 (4')*	4/9/2020	4	< 24.0		< 0.00120		< 0.00600		< 0.00300		< 0.00780		-	< 0.120		< 4.80		< 4.80		-				
FS-36 (2')	4/1/2020	2	13.1	B	< 0.00104		< 0.00522		< 0.00261		< 0.00678		-	0.377		835		844		1679				
FS-36 (4')*	4/9/2020	4	< 23.6		< 0.00118		< 0.00591		< 0.00295		< 0.00768		-	< 0.118		< 4.73		7.03		7.03				
FS-37 (2')	4/1/2020	2	4.31	B J	< 0.00849		< 0.0424		0.0335		0.797		0.831	289		4560		2140		6989				
FS-37 (4')*	4/9/2020	4	< 21.0		< 0.00105		< 0.00525		< 0.00263		< 0.00683		-	0.0670	B J	< 4.20		< 4.20		0.0670				
FS-38 (0.5')	4/1/2020	0.5	96.5		< 0.00102		< 0.00509		< 0.00255		< 0.00662		-	< 0.102		943		1230		2173				
FS-38 (1')*	4/8/2020	1	< 20.5	B J	< 0.00103		< 0.00513		< 0.00257		< 0.00667		-	0.101	B J	4.00	J	6.31	B	10.4				
FS-38 (1.5')*	4/8/2020	1.5	< 20.7	B J	< 0.00104		< 0.00518		< 0.00259		< 0.00674		-	0.0754	B J	2.01	J	3.33	B J	5.42				
FS-39 (0.5')	4/1/2020	0.5	17.4	B	< 0.00101		< 0.00506		< 0.00253		< 0.00657		-	< 0.101		231		413		644				
FS-39 (1')*	4/8/2020	1	< 20.4	B J	< 0.00102		< 0.00511		< 0.00255		< 0.00664		-	0.0793	B J	2.27	J	5.03	B	7.38				
FS-39 (1.5')*	4/8/2020	1.5	< 20.5	B J	< 0.00102		< 0.00512		< 0.00256		< 0.00666		-	0.0653	B J	< 4.10		1.41	B J	1.48				
FS-40 (4')	4/16/2020	4	340		< 0.00108		< 0.00541		< 0.00271		< 0.00704		-	< 0.108		4.29	J	3.55	J	7.84				

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING
CONOCOPHILLIPS
BAISH A BATTERY RELEASE
1RP-5641
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)		
														C ₃ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₄₀				
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg			
NSW-1	3/20/2020	Sidewall	< 10.4		< 0.00104		< 0.00518		< 0.00259		< 0.00673		-	< 0.104		< 4.14		1.13	J	1.13		
NSW-2	3/20/2020	Sidewall	11.2	B	< 0.00102		< 0.00509		< 0.00255		< 0.00662		-	< 0.102		17.0		43.4		60.4		
NSW-3	3/20/2020	Sidewall	2.01	B J	< 0.00103		< 0.00515		< 0.00257		< 0.00669		-	< 0.103		< 4.12		1.16	J	1.16		
NSW-4	4/1/2020	Sidewall	114		< 0.00109		< 0.00546		< 0.00273		< 0.00710		-	< 0.109		< 4.37		5.18		5.18		
NSW-5	4/1/2020	Sidewall	39.6		< 0.00100		< 0.00501		< 0.00250		< 0.00651		-	< 0.100		< 4.01		4.11		4.11		
NSW-6	4/1/2020	Sidewall	246		< 0.00102		< 0.00508		< 0.00254		< 0.00660		-	< 0.102		133		337		470		
NSW-6 (1')*	4/9/2020	Sidewall	202		< 0.00100		< 0.00502		< 0.00251		< 0.00652		-	< 0.100		4.18		2.88	J	7.06		
NSW-7	4/1/2020	Sidewall	131		< 0.00101		< 0.00505		< 0.00253		< 0.00657		-	0.0495	B J	< 4.04		2.87	J	2.92		
NSW-8	4/1/2020	Sidewall	132		< 0.00101		< 0.00506		< 0.00253		< 0.00658		-	< 0.101		460		641		1101		
NSW-8 (2')*	4/9/2020	Sidewall	137		< 0.00102		< 0.00512		< 0.00256		< 0.00666		-	< 0.103		1.82	J	1.91	J	3.73		
NSW-9	4/1/2020	Sidewall	32.7		< 0.00102		< 0.00508		< 0.00254		< 0.00661		-	0.0381	B J	46.7		93.2		140		
NSW-9 (3')*	4/9/2020	Sidewall	23.5		< 0.00112		< 0.00559		< 0.00279		< 0.00726		-	< 0.112		45.6		132		178		
NSW-9 (6')*	4/9/2020	Sidewall	218		0.000873	J	0.00311	J	< 0.00301		< 0.00782		0.00398	< 0.120		3.43	J	3.5	J	6.93		
NSW-10	3/27/2020	Sidewall	207		< 0.00101		< 0.00503		< 0.00251		< 0.00654		-	< 0.101		181		412		593		
NSW-10 (10')*	4/9/2020	Sidewall	< 22.3		< 0.00112		< 0.00559		< 0.00279		< 0.00726		-	< 0.112		2.20	J	2.93	J	5.13		
NSW-11	3/27/2020	Sidewall	66.5		< 0.00101		< 0.00506		< 0.00253		< 0.00658		-	< 0.101		166		331		497		
NSW-11 (10')*	4/9/2020	Sidewall	14.6	J	< 0.00100		< 0.00501		< 0.00250		< 0.00651		-	< 0.100		< 4.01		2.27	J	2.27		
NSW-12	3/27/2020	Sidewall	42.0		< 0.00116		< 0.00579		< 0.00289		< 0.00753		-	< 0.116		25.1	J	66.6		91.7		
NSW-13	4/1/2020	Sidewall	1.49	B J	< 0.00103		< 0.00513		< 0.00256		< 0.00667		-	0.0393	B J	10.2		34.4		44.6		
NSW-14	4/1/2020	Sidewall	2.01	B J	< 0.00109		0.00238	J	< 0.00273		0.166		0.168	46.8		4300		1980		6327		
NSW-14 (1')*	4/9/2020	Sidewall	< 23.4		< 0.00117		< 0.00585		< 0.00292		< 0.00760		-	< 0.117		9.56		26.2		35.8		
Σ																						
ESW-1	4/1/2020	Sidewall	6.89	B J	< 0.00103		< 0.00516		< 0.00258		< 0.00671		-	< 0.103		2.89	J	2.86	J	5.75		
ESW-2	4/1/2020	Sidewall	1.63	B J	< 0.00103		< 0.00515		< 0.00257		< 0.00669		-	< 0.103		2.24	J	6.85		9.09		
ESW-3	4/1/2020	Sidewall	1.84	B J	< 0.00101		< 0.00505		< 0.00253		< 0.00657		-	< 0.101		< 4.04		4.31		4.31		

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING
CONOCOPHILLIPS
BAISH A BATTERY RELEASE
1RP-5641
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)		
														C ₃ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₄₀				
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg			
SSW-1	3/20/2020	Sidewall	8.50	B J	0.000462	J	< 0.00577		0.000981	J	0.00591	J	0.00735	< 0.115		65.9		202		268		
SSW-1 (1')*	4/1/2020	Sidewall	2.22	B J	0.000439	J	< 0.00516		0.000697	J	0.00762		0.00876	0.0697	B J	229		466		695		
SSW-1 (2')*	4/1/2020	Sidewall	< 20.1		< 0.00100		< 0.00502		< 0.00251		< 0.00653		-	< 0.100		< 4.02		1.68	J	1.68		
SSW-2	3/20/2020	Sidewall	47.9		< 0.00101		< 0.00506		< 0.00253		< 0.00658		-	< 0.101		3.57	J	9.75		13.3		
SSW-3	3/20/2020	Sidewall	17.6	B	< 0.00123		< 0.00613		< 0.00306		< 0.00797		-	< 0.123		< 4.90		1.17	J	1.17		
SSW-4	3/20/2020	Sidewall	6.58	B J	< 0.00104		< 0.00522		< 0.00261		< 0.00678		-	< 0.104		< 4.17		< 4.17		-		
SSW-5	3/20/2020	Sidewall	43.6		< 0.00118		< 0.00592		< 0.00296		< 0.00770		-	< 0.118		26.4	J	127		153		
SSW-5 (1')	4/1/2020	Sidewall	9.27	B J	0.000469	J	< 0.00521		< 0.00261		< 0.00678		0.000469	0.0584	B J	3.78	J	11.8		15.6		
SSW-6	3/20/2020	Sidewall	19.6		< 0.00101		< 0.00504		< 0.00252		< 0.00655		-	< 0.101		38.2	J	146		184		
SSW-6 (1')*	4/1/2020	Sidewall	74.5		< 0.00107		< 0.00533		< 0.00266		< 0.00693		-	< 0.107		14.4		43.3		57.7		
SSW-7	3/20/2020	Sidewall	58.9		< 0.00101		< 0.00506		< 0.00253		< 0.00658		-	< 0.101		20.2	J	103		123		
SSW-7 (1')*	4/1/2020	Sidewall	42.5		< 0.00101		< 0.00504		< 0.00252		< 0.00655		-	< 0.101		3.87	J	16.5		20.4		
SSW-8	3/20/2020	Sidewall	9.22	B J	< 0.00113		< 0.00565		< 0.00283		< 0.00735		-	< 0.113		982		1820		2802		
SSW-8 (2')*	4/1/2020	Sidewall	47.1		< 0.00105		< 0.00524		< 0.00262		< 0.00681		-	0.0787	B J	16.0		35.3		51.4		
SSW-9	3/20/2020	Sidewall	4.83	B J	< 0.00103		< 0.00517		< 0.00258		< 0.00672		-	< 0.103		2.13	J	9.53		11.7		
SSW-10	3/20/2020	Sidewall	4.64	B J	< 0.00107		< 0.00536		< 0.00268		< 0.00697		-	< 0.107		< 4.29		2.35	J	2.35		
SSW-11	3/20/2020	Sidewall	2.22	B J	< 0.00105		< 0.00524		< 0.00262		< 0.00681		-	< 0.105		6.70		16.0		22.7		
SSW-12	3/27/2020	Sidewall	2.44	B J	< 0.00101		< 0.00505		< 0.00252		< 0.00656		-	< 0.101		< 4.04		4.13	B	4.13		
SSW-13	3/27/2020	Sidewall	2.24	B J	< 0.00101		< 0.00503		< 0.00251		< 0.00653		-	< 0.101		< 4.02		2.68	B J	2.68		
SSW-14	3/27/2020	Sidewall	3.06	B J	< 0.00102		< 0.00510		< 0.00255		< 0.00663		-	< 0.102		10.8		36.9		47.7		
SSW-15	3/27/2020	Sidewall	2.03	B J	< 0.00102		< 0.00508		< 0.00254		< 0.00660		-	< 0.102		24.9		50.2		75.1		
SSW-16	3/27/2020	Sidewall	2.47	B J	< 0.00102		< 0.00509		< 0.00255		< 0.00662		-	< 0.102		110	J	331		441		
SSW-16 (1')*	4/3/2020	Sidewall	< 20.3		< 0.00101		< 0.00506		< 0.00253		< 0.00658		-	0.0247	B J	< 4.05		0.734	J	0.759		
SSW-17	3/27/2020	Sidewall	4.93	B J	< 0.00104		< 0.00522		< 0.00261		< 0.00678		-	< 0.104		85.4	J	308		393		
SSW-17 (1')*	4/3/2020	Sidewall	< 20.4		< 0.00102		< 0.00511		< 0.00255		< 0.00664		-	< 0.103		2.43	J	7.55		9.98		
SSW-18	3/27/2020	Sidewall	3.46	B J	< 0.00110		< 0.00549		< 0.00275		< 0.00714		-	< 0.110		99.9	J	383		483		
SSW-18 (1')*	4/3/2020	Sidewall	< 20.5		< 0.00103		< 0.00513		< 0.00256		< 0.00667		-	0.0301	B J	3.88	J	10.6		14.5		
SSW-19	3/27/2020	Sidewall	22.4		< 0.00114		< 0.00568		< 0.00284		< 0.00738		-	< 0.114		< 4.54		0.974	B J	0.974		
SSW-20	3/27/2020	Sidewall	8.29	B J	< 0.00110		< 0.00548		< 0.00274		< 0.00712		-	< 0.110		< 4.38		1.31	B J	1.31		
SSW-21	3/27/2020	Sidewall	3.15	B J	< 0.00809		< 0.0405		< 0.0202		< 0.0526		-	12.2		684		687		1383		
SSW-21 (1')*	4/3/2020	Sidewall	< 20.4		< 0.00102		< 0.00510		< 0.00255		< 0.00663		-	0.0247	B J	33.4	J	157		190		
SSW-21 (2')*	4/3/2020	Sidewall	< 20.3		< 0.00102		< 0.00508		< 0.00254		< 0.00660		-	0.0266	J	25.5		97.5		123		
SSW-21 (3')*	4/14/2020	Sidewall	< 20.3		< 0.00102		< 0.00509		< 0.00254		< 0.00661		-	< 0.102		15.5	J	52.1		67.6		
SSW-22	3/27/2020	Sidewall	5.26	B J	< 0.00104		< 0.00521		< 0.00260		< 0.00677		-	< 0.104		< 4.17		1.11	B J	1.11		
SSW-23	3/27/2020	Sidewall	1.86	B J	< 0.00105		< 0.00523		< 0.00261		< 0.00679		-	< 0.105		3.16	J	13.5		16.7		
SSW-24	4/1/2020	Sidewall	3.17	B J	< 0.00104		< 0.00522		< 0.00261		< 0.00679		-	< 0.104		6.01		9.84		15.9		

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING
CONOCOPHILLIPS
BAISH A BATTERY RELEASE
1RP-5641
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX	GRO ⁴		DRO		ORO		Total TPH (GRO+DRO+ORO)		
														C ₃ - C ₁₀		C ₁₀ - C ₂₈		C ₂₈ - C ₄₀				
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg			
WSW-1	3/20/2020	Sidewall	1.96	B J	< 0.00104		< 0.00519		< 0.00260		< 0.00675		-	0.0468	B J	< 4.15		2.87	J	2.92		
WSW-2	3/27/2020	Sidewall	114		< 0.00122		< 0.00608		< 0.00304		< 0.00790		-	< 0.122		< 4.86		0.375	J	0.375		
WSW-3	3/27/2020	Sidewall	35.7		< 0.00100		< 0.00502		< 0.00251		< 0.00652		-	< 0.100		< 4.01		1.09	J	1.09		
WSW-4	3/27/2020	Sidewall	25.2		< 0.00103		< 0.00513		< 0.00257		< 0.00667		-	0.0310	B J	< 4.10		1.02	J	1.05		
Σ																						
ISW-1	4/1/2020	Sidewall	26.2	B	< 0.00101		< 0.00507		< 0.00253		< 0.00659		-	< 0.101		< 4.05		0.358	J	0.358		
ISW-2	4/1/2020	Sidewall	51.4		< 0.00101		< 0.00506		< 0.00253		< 0.00658		-	< 0.101		209		423		632		
ISW-3	4/1/2020	Sidewall	290		< 0.00109		< 0.00543		< 0.00272		< 0.00706		-	< 0.109		1.93	J	1.23	J	3.16		
ISW-4	4/1/2020	Sidewall	325		< 0.00108		< 0.00542		< 0.00271		< 0.00705		-	< 0.108		2.22	J	0.544	J	2.76		
ISW-5	4/1/2020	Sidewall	60.8		< 0.00103		< 0.00515		< 0.00257		< 0.00669		-	< 0.103		86.9		295		382		
ISW-6	4/1/2020	Sidewall	41.4		< 0.00103		< 0.00514		< 0.00257		< 0.00697		-	< 0.103		< 4.12		< 4.12		-		
ISW-7	4/1/2020	Sidewall	59.7		< 0.00103		< 0.00514		< 0.00257		< 0.00668		-	< 0.103		1.82	J	0.542	J	2.36		
ISW-8	4/1/2020	Sidewall	27.5	B	< 0.00104		< 0.00522		< 0.00261		< 0.00679		-	< 0.104		< 4.18		< 4.18		-		
ISW-9	4/1/2020	Sidewall	13.0	B	< 0.00105		< 0.00526		< 0.00263		< 0.00683		-	< 0.105		< 4.21		< 4.21		-		
ISW-10	4/1/2020	Sidewall	57.3		< 0.00106		< 0.00530		< 0.00265		< 0.00689		-	< 0.106		4.57		2.42	J	6.99		
ISW-11	4/1/2020	Sidewall	41.3		< 0.00103		< 0.00517		< 0.00258		< 0.00672		-	< 0.103		< 4.13		< 4.13		-		
ISW-12	4/1/2020	Sidewall	120		< 0.00104		< 0.00521		< 0.00260		< 0.00677		-	< 0.104		96.3		204		300		
ISW-13	4/1/2020	Sidewall	3.10	B J	< 0.00104		< 0.00520		< 0.00260		< 0.00676		-	0.0481	B J	< 4.16		0.403	J	0.451		
ISW-14	4/1/2020	Sidewall	62.3	B J	< 0.00101		< 0.00507		< 0.00254		< 0.00659		-	0.0444	B J	< 4.06		< 4.06		0.0444		
ISW-15	4/1/2020	Sidewall	150	B J	< 0.00106		< 0.00531		< 0.00265		< 0.00690		-	0.0546	B J	33.0		66.4		99.5		

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

HOLD Hold on sample analysis

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

ORO Oil range organics

Bold and italicized values indicate exceedance of proposed RRLs

Gold highlight represents soil horizons that were removed during deepening of excavation floors.

Green highlight represents soil intervals that were removed during horizontal expansion of excavation sidewalls.

* These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().

1 EPA Method 300.0

2 EPA Method 8260B

3 EPA Method 8015

4 EPA Method 8015D/GRO

QUALIFIERS:

B The same analyte is found in the associated blank.

J The identification of the analyte is acceptable; the reported value is an estimate.

J3 The associated batch QC was outside the established quality control range for precision.

P1 RPD value not applicable for sample concentrations less than 5 times the reporting limit.

APPENDIX A C-141 Forms

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NJEG1922759656
District RP	1RP-5641
Facility ID	fJEG1922759200
Application ID	pJEG1922758212

Release Notification

Responsible Party

Responsible Party ConocoPhillips Company	OGRID 217817
Contact Name Gustavo Fejevary	Contact Telephone 432/210-7037
Contact email g.fejevary@cop.com	Incident # (assigned by OCD)
Contact mailing address 3300 N A ST. Midland Texas 79705	

Location of Release Source

Latitude 32.822975 Longitude -103.764358
(NAD 83 in decimal degrees to 5 decimal places)

Site Name BAISH A	Site Type TANK BATTERY
Date Release Discovered 6/19/19	API# (if applicable)

Unit Letter	Section	Township	Range	County
H	21	17S	32E	lea

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 3	Volume Recovered (bbls) 0
☐ Produced Water	Volume Released (bbls) 3.62	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Dump valve had malfunctioned on the heater treater.

Form C-141

Page 2

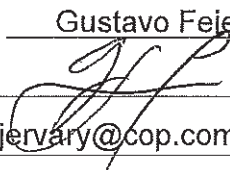
State of New Mexico
Oil Conservation Division

Incident ID	nJEG1922759656
District RP	1RP-5641
Facility ID	fJEG1922759200
Application ID	pJEG1922758212

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☐ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: Due to the small volume we were not able to recover any fluid. However, the site will be remediated according to the NMOCD Requirements.	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Gustavo Fejevary</u>	Title: <u>Environmental Coordinator</u>
Signature: 	Date: <u>7/3/19</u>
email: <u>g.fejevary@cop.com</u>	Telephone: <u>432/210-7037</u>
<u>OCD Only</u>	
Received by: <u>Jim Griswold</u>	Date: <u>7/22/19</u>

Incident ID	nJEG1922759656
District RP	1RP-5641
Facility ID	fJEG1922759200
Application ID	pJEG1922758212

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

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

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

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

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

Oil Conservation Division

Incident ID	nJEG1922759656
District RP	1RP-5641
Facility ID	fJEG1922759200
Application ID	pJEG1922758212

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

Printed Name: Jenni Fortunato

Title: Program Manager, Risk Management & Remediation

Signature: 

Date: 11.14.19

email: Jenni.Fortunato@cop.com

Telephone: 832-486-2477

OCD Only

Received by: _____

Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

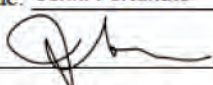
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

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

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

Printed Name: Jenni Fortunato

Title: Program Manager, Risk Management & Remediation

Signature: 

Date: 11.14.19

email: Jenni.Fortunato@cop.com

Telephone: 832-486-2477

OCD Only

Received by: Robert Hamlet

Date: 1/10/2020

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

Date: 1/10/2020

Incident ID	NJEG1922759656
District RP	1RP-5641
Facility ID	fJEG1922759200
Application ID	pJEG1922758212

Closure

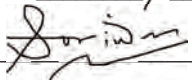
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Marvin Soriwei Title: Program Manager, Risk Management & Remediation

Signature:  Date: 6/16/2020

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

APPENDIX B

NMOSE Groundwater Data/Karst Potential Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 12521 POD1	RA	LE		3	3	4	21	17S	32E	615127	3631271	105	92	13
RA 12522 POD1	RA	LE		3	3	4	21	17S	32E	614941	3631122	100		

Average Depth to Water: **92 feet**

Minimum Depth: **92 feet**

Maximum Depth: **92 feet**

Record Count: 2

Basin/County Search:

County: Lea

PLSS Search:

Section(s): 21

Township: 17S

Range: 32E

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.

1RP-5641

ConocoPhillips
Baish "A" Battery
Cave Karst Potential Map

Legend

-  Baish "A" Battery 32.822975, -103.764358
-  High
-  Low
-  Medium

31

Hwy 82
Maljamar

 Baish "A" Battery 32.822975, -103.764358

muda Rd

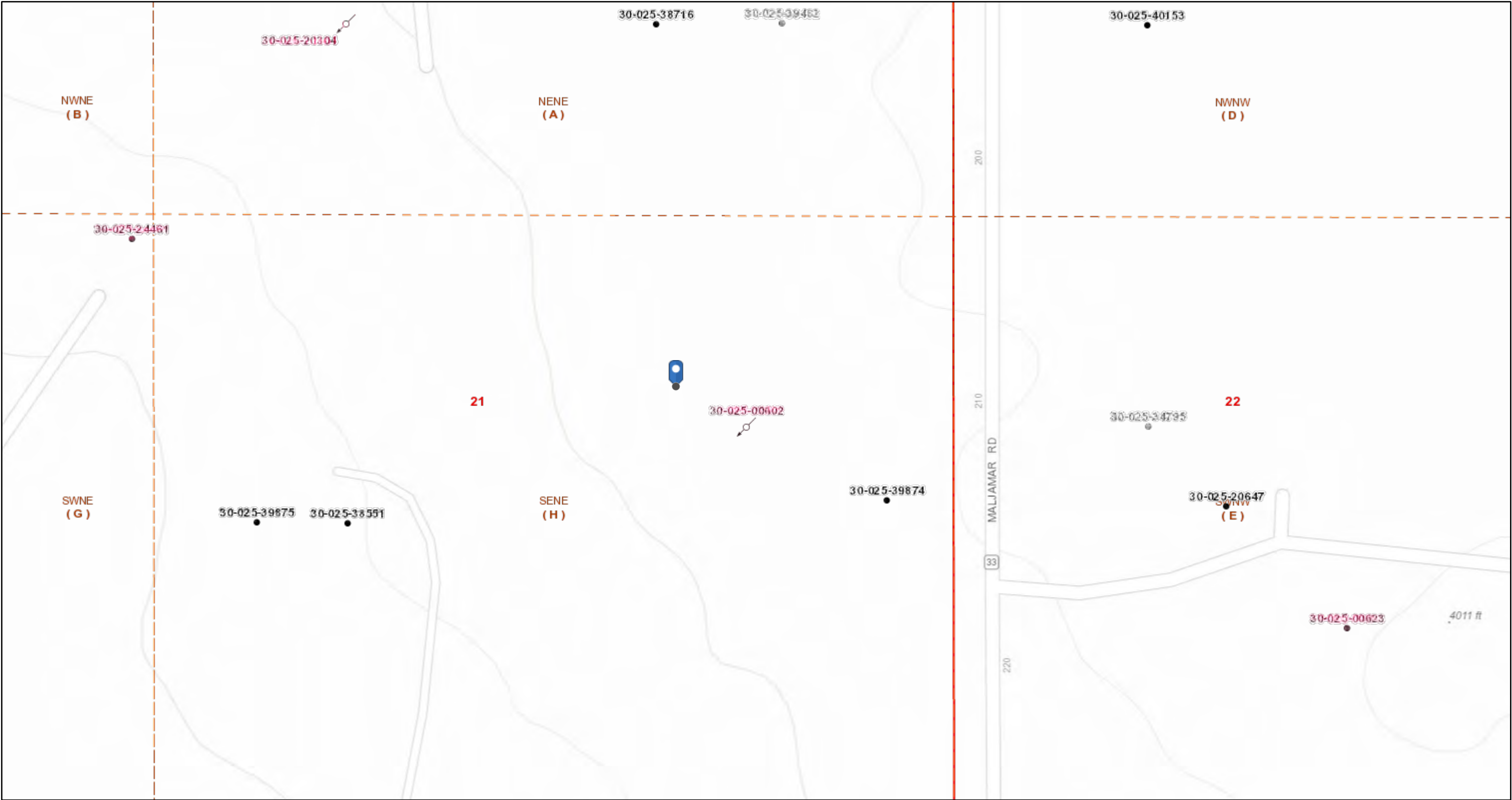
529

Google Earth



2 mi

Baish "A" Battery



10/31/2019, 2:41:33 PM

Well Locations - Small Scale

- Active
- New
- Plugged
- Cancelled
- Temporarily Abandoned

Well Locations - Large Scale

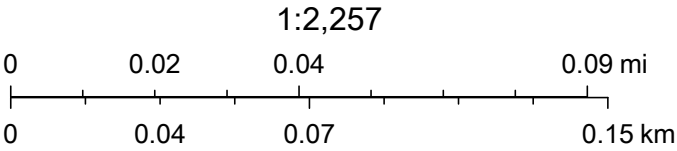
- Miscellaneous
- CO2 Active
- CO2 Cancelled
- CO2 New
- CO2, Plugged
- CO2, Temporarily Abandoned

- Gas Active
- Gas, Cancelled, Never Drilled
- Gas, New
- Gas, Plugged
- Gas, Temporarily Abandoned
- Injection, Active

- Injection, Cancelled
- Injection, New
- Injection, Plugged
- Injection, Temporarily Abandoned
- Oil, Active
- Oil, Cancelled

- Oil, New
- Oil, Plugged
- Oil, Temporarily Abandoned
- Salt Water Injection, Active
- Salt Water Injection, Cancelled
- Salt Water Injection, New

- Salt Water Injection, Plugged
- Salt Water InjectionTemporarily Abandoned
- Water, Active
- Water, Cancelled
- Water, New
- Water, Plugged



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, OCD,

APPENDIX C

Laboratory Analytical Data



ANALYTICAL REPORT

March 27, 2020

ConocoPhillips - Tetra Tech

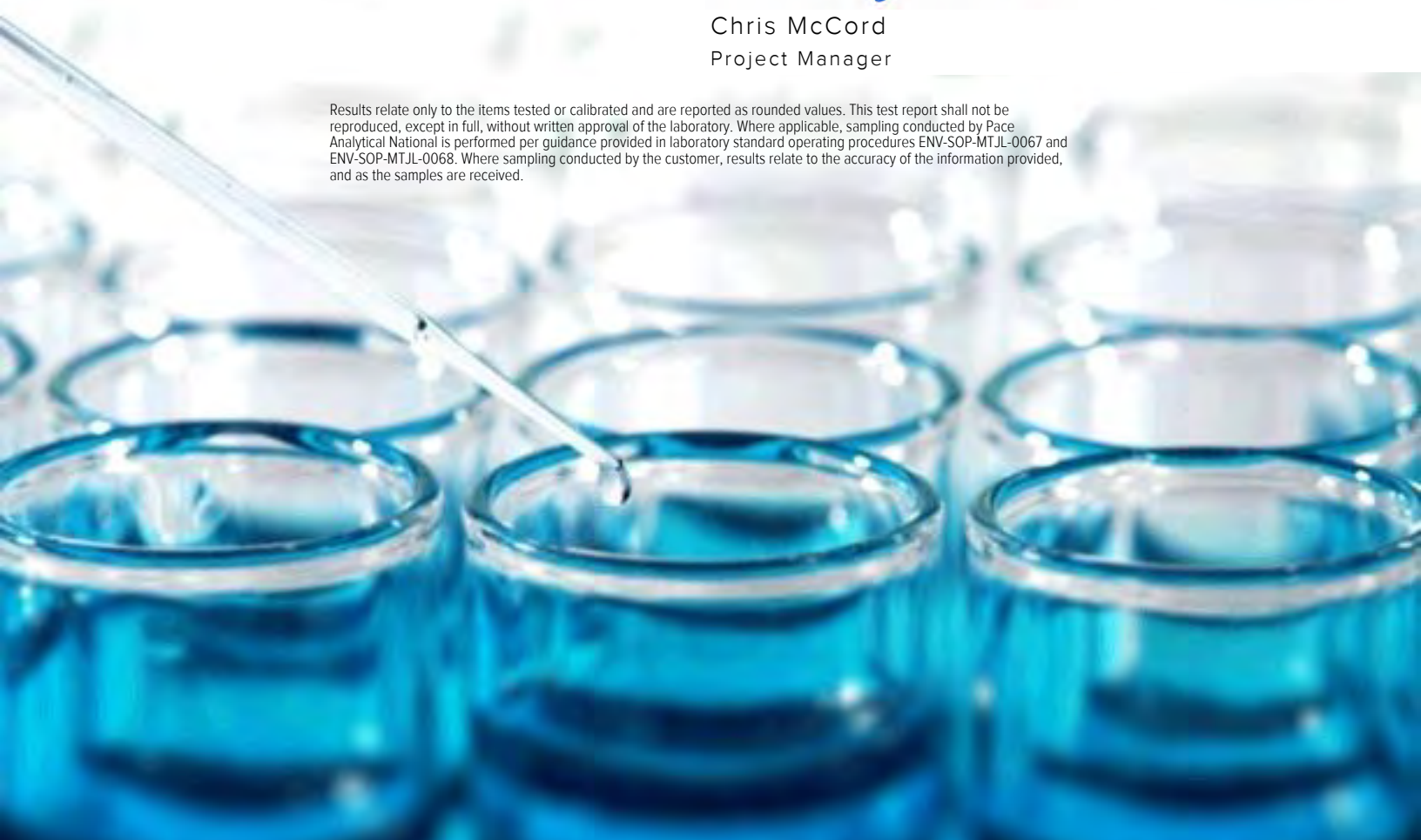
Sample Delivery Group: L1202213
Samples Received: 03/24/2020
Project Number: 212C-MD-02120
Description: COP Baish A Battery

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

Entire Report Reviewed By:

Chris McCord
Project Manager

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



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

SSW-1 L1202213-01 Solid

Collected by
Collected date/time
Received date/time

03/20/20 13:30 03/24/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449726	1	03/25/20 13:52	03/25/20 14:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/25/20 23:59	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 13:30	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 09:05	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	10	03/25/20 16:00	03/26/20 16:32	CLG	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn

SSW-2 L1202213-02 Solid

Collected by
Collected date/time
Received date/time

03/20/20 13:40 03/24/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449726	1	03/25/20 13:52	03/25/20 14:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 00:17	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 13:54	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 09:26	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 14:11	FM	Mt. Juliet, TN

⁵ Sr⁶ Qc⁷ Gl⁸ Al

SSW-3 L1202213-03 Solid

Collected by
Collected date/time
Received date/time

03/20/20 13:50 03/24/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449726	1	03/25/20 13:52	03/25/20 14:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 00:36	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1451030	1	03/24/20 23:59	03/26/20 22:45	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 09:46	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 13:59	FM	Mt. Juliet, TN

⁹ Sc

SSW-4 L1202213-04 Solid

Collected by
Collected date/time
Received date/time

03/20/20 14:00 03/24/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449726	1	03/25/20 13:52	03/25/20 14:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 01:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 15:05	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 10:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 12:30	FM	Mt. Juliet, TN

SSW-5 L1202213-05 Solid

Collected by
Collected date/time
Received date/time

03/20/20 14:10 03/24/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449726	1	03/25/20 13:52	03/25/20 14:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 01:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 15:29	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 10:26	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	10	03/25/20 16:00	03/26/20 16:44	CLG	Mt. Juliet, TN

SSW-6 L1202213-06 Solid

				Collected by	Collected date/time	Received date/time
					03/20/20 14:20	03/24/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449726	1	03/25/20 13:52	03/25/20 14:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 02:08	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 15:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 10:47	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	10	03/25/20 16:00	03/26/20 16:57	CLG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

SSW-7 L1202213-07 Solid

				Collected by	Collected date/time	Received date/time
					03/20/20 14:30	03/24/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449726	1	03/25/20 13:52	03/25/20 14:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 02:26	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 16:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 11:07	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	10	03/25/20 16:00	03/26/20 17:09	CLG	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

SSW-8 L1202213-08 Solid

				Collected by	Collected date/time	Received date/time
					03/20/20 14:40	03/24/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449726	1	03/25/20 13:52	03/25/20 14:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 02:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 16:40	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 11:27	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	50	03/25/20 16:00	03/26/20 17:22	CLG	Mt. Juliet, TN

9 Sc

SSW-9 L1202213-09 Solid

				Collected by	Collected date/time	Received date/time
					03/20/20 14:50	03/24/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449726	1	03/25/20 13:52	03/25/20 14:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 03:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 17:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 11:48	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 14:24	FM	Mt. Juliet, TN

SSW-10 L1202213-10 Solid

				Collected by	Collected date/time	Received date/time
					03/20/20 15:00	03/24/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449727	1	03/25/20 13:42	03/25/20 13:51	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 03:21	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 17:39	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 12:08	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 12:42	FM	Mt. Juliet, TN

SSW-11 L1202213-11 Solid

Collected by
Collected date/time
Received date/time

03/20/20 15:10 03/24/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449727	1	03/25/20 13:42	03/25/20 13:51	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 03:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 18:03	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 12:28	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 14:37	FM	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

NSW-1 L1202213-12 Solid

Collected by
Collected date/time
Received date/time

03/20/20 12:00 03/24/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449727	1	03/25/20 13:42	03/25/20 13:51	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 03:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 18:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 12:48	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 12:55	FM	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

NSW-2 L1202213-13 Solid

Collected by
Collected date/time
Received date/time

03/20/20 12:10 03/24/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449727	1	03/25/20 13:42	03/25/20 13:51	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 04:17	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 18:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 13:09	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 14:49	FM	Mt. Juliet, TN

⁹ Sc

NSW-3 L1202213-14 Solid

Collected by
Collected date/time
Received date/time

03/20/20 12:20 03/24/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449727	1	03/25/20 13:42	03/25/20 13:51	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 05:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 19:14	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 13:29	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 13:08	FM	Mt. Juliet, TN

FS-1 (4') L1202213-15 Solid

Collected by
Collected date/time
Received date/time

03/20/20 13:00 03/24/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449727	1	03/25/20 13:42	03/25/20 13:51	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 05:30	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 19:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 13:49	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 13:20	FM	Mt. Juliet, TN

FS-2 (4') L1202213-16 Solid

				Collected by	Collected date/time	Received date/time
					03/20/20 13:10	03/24/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449727	1	03/25/20 13:42	03/25/20 13:51	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 05:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 20:24	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 14:09	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 16:19	CLG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

FS-3 (4') L1202213-17 Solid

				Collected by	Collected date/time	Received date/time
					03/20/20 13:20	03/24/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449727	1	03/25/20 13:42	03/25/20 13:51	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 06:07	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1449850	1	03/24/20 23:59	03/25/20 21:11	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 14:29	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 13:33	FM	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

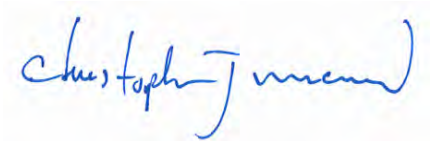
8 Al

WSW-1 L1202213-18 Solid

				Collected by	Collected date/time	Received date/time
					03/20/20 12:30	03/24/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1449727	1	03/25/20 13:42	03/25/20 13:51	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1449859	1	03/25/20 19:40	03/26/20 06:25	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1450011	1	03/24/20 23:59	03/25/20 23:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1449835	1	03/24/20 23:59	03/25/20 14:50	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1450109	1	03/25/20 16:00	03/26/20 13:46	FM	Mt. Juliet, TN

9 Sc

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



Chris McCord
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Collected date/time: 03/20/20 13:30

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.6		1	03/25/2020 14:01	WG1449726

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	8.50	B J	0.918	11.5	1	03/25/2020 23:59	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0251	0.115	1	03/25/2020 13:30	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		03/25/2020 13:30	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000462	J	0.000462	0.00115	1	03/25/2020 09:05	WG1449835
Toluene	U		0.00144	0.00577	1	03/25/2020 09:05	WG1449835
Ethylbenzene	0.000981	J	0.000612	0.00289	1	03/25/2020 09:05	WG1449835
Total Xylenes	0.00591	J	0.00552	0.00750	1	03/25/2020 09:05	WG1449835
(S) Toluene-d8	109			75.0-131		03/25/2020 09:05	WG1449835
(S) 4-Bromofluorobenzene	104			67.0-138		03/25/2020 09:05	WG1449835
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		03/25/2020 09:05	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	65.9		18.6	46.2	10	03/26/2020 16:32	WG1450109
C28-C40 Oil Range	202		3.16	46.2	10	03/26/2020 16:32	WG1450109
(S) o-Terphenyl	55.6			18.0-148		03/26/2020 16:32	WG1450109

Collected date/time: 03/20/20 13:40

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.7		1	03/25/2020 14:01	WG1449726

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	47.9		0.805	10.1	1	03/26/2020 00:17	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	03/25/2020 13:54	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	99.6			77.0-120		03/25/2020 13:54	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000405	0.00101	1	03/25/2020 09:26	WG1449835
Toluene	U		0.00127	0.00506	1	03/25/2020 09:26	WG1449835
Ethylbenzene	U		0.000537	0.00253	1	03/25/2020 09:26	WG1449835
Total Xylenes	U		0.00484	0.00658	1	03/25/2020 09:26	WG1449835
(S) Toluene-d8	112			75.0-131		03/25/2020 09:26	WG1449835
(S) 4-Bromofluorobenzene	110			67.0-138		03/25/2020 09:26	WG1449835
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/25/2020 09:26	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.57	J	1.63	4.05	1	03/26/2020 14:11	WG1450109
C28-C40 Oil Range	9.75		0.278	4.05	1	03/26/2020 14:11	WG1450109
(S) o-Terphenyl	59.7			18.0-148		03/26/2020 14:11	WG1450109

Collected date/time: 03/20/20 13:50

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.6		1	03/25/2020 14:01	WG1449726

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	17.6	<u>B</u>	0.975	12.3	1	03/26/2020 00:36	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0266	0.123	1	03/26/2020 22:45	WG1451030
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		03/26/2020 22:45	WG1451030

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000490	0.00123	1	03/25/2020 09:46	WG1449835
Toluene	U		0.00153	0.00613	1	03/25/2020 09:46	WG1449835
Ethylbenzene	U		0.000650	0.00306	1	03/25/2020 09:46	WG1449835
Total Xylenes	U		0.00586	0.00797	1	03/25/2020 09:46	WG1449835
(S) Toluene-d8	112			75.0-131		03/25/2020 09:46	WG1449835
(S) 4-Bromofluorobenzene	105			67.0-138		03/25/2020 09:46	WG1449835
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		03/25/2020 09:46	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.97	4.90	1	03/26/2020 13:59	WG1450109
C28-C40 Oil Range	1.17	<u>J</u>	0.336	4.90	1	03/26/2020 13:59	WG1450109
(S) o-Terphenyl	62.0			18.0-148		03/26/2020 13:59	WG1450109

Collected date/time: 03/20/20 14:00

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.8		1	03/25/2020 14:01	WG1449726

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	6.58	B J	0.829	10.4	1	03/26/2020 01:31	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	03/25/2020 15:05	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		03/25/2020 15:05	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000417	0.00104	1	03/25/2020 10:06	WG1449835
Toluene	U		0.00130	0.00522	1	03/25/2020 10:06	WG1449835
Ethylbenzene	U		0.000553	0.00261	1	03/25/2020 10:06	WG1449835
Total Xylenes	U		0.00499	0.00678	1	03/25/2020 10:06	WG1449835
(S) Toluene-d8	108			75.0-131		03/25/2020 10:06	WG1449835
(S) 4-Bromofluorobenzene	107			67.0-138		03/25/2020 10:06	WG1449835
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/25/2020 10:06	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.68	4.17	1	03/26/2020 12:30	WG1450109
C28-C40 Oil Range	U		0.286	4.17	1	03/26/2020 12:30	WG1450109
(S) o-Terphenyl	59.3			18.0-148		03/26/2020 12:30	WG1450109

Collected date/time: 03/20/20 14:10

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.5		1	03/25/2020 14:01	WG1449726

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	43.6		0.941	11.8	1	03/26/2020 01:49	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0257	0.118	1	03/25/2020 15:29	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/25/2020 15:29	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000474	0.00118	1	03/25/2020 10:26	WG1449835
Toluene	U		0.00148	0.00592	1	03/25/2020 10:26	WG1449835
Ethylbenzene	U		0.000627	0.00296	1	03/25/2020 10:26	WG1449835
Total Xylenes	U		0.00566	0.00770	1	03/25/2020 10:26	WG1449835
(S) Toluene-d8	110			75.0-131		03/25/2020 10:26	WG1449835
(S) 4-Bromofluorobenzene	108			67.0-138		03/25/2020 10:26	WG1449835
(S) 1,2-Dichloroethane-d4	98.3			70.0-130		03/25/2020 10:26	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	26.4	J	19.1	47.4	10	03/26/2020 16:44	WG1450109
C28-C40 Oil Range	127		3.24	47.4	10	03/26/2020 16:44	WG1450109
(S) o-Terphenyl	53.7			18.0-148		03/26/2020 16:44	WG1450109

Sample Narrative:

L1202213-05 WG1450109: Cannot run at lower dilution due to viscosity of extract

Collected date/time: 03/20/20 14:20

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.2		1	03/25/2020 14:01	WG1449726

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	19.6	<u>B</u>	0.802	10.1	1	03/26/2020 02:08	WG1449859

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	03/25/2020 15:53	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		03/25/2020 15:53	WG1449850

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

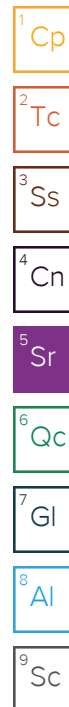
Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000403	0.00101	1	03/25/2020 10:47	WG1449835
Toluene	U		0.00126	0.00504	1	03/25/2020 10:47	WG1449835
Ethylbenzene	U		0.000534	0.00252	1	03/25/2020 10:47	WG1449835
Total Xylenes	U		0.00482	0.00655	1	03/25/2020 10:47	WG1449835
(S) Toluene-d8	109			75.0-131		03/25/2020 10:47	WG1449835
(S) 4-Bromofluorobenzene	111			67.0-138		03/25/2020 10:47	WG1449835
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/25/2020 10:47	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	38.2	<u>J</u>	16.2	40.3	10	03/26/2020 16:57	WG1450109
C28-C40 Oil Range	146		2.76	40.3	10	03/26/2020 16:57	WG1450109
(S) o-Terphenyl	71.8			18.0-148		03/26/2020 16:57	WG1450109

Sample Narrative:

L1202213-06 WG1450109: Cannot run at lower dilution due to viscosity of extract



Collected date/time: 03/20/20 14:30

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.9		1	03/25/2020 14:01	WG1449726

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	mg/kg		mg/kg	mg/kg			
Chloride	58.9		0.804	10.1	1	03/26/2020 02:26	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	03/25/2020 16:16	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		03/25/2020 16:16	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Benzene	U		0.000405	0.00101	1	03/25/2020 11:07	WG1449835
Toluene	U		0.00126	0.00506	1	03/25/2020 11:07	WG1449835
Ethylbenzene	U		0.000536	0.00253	1	03/25/2020 11:07	WG1449835
Total Xylenes	U		0.00484	0.00658	1	03/25/2020 11:07	WG1449835
(S) Toluene-d8	108			75.0-131		03/25/2020 11:07	WG1449835
(S) 4-Bromofluorobenzene	107			67.0-138		03/25/2020 11:07	WG1449835
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/25/2020 11:07	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	20.2	J	16.3	40.5	10	03/26/2020 17:09	WG1450109
C28-C40 Oil Range	103		2.77	40.5	10	03/26/2020 17:09	WG1450109
(S) o-Terphenyl	73.8			18.0-148		03/26/2020 17:09	WG1450109

Sample Narrative:

L1202213-07 WG1450109: Cannot run at lower dilution due to viscosity of extract

Collected date/time: 03/20/20 14:40

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.5		1	03/25/2020 14:01	WG1449726

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	9.22	B J	0.898	11.3	1	03/26/2020 02:44	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0245	0.113	1	03/25/2020 16:40	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		03/25/2020 16:40	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000452	0.00113	1	03/25/2020 11:27	WG1449835
Toluene	U		0.00141	0.00565	1	03/25/2020 11:27	WG1449835
Ethylbenzene	U		0.000599	0.00283	1	03/25/2020 11:27	WG1449835
Total Xylenes	U		0.00540	0.00735	1	03/25/2020 11:27	WG1449835
(S) Toluene-d8	110			75.0-131		03/25/2020 11:27	WG1449835
(S) 4-Bromofluorobenzene	107			67.0-138		03/25/2020 11:27	WG1449835
(S) 1,2-Dichloroethane-d4	94.6			70.0-130		03/25/2020 11:27	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	982		91.0	226	50	03/26/2020 17:22	WG1450109
C28-C40 Oil Range	1820		15.5	226	50	03/26/2020 17:22	WG1450109
(S) o-Terphenyl	0.000	J7		18.0-148		03/26/2020 17:22	WG1450109

Collected date/time: 03/20/20 14:50

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	03/25/2020 14:01	WG1449726

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	4.83	B J	0.821	10.3	1	03/26/2020 03:03	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	03/25/2020 17:04	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/25/2020 17:04	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000413	0.00103	1	03/25/2020 11:48	WG1449835
Toluene	U		0.00129	0.00517	1	03/25/2020 11:48	WG1449835
Ethylbenzene	U		0.000548	0.00258	1	03/25/2020 11:48	WG1449835
Total Xylenes	U		0.00494	0.00672	1	03/25/2020 11:48	WG1449835
(S) Toluene-d8	111			75.0-131		03/25/2020 11:48	WG1449835
(S) 4-Bromofluorobenzene	108			67.0-138		03/25/2020 11:48	WG1449835
(S) 1,2-Dichloroethane-d4	97.4			70.0-130		03/25/2020 11:48	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.13	J	1.66	4.13	1	03/26/2020 14:24	WG1450109
C28-C40 Oil Range	9.53		0.283	4.13	1	03/26/2020 14:24	WG1450109
(S) o-Terphenyl	62.3			18.0-148		03/26/2020 14:24	WG1450109

Collected date/time: 03/20/20 15:00

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.2		1	03/25/2020 13:51	WG1449727

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	4.64	B J	0.853	10.7	1	03/26/2020 03:21	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0233	0.107	1	03/25/2020 17:39	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/25/2020 17:39	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000429	0.00107	1	03/25/2020 12:08	WG1449835
Toluene	U		0.00134	0.00536	1	03/25/2020 12:08	WG1449835
Ethylbenzene	U		0.000569	0.00268	1	03/25/2020 12:08	WG1449835
Total Xylenes	U		0.00513	0.00697	1	03/25/2020 12:08	WG1449835
(S) Toluene-d8	111			75.0-131		03/25/2020 12:08	WG1449835
(S) 4-Bromofluorobenzene	110			67.0-138		03/25/2020 12:08	WG1449835
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/25/2020 12:08	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.73	4.29	1	03/26/2020 12:42	WG1450109
C28-C40 Oil Range	2.35	J	0.294	4.29	1	03/26/2020 12:42	WG1450109
(S) o-Terphenyl	56.1			18.0-148		03/26/2020 12:42	WG1450109

Collected date/time: 03/20/20 15:10

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.4		1	03/25/2020 13:51	WG1449727

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	2.22	B J	0.833	10.5	1	03/26/2020 03:40	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1	03/25/2020 18:03	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	99.6			77.0-120		03/25/2020 18:03	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000419	0.00105	1	03/25/2020 12:28	WG1449835
Toluene	U		0.00131	0.00524	1	03/25/2020 12:28	WG1449835
Ethylbenzene	U		0.000555	0.00262	1	03/25/2020 12:28	WG1449835
Total Xylenes	U		0.00501	0.00681	1	03/25/2020 12:28	WG1449835
(S) Toluene-d8	110			75.0-131		03/25/2020 12:28	WG1449835
(S) 4-Bromofluorobenzene	108			67.0-138		03/25/2020 12:28	WG1449835
(S) 1,2-Dichloroethane-d4	97.2			70.0-130		03/25/2020 12:28	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.70		1.69	4.19	1	03/26/2020 14:37	WG1450109
C28-C40 Oil Range	16.0		0.287	4.19	1	03/26/2020 14:37	WG1450109
(S) o-Terphenyl	51.3			18.0-148		03/26/2020 14:37	WG1450109

Collected date/time: 03/20/20 12:00

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.5		1	03/25/2020 13:51	WG1449727

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	U		0.823	10.4	1	03/26/2020 03:58	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0225	0.104	1	03/25/2020 18:27	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/25/2020 18:27	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000414	0.00104	1	03/25/2020 12:48	WG1449835
Toluene	U		0.00129	0.00518	1	03/25/2020 12:48	WG1449835
Ethylbenzene	U		0.000549	0.00259	1	03/25/2020 12:48	WG1449835
Total Xylenes	U		0.00495	0.00673	1	03/25/2020 12:48	WG1449835
(S) Toluene-d8	111			75.0-131		03/25/2020 12:48	WG1449835
(S) 4-Bromofluorobenzene	107			67.0-138		03/25/2020 12:48	WG1449835
(S) 1,2-Dichloroethane-d4	102			70.0-130		03/25/2020 12:48	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.67	4.14	1	03/26/2020 12:55	WG1450109
C28-C40 Oil Range	1.13	J	0.284	4.14	1	03/26/2020 12:55	WG1450109
(S) o-Terphenyl	55.4			18.0-148		03/26/2020 12:55	WG1450109

Collected date/time: 03/20/20 12:10

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.2		1	03/25/2020 13:51	WG1449727

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	11.2	<u>B</u>	0.810	10.2	1	03/26/2020 04:17	WG1449859

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	03/25/2020 18:50	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		03/25/2020 18:50	WG1449850

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000407	0.00102	1	03/25/2020 13:09	WG1449835
Toluene	U		0.00127	0.00509	1	03/25/2020 13:09	WG1449835
Ethylbenzene	U		0.000540	0.00255	1	03/25/2020 13:09	WG1449835
Total Xylenes	U		0.00487	0.00662	1	03/25/2020 13:09	WG1449835
(S) Toluene-d8	113			75.0-131		03/25/2020 13:09	WG1449835
(S) 4-Bromofluorobenzene	108			67.0-138		03/25/2020 13:09	WG1449835
(S) 1,2-Dichloroethane-d4	100			70.0-130		03/25/2020 13:09	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	17.0		1.64	4.07	1	03/26/2020 14:49	WG1450109
C28-C40 Oil Range	43.4		0.279	4.07	1	03/26/2020 14:49	WG1450109
(S) o-Terphenyl	50.3			18.0-148		03/26/2020 14:49	WG1450109

Collected date/time: 03/20/20 12:20

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.1		1	03/25/2020 13:51	WG1449727

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	2.01	B J	0.819	10.3	1	03/26/2020 05:12	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	03/25/2020 19:14	WG1449850
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	101			77.0-120		03/25/2020 19:14	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000412	0.00103	1	03/25/2020 13:29	WG1449835
Toluene	U		0.00129	0.00515	1	03/25/2020 13:29	WG1449835
Ethylbenzene	U		0.000546	0.00257	1	03/25/2020 13:29	WG1449835
Total Xylenes	U		0.00492	0.00669	1	03/25/2020 13:29	WG1449835
(S) <i>Toluene-d8</i>	109			75.0-131		03/25/2020 13:29	WG1449835
(S) <i>4-Bromofluorobenzene</i>	105			67.0-138		03/25/2020 13:29	WG1449835
(S) <i>1,2-Dichloroethane-d4</i>	94.4			70.0-130		03/25/2020 13:29	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.12	1	03/26/2020 13:08	WG1450109
C28-C40 Oil Range	1.16	J	0.282	4.12	1	03/26/2020 13:08	WG1450109
(S) <i>o</i> -Terphenyl	59.9			18.0-148		03/26/2020 13:08	WG1450109

Collected date/time: 03/20/20 13:00

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.2		1	03/25/2020 13:51	WG1449727

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	52.0		0.818	10.3	1	03/26/2020 05:30	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	03/25/2020 19:38	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/25/2020 19:38	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000411	0.00103	1	03/25/2020 13:49	WG1449835
Toluene	U		0.00129	0.00514	1	03/25/2020 13:49	WG1449835
Ethylbenzene	U		0.000545	0.00257	1	03/25/2020 13:49	WG1449835
Total Xylenes	U		0.00492	0.00669	1	03/25/2020 13:49	WG1449835
(S) Toluene-d8	110			75.0-131		03/25/2020 13:49	WG1449835
(S) 4-Bromofluorobenzene	106			67.0-138		03/25/2020 13:49	WG1449835
(S) 1,2-Dichloroethane-d4	102			70.0-130		03/25/2020 13:49	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.11	1	03/26/2020 13:20	WG1450109
C28-C40 Oil Range	0.717	J	0.282	4.11	1	03/26/2020 13:20	WG1450109
(S) o-Terphenyl	57.4			18.0-148		03/26/2020 13:20	WG1450109

Collected date/time: 03/20/20 13:10

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.0		1	03/25/2020 13:51	WG1449727

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	43.5		0.958	12.0	1	03/26/2020 05:49	WG1449859

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0261	0.120	1	03/25/2020 20:24	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/25/2020 20:24	WG1449850

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000482	0.00120	1	03/25/2020 14:09	WG1449835
Toluene	U		0.00151	0.00602	1	03/25/2020 14:09	WG1449835
Ethylbenzene	U		0.000639	0.00301	1	03/25/2020 14:09	WG1449835
Total Xylenes	U		0.00576	0.00783	1	03/25/2020 14:09	WG1449835
(S) Toluene-d8	108			75.0-131		03/25/2020 14:09	WG1449835
(S) 4-Bromofluorobenzene	108			67.0-138		03/25/2020 14:09	WG1449835
(S) 1,2-Dichloroethane-d4	102			70.0-130		03/25/2020 14:09	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	177		1.94	4.82	1	03/26/2020 16:19	WG1450109
C28-C40 Oil Range	175		0.330	4.82	1	03/26/2020 16:19	WG1450109
(S) o-Terphenyl	40.2			18.0-148		03/26/2020 16:19	WG1450109

Collected date/time: 03/20/20 13:20

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	81.3		1	03/25/2020 13:51	WG1449727

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	19.6	<u>B</u>	0.978	12.3	1	03/26/2020 06:07	WG1449859

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0267	0.123	1	03/25/2020 21:11	WG1449850
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		03/25/2020 21:11	WG1449850

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000492	0.00123	1	03/25/2020 14:29	WG1449835
Toluene	U		0.00154	0.00615	1	03/25/2020 14:29	WG1449835
Ethylbenzene	U		0.000652	0.00308	1	03/25/2020 14:29	WG1449835
Total Xylenes	U		0.00588	0.00800	1	03/25/2020 14:29	WG1449835
(S) Toluene-d8	110			75.0-131		03/25/2020 14:29	WG1449835
(S) 4-Bromofluorobenzene	108			67.0-138		03/25/2020 14:29	WG1449835
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		03/25/2020 14:29	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.98	4.92	1	03/26/2020 13:33	WG1450109
C28-C40 Oil Range	U		0.337	4.92	1	03/26/2020 13:33	WG1450109
(S) o-Terphenyl	59.4			18.0-148		03/26/2020 13:33	WG1450109

Collected date/time: 03/20/20 12:30

L1202213

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.3		1	03/25/2020 13:51	WG1449727

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1.96	B J	0.825	10.4	1	03/26/2020 06:25	WG1449859

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0468	B J	0.0225	0.104	1	03/25/2020 23:58	WG1450011
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		03/25/2020 23:58	WG1450011

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000415	0.00104	1	03/25/2020 14:50	WG1449835
Toluene	U		0.00130	0.00519	1	03/25/2020 14:50	WG1449835
Ethylbenzene	U		0.000550	0.00260	1	03/25/2020 14:50	WG1449835
Total Xylenes	U		0.00496	0.00675	1	03/25/2020 14:50	WG1449835
(S) Toluene-d8	110			75.0-131		03/25/2020 14:50	WG1449835
(S) 4-Bromofluorobenzene	107			67.0-138		03/25/2020 14:50	WG1449835
(S) 1,2-Dichloroethane-d4	93.2			70.0-130		03/25/2020 14:50	WG1449835

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.67	4.15	1	03/26/2020 13:46	WG1450109
C28-C40 Oil Range	2.87	J	0.284	4.15	1	03/26/2020 13:46	WG1450109
(S) o-Terphenyl	62.1			18.0-148		03/26/2020 13:46	WG1450109

QUALITY CONTROL SUMMARY

Total Solids by Method 2540 G-2011

[L1202213-01,02,03,04,05,06,07,08,09](#)

Method Blank (MB)

(MB) R3512634-1 03/25/20 14:01

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1202213-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1202213-01 03/25/20 14:01 • (DUP) R3512634-3 03/25/20 14:01

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	86.6	87.8	1	1.34		10

Laboratory Control Sample (LCS)

(LCS) R3512634-2 03/25/20 14:01

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011 [L1202213-10,11,12,13,14,15,16,17,18](#)

Method Blank (MB)

(MB) R3512631-1 03/25/20 13:51

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

L1202213-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1202213-12 03/25/20 13:51 • (DUP) R3512631-3 03/25/20 13:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	96.5	96.8	1	0.270		10

Laboratory Control Sample (LCS)

(LCS) R3512631-2 03/25/20 13:51

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3512629-1 03/25/20 21:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	2.32	⬇	0.795	10.0

L1202171-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1202171-17 03/25/20 22:27 • (DUP) R3512629-3 03/25/20 22:45

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	114	109	1	4.61		20

L1202213-18 Original Sample (OS) • Duplicate (DUP)

(OS) L1202213-18 03/26/20 06:25 • (DUP) R3512629-6 03/26/20 06:44

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.96	1.62	1	18.8	⬇	20

Laboratory Control Sample (LCS)

(LCS) R3512629-2 03/25/20 21:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	210	105	90.0-110	

L1202171-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1202171-18 03/25/20 23:03 • (MS) R3512629-4 03/25/20 23:22 • (MSD) R3512629-5 03/25/20 23:40

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	3.70	552	538	110	107	1	80.0-120			2.65	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3512335-2 03/25/20 11:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3512335-1 03/25/20 10:23

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.71	104	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			111	77.0-120	

L1202033-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1202033-03 03/25/20 13:06 • (MS) R3512335-3 03/25/20 21:35 • (MSD) R3512335-4 03/25/20 21:59

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	138	ND	124	133	89.3	96.4	25	10.0-151			7.69	28
(S) a,a,a-Trifluorotoluene(FID)					109	109		77.0-120				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3512730-3 03/25/20 11:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0605	⌵	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3512730-2 03/25/20 10:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.28	114	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			109	77.0-120	

L1201599-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1201599-08 03/25/20 19:06 • (MS) R3512730-6 03/26/20 01:04 • (MSD) R3512730-5 03/26/20 00:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	63.2	ND	13.5	3.43	21.3	5.42	25	10.0-151		J3 J6	119	28
TPH (GC/FID) Low Fraction	63.2	ND	13.5	12.8	21.3	20.2	25	10.0-151			5.26	28
(S) a,a,a-Trifluorotoluene(FID)					96.3	108		77.0-120				
(S) a,a,a-Trifluorotoluene(FID)					96.3	96.3		77.0-120				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

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

L1202213-03

Method Blank (MB)

(MB) R3513081-2 03/26/20 21:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3513081-1 03/26/20 21:16

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.02	109	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			116	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3512994-3 03/25/20 06:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	110			75.0-131
(S) 4-Bromofluorobenzene	107			67.0-138
(S) 1,2-Dichloroethane-d4	105			70.0-130

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

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

(LCS) R3512994-1 03/25/20 05:38 • (LCSD) R3512994-2 03/25/20 05:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.0968	0.0938	77.4	75.0	70.0-123			3.15	20
Ethylbenzene	0.125	0.126	0.126	101	101	74.0-126			0.000	20
Toluene	0.125	0.105	0.104	84.0	83.2	75.0-121			0.957	20
Xylenes, Total	0.375	0.361	0.358	96.3	95.5	72.0-127			0.834	20
(S) Toluene-d8				110	109	75.0-131				
(S) 4-Bromofluorobenzene				107	109	67.0-138				
(S) 1,2-Dichloroethane-d4				103	108	70.0-130				

L1202171-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1202171-14 03/25/20 15:29 • (MS) R3512994-4 03/25/20 15:50 • (MSD) R3512994-5 03/25/20 16:10

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.129	U	0.0786	0.0955	61.2	74.3	1	10.0-149			19.4	37
Ethylbenzene	0.129	U	0.105	0.126	81.6	98.4	1	10.0-160			18.7	38
Toluene	0.129	U	0.0853	0.108	66.4	84.0	1	10.0-156			23.4	38
Xylenes, Total	0.386	U	0.295	0.366	76.5	94.9	1	10.0-160			21.5	38
(S) Toluene-d8					109	110		75.0-131				
(S) 4-Bromofluorobenzene					111	105		67.0-138				
(S) 1,2-Dichloroethane-d4					105	96.4		70.0-130				

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1202213-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18](#)

Method Blank (MB)

(MB) R3512928-1 03/26/20 12:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	57.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3512928-2 03/26/20 12:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	32.5	65.0	50.0-150	
(S) o-Terphenyl			70.7	18.0-148	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Guide to Reading and Understanding Your Laboratory Report

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

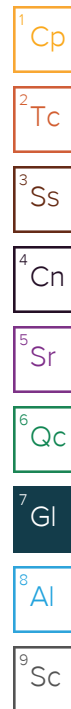
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
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	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

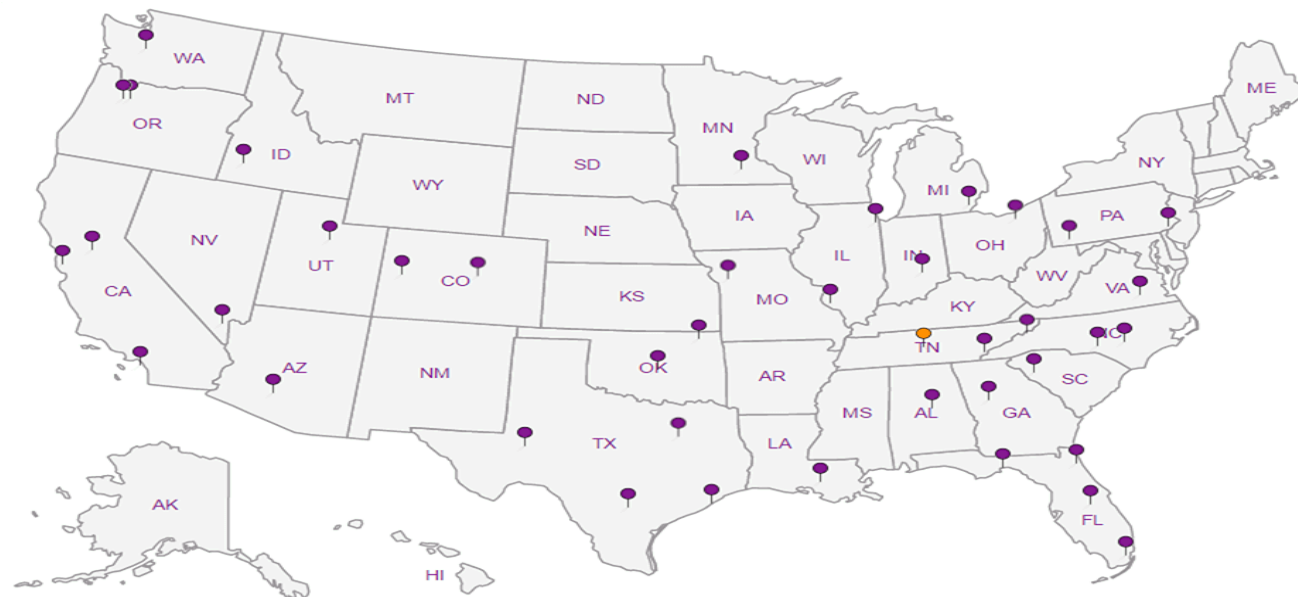
Third Party Federal Accreditations

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

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

Our Locations

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



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

F010

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	COP Baish A Battery	Contact Info:	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02120
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	<i>J. Lull</i>
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
 (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS		FILTERED (Y/N)	BTEX 8021B	BTEX 8260B / 624	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD	
		YEAR: 2020		WATER	SOIL	HCL	HNO ₃	ICE	NONE																									
		DATE	TIME																															
L 120221301	SSW-1	03/20/20	1330		X			X			1	N	X	X														X						
02	SSW-2	03/20/20	1340		X			X			1	N	X	X														X						
03	SSW-3	03/20/20	1350		X			X			1	N	X	X														X						
04	SSW-4	03/20/20	1400		X			X			1	N	X	X														X						
05	SSW-5	03/20/20	1410		X			X			1	N	X	X														X						
06	SSW-6	03/20/20	1420		X			X			1	N	X	X														X						
07	SSW-7	03/20/20	1430		X			X			1	N	X	X														X						
08	SSW-8	03/20/20	1440		X			X			1	N	X	X														X						
09	SSW-9	03/20/20	1450		X			X			1	N	X	X														X						
10	SSW-10	03/20/20	1500		X			X			1	N	X	X														X						
REMARKS																																		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>De Lyl</i>	3-23-20	12:00	<i>SWA</i>	3-23	12:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>SWA</i>	3-23-20	11:00	<i>SWA</i>	3-23	11:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			<i>L. Llull</i>	3/24/20	08:00

LAB USE ONLY

Sample Temperature

REMARKS:

- ☐ Standard
- ☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

RAD SCREEN: <0.5 mR/hr

3-3-20 3:10 CK

Analysis Request of Chain of Custody Record

**Tetra Tech, Inc.**901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Conoco Phillips	Site Manager: Christian Llull
Project Name: COP Baish A Battery	Contact Info: Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state) Lea County, New Mexico	Project #: 212C-MD-02120
Invoice to: Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701	
Receiving Laboratory: Pace Analytical	Sampler Signature:
Comments: COPTETRA Acctnum	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS		FILTERED (Y/N)		BTEX 8021B	BTEX 8260B / 624	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCBs 8082 / 808	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD	
		YEAR: 2020		WATER	SOIL	HCL	HNO ₃	ICE	NONE																										
		DATE	TIME																																
L12022031	SSW-11	03/20/20	1510		X			X		1	N	X	X																X						
12	NSW-1	03/20/20	1200		X			X		1	N	X	X																X						
13	NSW-2	03/20/20	1210		X			X		1	N	X	X																X						
14	NSW-3	03/20/20	1220		X			X		1	N	X	X																X						
15	BH-1 (4')	03/20/20	1300		X			X		1	N	X	X																X						
16	BH-2 (4')	03/20/20	1310		X			X		1	N	X	X																X						
17	BH-3 (4')	03/20/20	1320		X			X		1	N	X	X																X						
18	WSW-1	03/20/20	1230		X			X		1	N	X	X																X						
13M																																			

REMARKS:

Relinquished by: <i>Joe Tyb</i>	Date: 3-23-20	Time: 12:00	Received by: <i>Kelley</i>	Date: 3-23-20	Time: 12:00
Relinquished by: <i>Kelley</i>	Date: 3-23-20	Time: 16:00	Received by: <i>SWA</i>	Date: 3-23-20	Time: 16:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

REMARKS:

- ☐ Standard
- ☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

RAD SCREEN: <0.5 mR/hr

3.3-2-3.1A7

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:	C OPTETRA	L1202213
Cooler Received/Opened On:	3 / 24 / 20	Temperature: 3.1
Received By:	Lakeacher Webster	
Signature:		
Receipt Check List	NP	Yes No
COC Seal Present / Intact?	☒	☐
COC Signed / Accurate?	☐	☒
Bottles arrive intact?	☐	☒
Correct bottles used?	☐	☒
Sufficient volume sent?	☐	☒
If Applicable		
VOA Zero headspace?	☐	☒
Preservation Correct / Checked?		

Chris McCord

From: Dickerson, Ryan <Ryan.Dickerson@tetrattech.com>
Sent: Friday, March 27, 2020 9:58 AM
To: Chris McCord
Cc: Llull, Christian
Subject: Sample ID Revisions for L1202213

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Chris,
Can you revise the sample IDs below to read "FS" instead of "BH"?
L1202213-15....FS-1 (4')
L1202213-16....FS-2 (4')
L1202213-17....FS-3 (4')

Call my cell if you have any questions or need more info.

Ryan Dickerson | Senior Staff Geologist
Direct +1 (512) 338-2889 | Main +1 (512) 338-1667 | Cell +1 (512) 217-7254 | ryan.dickerson@tetrattech.com

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ANALYTICAL REPORT

April 01, 2020

ConocoPhillips - Tetra Tech

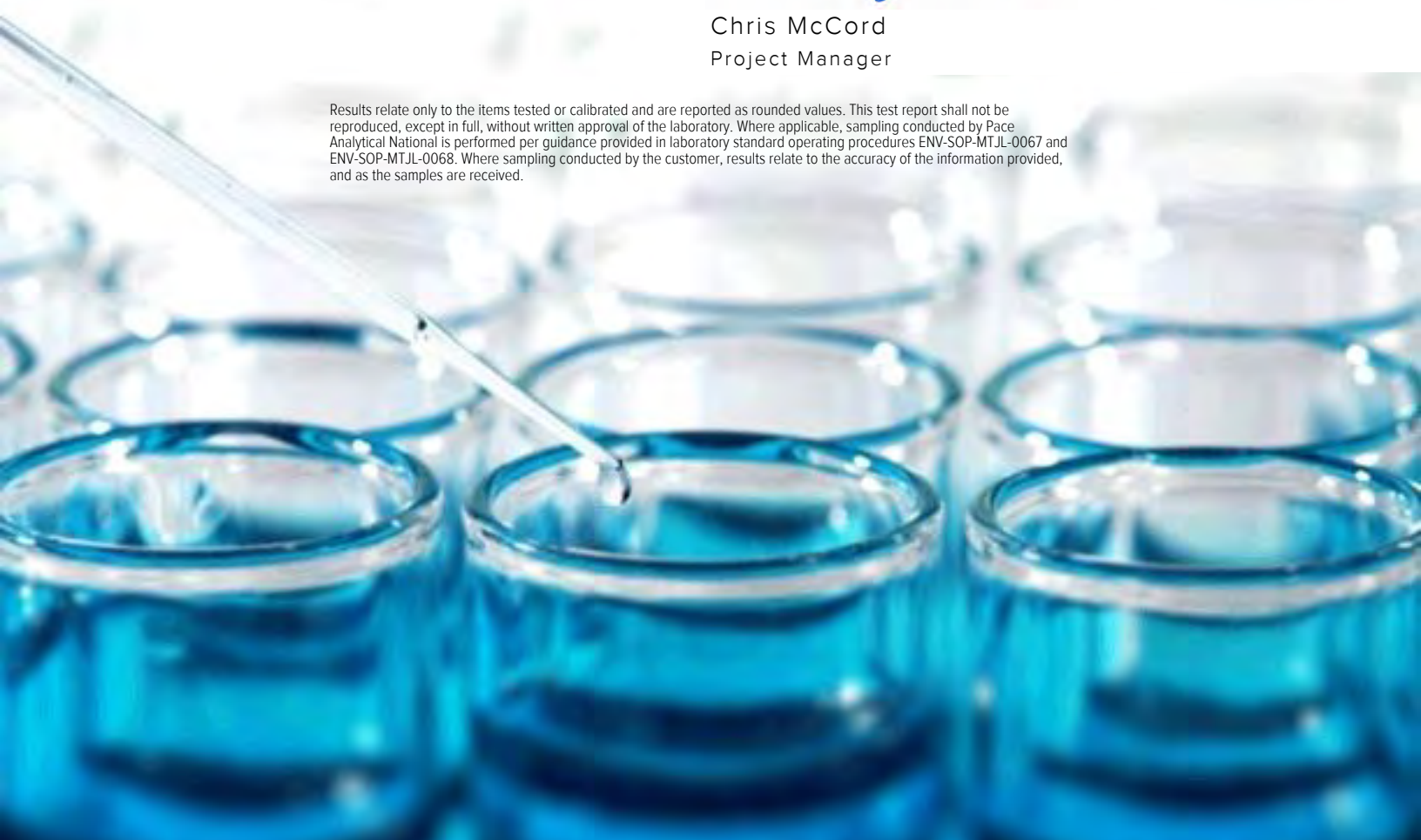
Sample Delivery Group: L1204037
Samples Received: 03/31/2020
Project Number: 212C-MD-02120
Description: COP Baish A Battery

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

Entire Report Reviewed By:

Chris McCord
Project Manager

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



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FS-4 (4') L1204037-01 Solid

Collected by
Collected date/time
Received date/time

03/27/20 12:00 03/31/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453250	1	03/31/20 11:53	03/31/20 12:14	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1452828	1	03/31/20 12:29	03/31/20 21:48	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 13:49	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 08:00	03/31/20 10:08	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 09:59	KME	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn

FS-5 (4') L1204037-02 Solid

Collected by
Collected date/time
Received date/time

03/27/20 12:10 03/31/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453250	1	03/31/20 11:53	03/31/20 12:14	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1452828	1	03/31/20 12:29	03/31/20 22:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 14:10	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 14:15	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 10:12	KME	Mt. Juliet, TN

⁵ Sr⁶ Qc⁷ Gl⁸ Al

FS-6 (4') L1204037-03 Solid

Collected by
Collected date/time
Received date/time

03/27/20 12:20 03/31/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453250	1	03/31/20 11:53	03/31/20 12:14	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1452828	1	03/31/20 12:29	03/31/20 22:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 14:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 14:34	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 10:25	KME	Mt. Juliet, TN

⁹ Sc

FS-10 (4') L1204037-04 Solid

Collected by
Collected date/time
Received date/time

03/27/20 12:30 03/31/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453250	1	03/31/20 11:53	03/31/20 12:14	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1452828	1	03/31/20 12:29	03/31/20 23:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 14:51	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 14:53	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	20	03/31/20 16:07	04/01/20 13:38	KLM	Mt. Juliet, TN

FS-11 (4') L1204037-05 Solid

Collected by
Collected date/time
Received date/time

03/27/20 12:40 03/31/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453250	1	03/31/20 11:53	03/31/20 12:14	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1452828	1	03/31/20 12:29	03/31/20 23:36	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 15:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 15:12	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 10:37	KME	Mt. Juliet, TN

FS-12 (4') L1204037-06 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 12:50	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453250	1	03/31/20 11:53	03/31/20 12:14	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1452828	1	03/31/20 12:29	03/31/20 23:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 15:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 15:31	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	20	03/31/20 16:07	04/01/20 14:03	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

FS-13 (4') L1204037-07 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 13:00	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453250	1	03/31/20 11:53	03/31/20 12:14	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 18:48	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 16:11	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 15:50	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 12:07	KME	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

FS-14 (4') L1204037-08 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 13:10	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453251	1	03/31/20 12:17	03/31/20 12:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 19:07	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 16:32	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 16:08	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	40	03/31/20 16:07	04/01/20 12:34	KME	Mt. Juliet, TN

9 Sc

SSW-12 L1204037-09 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 13:20	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453251	1	03/31/20 12:17	03/31/20 12:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 19:16	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 16:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 16:27	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 10:50	KME	Mt. Juliet, TN

SSW-13 L1204037-10 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 13:30	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453251	1	03/31/20 12:17	03/31/20 12:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 19:26	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 17:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 16:46	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 11:03	KME	Mt. Juliet, TN

SSW-14 L1204037-11 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 13:40	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453251	1	03/31/20 12:17	03/31/20 12:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 19:35	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 17:33	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 17:05	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 12:20	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

SSW-15 L1204037-12 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 13:50	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453251	1	03/31/20 12:17	03/31/20 12:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 19:45	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 17:54	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 17:24	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	5	03/31/20 16:07	04/01/20 16:38	TJD	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

SSW-16 L1204037-13 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 14:00	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453251	1	03/31/20 12:17	03/31/20 12:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 19:54	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453329	1	03/31/20 11:51	03/31/20 18:15	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453319	1	03/31/20 11:51	03/31/20 17:43	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	40	03/31/20 16:07	04/01/20 13:25	KME	Mt. Juliet, TN

9 Sc

SSW-17 L1204037-14 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 14:10	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453251	1	03/31/20 12:17	03/31/20 12:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 20:23	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453433	1	03/31/20 14:11	03/31/20 16:16	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453879	1	03/31/20 14:11	04/01/20 13:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	40	03/31/20 16:07	04/01/20 12:59	KLM	Mt. Juliet, TN

SSW-18 L1204037-15 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 14:20	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453251	1	03/31/20 12:17	03/31/20 12:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 20:52	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453433	1	03/31/20 14:11	03/31/20 16:40	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453879	1	03/31/20 14:11	04/01/20 13:35	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	40	03/31/20 16:07	04/01/20 13:12	KME	Mt. Juliet, TN

SSW-19 L1204037-16 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 14:30	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453251	1	03/31/20 12:17	03/31/20 12:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 21:01	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453433	1	03/31/20 14:11	03/31/20 17:27	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453879	1	03/31/20 14:11	04/01/20 13:54	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 11:16	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

SSW-20 L1204037-17 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 14:40	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453251	1	03/31/20 12:17	03/31/20 12:25	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 21:11	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453433	1	03/31/20 14:11	03/31/20 17:51	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453879	1	03/31/20 14:11	04/01/20 14:13	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 11:29	KME	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

SSW-21 L1204037-18 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 14:50	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453252	1	03/31/20 12:31	03/31/20 12:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 21:20	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453609	25	03/31/20 14:11	04/01/20 12:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453460	8	03/31/20 14:11	04/01/20 01:36	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	40	03/31/20 16:07	04/01/20 12:46	KME	Mt. Juliet, TN

9 Sc

SSW-22 L1204037-19 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 15:00	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453252	1	03/31/20 12:31	03/31/20 12:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 21:30	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453433	1	03/31/20 14:11	03/31/20 18:15	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453879	1	03/31/20 14:11	04/01/20 14:33	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 11:41	KME	Mt. Juliet, TN

SSW-23 L1204037-20 Solid

				Collected by	Collected date/time	Received date/time
					03/27/20 15:10	03/31/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453252	1	03/31/20 12:31	03/31/20 12:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 21:39	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453433	1	03/31/20 14:11	03/31/20 18:39	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453460	1	03/31/20 14:11	03/31/20 22:17	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453352	1	03/31/20 16:07	04/01/20 11:54	KME	Mt. Juliet, TN

NSW-10 L1204037-21 Solid

Collected by
Collected date/time
Received date/time

03/27/20 15:20 03/31/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453252	1	03/31/20 12:31	03/31/20 12:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 21:49	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453433	1	03/31/20 14:11	03/31/20 19:03	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453460	1	03/31/20 14:11	03/31/20 22:36	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453354	20	03/31/20 16:32	04/01/20 04:25	KME	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn

NSW-11 L1204037-22 Solid

Collected by
Collected date/time
Received date/time

03/27/20 15:30 03/31/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453252	1	03/31/20 12:31	03/31/20 12:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 22:17	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453433	1	03/31/20 14:11	03/31/20 19:27	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453460	1	03/31/20 14:11	03/31/20 23:01	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453354	40	03/31/20 16:32	04/01/20 04:41	KME	Mt. Juliet, TN

⁵ Sr⁶ Qc⁷ Gl⁸ Al

NSW-12 L1204037-23 Solid

Collected by
Collected date/time
Received date/time

03/27/20 15:40 03/31/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453252	1	03/31/20 12:31	03/31/20 12:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 22:27	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453433	1	03/31/20 14:11	03/31/20 19:51	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453460	1	03/31/20 14:11	04/01/20 00:19	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453354	10	03/31/20 16:32	04/01/20 11:05	KME	Mt. Juliet, TN

⁹ Sc

WSW-2 L1204037-24 Solid

Collected by
Collected date/time
Received date/time

03/27/20 15:50 03/31/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453252	1	03/31/20 12:31	03/31/20 12:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 22:36	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453433	1	03/31/20 14:11	03/31/20 20:15	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453460	1	03/31/20 14:11	04/01/20 00:38	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453354	1	03/31/20 16:32	04/01/20 03:37	KME	Mt. Juliet, TN

WSW-3 L1204037-25 Solid

Collected by
Collected date/time
Received date/time

03/27/20 16:00 03/31/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453252	1	03/31/20 12:31	03/31/20 12:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 22:46	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453433	1	03/31/20 14:11	03/31/20 20:39	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453460	1	03/31/20 14:11	04/01/20 00:57	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453354	1	03/31/20 16:32	04/01/20 04:09	KME	Mt. Juliet, TN

WSW-4 L1204037-26 Solid

Collected by
Collected date/time
Received date/time

03/27/20 16:1003/31/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1453252	1	03/31/20 12:31	03/31/20 12:41	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1453198	1	03/31/20 16:30	03/31/20 22:55	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1453609	1	03/31/20 14:11	04/01/20 12:35	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1453460	1	03/31/20 14:11	04/01/20 01:17	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1453354	1	03/31/20 16:32	04/01/20 03:53	KME	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

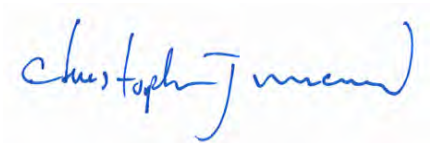
⁶Qc

⁷Gl

⁸Al

⁹Sc

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



Chris McCord
Project Manager

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Collected date/time: 03/27/20 12:00

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.8		1	03/31/2020 12:14	WG1453250

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	5.24	J	0.813	10.2	1	03/31/2020 21:48	WG1452828

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0281	J	0.0222	0.102	1	03/31/2020 13:49	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		03/31/2020 13:49	WG1453329

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000613	J	0.000409	0.00102	1	03/31/2020 10:08	WG1453319
Toluene	0.00164	J	0.00128	0.00511	1	03/31/2020 10:08	WG1453319
Ethylbenzene	U		0.000542	0.00256	1	03/31/2020 10:08	WG1453319
Total Xylenes	U		0.00489	0.00664	1	03/31/2020 10:08	WG1453319
(S) Toluene-d8	116			75.0-131		03/31/2020 10:08	WG1453319
(S) 4-Bromofluorobenzene	90.2			67.0-138		03/31/2020 10:08	WG1453319
(S) 1,2-Dichloroethane-d4	92.7			70.0-130		03/31/2020 10:08	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.65	4.09	1	04/01/2020 09:59	WG1453352
C28-C40 Oil Range	0.810	B J	0.280	4.09	1	04/01/2020 09:59	WG1453352
(S) o-Terphenyl	62.0			18.0-148		04/01/2020 09:59	WG1453352

Collected date/time: 03/27/20 12:10

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.2		1	03/31/2020 12:14	WG1453250

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	161		0.818	10.3	1	03/31/2020 22:06	WG1452828

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	03/31/2020 14:10	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120		03/31/2020 14:10	WG1453329

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000411	0.00103	1	03/31/2020 14:15	WG1453319
Toluene	U		0.00129	0.00514	1	03/31/2020 14:15	WG1453319
Ethylbenzene	U		0.000545	0.00257	1	03/31/2020 14:15	WG1453319
Total Xylenes	U		0.00492	0.00669	1	03/31/2020 14:15	WG1453319
(S) Toluene-d8	114			75.0-131		03/31/2020 14:15	WG1453319
(S) 4-Bromofluorobenzene	91.8			67.0-138		03/31/2020 14:15	WG1453319
(S) 1,2-Dichloroethane-d4	90.6			70.0-130		03/31/2020 14:15	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.11	1	04/01/2020 10:12	WG1453352
C28-C40 Oil Range	0.462	B J	0.282	4.11	1	04/01/2020 10:12	WG1453352
(S) o-Terphenyl	66.2			18.0-148		04/01/2020 10:12	WG1453352

Collected date/time: 03/27/20 12:20

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.2		1	03/31/2020 12:14	WG1453250

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	173		0.809	10.2	1	03/31/2020 22:24	WG1452828

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0223	J	0.0221	0.102	1	03/31/2020 14:30	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	94.9			77.0-120		03/31/2020 14:30	WG1453329

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000407	0.00102	1	03/31/2020 14:34	WG1453319
Toluene	U		0.00127	0.00509	1	03/31/2020 14:34	WG1453319
Ethylbenzene	U		0.000540	0.00255	1	03/31/2020 14:34	WG1453319
Total Xylenes	U		0.00487	0.00662	1	03/31/2020 14:34	WG1453319
(S) Toluene-d8	115			75.0-131		03/31/2020 14:34	WG1453319
(S) 4-Bromofluorobenzene	89.8			67.0-138		03/31/2020 14:34	WG1453319
(S) 1,2-Dichloroethane-d4	93.0			70.0-130		03/31/2020 14:34	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.64	4.07	1	04/01/2020 10:25	WG1453352
C28-C40 Oil Range	1.10	B J	0.279	4.07	1	04/01/2020 10:25	WG1453352
(S) o-Terphenyl	63.7			18.0-148		04/01/2020 10:25	WG1453352

Collected date/time: 03/27/20 12:30

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.8		1	03/31/2020 12:14	WG1453250

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	154		0.866	10.9	1	03/31/2020 23:18	WG1452828

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.785		0.0236	0.109	1	03/31/2020 14:51	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	87.0			77.0-120		03/31/2020 14:51	WG1453329

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000436	0.00109	1	03/31/2020 14:53	WG1453319
Toluene	U		0.00136	0.00545	1	03/31/2020 14:53	WG1453319
Ethylbenzene	U		0.000577	0.00272	1	03/31/2020 14:53	WG1453319
Total Xylenes	U		0.00521	0.00708	1	03/31/2020 14:53	WG1453319
(S) Toluene-d8	114			75.0-131		03/31/2020 14:53	WG1453319
(S) 4-Bromofluorobenzene	106			67.0-138		03/31/2020 14:53	WG1453319
(S) 1,2-Dichloroethane-d4	94.8			70.0-130		03/31/2020 14:53	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1390		35.1	87.2	20	04/01/2020 13:38	WG1453352
C28-C40 Oil Range	1210		5.97	87.2	20	04/01/2020 13:38	WG1453352
(S) o-Terphenyl	102	J7		18.0-148		04/01/2020 13:38	WG1453352

Collected date/time: 03/27/20 12:40

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.7		1	03/31/2020 12:14	WG1453250

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	4.49	J	0.840	10.6	1	03/31/2020 23:36	WG1452828

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0229	0.106	1	03/31/2020 15:12	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	95.6			77.0-120		03/31/2020 15:12	WG1453329

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000422	0.00106	1	03/31/2020 15:12	WG1453319
Toluene	U		0.00132	0.00528	1	03/31/2020 15:12	WG1453319
Ethylbenzene	U		0.000560	0.00264	1	03/31/2020 15:12	WG1453319
Total Xylenes	U		0.00505	0.00686	1	03/31/2020 15:12	WG1453319
(S) Toluene-d8	113			75.0-131		03/31/2020 15:12	WG1453319
(S) 4-Bromofluorobenzene	91.4			67.0-138		03/31/2020 15:12	WG1453319
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		03/31/2020 15:12	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.22	1	04/01/2020 10:37	WG1453352
C28-C40 Oil Range	2.07	B J	0.289	4.22	1	04/01/2020 10:37	WG1453352
(S) o-Terphenyl	58.5			18.0-148		04/01/2020 10:37	WG1453352

Collected date/time: 03/27/20 12:50

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.8		1	03/31/2020 12:14	WG1453250

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	6.60	J	0.857	10.8	1	03/31/2020 23:54	WG1452828

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	03/31/2020 15:50	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	84.3			77.0-120		03/31/2020 15:50	WG1453329

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000431	0.00108	1	03/31/2020 15:31	WG1453319
Toluene	U		0.00135	0.00539	1	03/31/2020 15:31	WG1453319
Ethylbenzene	U		0.000571	0.00269	1	03/31/2020 15:31	WG1453319
Total Xylenes	U		0.00515	0.00700	1	03/31/2020 15:31	WG1453319
(S) Toluene-d8	115			75.0-131		03/31/2020 15:31	WG1453319
(S) 4-Bromofluorobenzene	89.6			67.0-138		03/31/2020 15:31	WG1453319
(S) 1,2-Dichloroethane-d4	91.1			70.0-130		03/31/2020 15:31	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	209		34.7	86.2	20	04/01/2020 14:03	WG1453352
C28-C40 Oil Range	446		5.90	86.2	20	04/01/2020 14:03	WG1453352
(S) o-Terphenyl	69.9	J7		18.0-148		04/01/2020 14:03	WG1453352

Collected date/time: 03/27/20 13:00

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	03/31/2020 12:14	WG1453250

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	7.99	B J	0.835	10.5	1	03/31/2020 18:48	WG1453198

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0228	0.105	1	03/31/2020 16:11	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		03/31/2020 16:11	WG1453329

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000420	0.00105	1	03/31/2020 15:50	WG1453319
Toluene	U		0.00131	0.00525	1	03/31/2020 15:50	WG1453319
Ethylbenzene	U		0.000556	0.00262	1	03/31/2020 15:50	WG1453319
Total Xylenes	U		0.00502	0.00682	1	03/31/2020 15:50	WG1453319
(S) Toluene-d8	114			75.0-131		03/31/2020 15:50	WG1453319
(S) 4-Bromofluorobenzene	90.9			67.0-138		03/31/2020 15:50	WG1453319
(S) 1,2-Dichloroethane-d4	91.4			70.0-130		03/31/2020 15:50	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	23.0		1.69	4.20	1	04/01/2020 12:07	WG1453352
C28-C40 Oil Range	40.6		0.288	4.20	1	04/01/2020 12:07	WG1453352
(S) o-Terphenyl	34.4			18.0-148		04/01/2020 12:07	WG1453352

Collected date/time: 03/27/20 13:10

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.8		1	03/31/2020 12:25	WG1453251

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	6.79	B J	0.804	10.1	1	03/31/2020 19:07	WG1453198

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	03/31/2020 16:32	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		03/31/2020 16:32	WG1453329

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000405	0.00101	1	03/31/2020 16:08	WG1453319
Toluene	U		0.00126	0.00506	1	03/31/2020 16:08	WG1453319
Ethylbenzene	U		0.000536	0.00253	1	03/31/2020 16:08	WG1453319
Total Xylenes	U		0.00484	0.00658	1	03/31/2020 16:08	WG1453319
(S) Toluene-d8	115			75.0-131		03/31/2020 16:08	WG1453319
(S) 4-Bromofluorobenzene	92.4			67.0-138		03/31/2020 16:08	WG1453319
(S) 1,2-Dichloroethane-d4	95.3			70.0-130		03/31/2020 16:08	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	220		65.2	162	40	04/01/2020 12:34	WG1453352
C28-C40 Oil Range	486		11.1	162	40	04/01/2020 12:34	WG1453352
(S) o-Terphenyl	75.8	J7		18.0-148		04/01/2020 12:34	WG1453352

Collected date/time: 03/27/20 13:20

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.0		1	03/31/2020 12:25	WG1453251

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	2.44	B J	0.803	10.1	1	03/31/2020 19:16	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	03/31/2020 16:52	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	94.9			77.0-120		03/31/2020 16:52	WG1453329

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000404	0.00101	1	03/31/2020 16:27	WG1453319
Toluene	U		0.00126	0.00505	1	03/31/2020 16:27	WG1453319
Ethylbenzene	U		0.000535	0.00252	1	03/31/2020 16:27	WG1453319
Total Xylenes	U		0.00483	0.00656	1	03/31/2020 16:27	WG1453319
(S) Toluene-d8	115			75.0-131		03/31/2020 16:27	WG1453319
(S) 4-Bromofluorobenzene	92.1			67.0-138		03/31/2020 16:27	WG1453319
(S) 1,2-Dichloroethane-d4	94.7			70.0-130		03/31/2020 16:27	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.63	4.04	1	04/01/2020 10:50	WG1453352
C28-C40 Oil Range	4.13	B	0.277	4.04	1	04/01/2020 10:50	WG1453352
(S) o-Terphenyl	66.4			18.0-148		04/01/2020 10:50	WG1453352

Collected date/time: 03/27/20 13:30

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.5		1	03/31/2020 12:25	WG1453251

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	2.24	B J	0.799	10.1	1	03/31/2020 19:26	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0218	0.101	1	03/31/2020 17:13	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		03/31/2020 17:13	WG1453329

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000402	0.00101	1	03/31/2020 16:46	WG1453319
Toluene	U		0.00126	0.00503	1	03/31/2020 16:46	WG1453319
Ethylbenzene	U		0.000533	0.00251	1	03/31/2020 16:46	WG1453319
Total Xylenes	U		0.00481	0.00653	1	03/31/2020 16:46	WG1453319
(S) Toluene-d8	115			75.0-131		03/31/2020 16:46	WG1453319
(S) 4-Bromofluorobenzene	91.9			67.0-138		03/31/2020 16:46	WG1453319
(S) 1,2-Dichloroethane-d4	95.1			70.0-130		03/31/2020 16:46	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.62	4.02	1	04/01/2020 11:03	WG1453352
C28-C40 Oil Range	2.68	B J	0.275	4.02	1	04/01/2020 11:03	WG1453352
(S) o-Terphenyl	75.8			18.0-148		04/01/2020 11:03	WG1453352

Collected date/time: 03/27/20 13:40

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.1		1	03/31/2020 12:25	WG1453251

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	3.06	B J	0.810	10.2	1	03/31/2020 19:35	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	03/31/2020 17:33	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		03/31/2020 17:33	WG1453329

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000408	0.00102	1	03/31/2020 17:05	WG1453319
Toluene	U		0.00127	0.00510	1	03/31/2020 17:05	WG1453319
Ethylbenzene	U		0.000540	0.00255	1	03/31/2020 17:05	WG1453319
Total Xylenes	U		0.00487	0.00663	1	03/31/2020 17:05	WG1453319
(S) Toluene-d8	114			75.0-131		03/31/2020 17:05	WG1453319
(S) 4-Bromofluorobenzene	92.1			67.0-138		03/31/2020 17:05	WG1453319
(S) 1,2-Dichloroethane-d4	94.4			70.0-130		03/31/2020 17:05	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	10.8		1.64	4.08	1	04/01/2020 12:20	WG1453352
C28-C40 Oil Range	36.9		0.279	4.08	1	04/01/2020 12:20	WG1453352
(S) o-Terphenyl	44.6			18.0-148		04/01/2020 12:20	WG1453352

Collected date/time: 03/27/20 13:50

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.5		1	03/31/2020 12:25	WG1453251

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	2.03	B J	0.808	10.2	1	03/31/2020 19:45	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.102	1	03/31/2020 17:54	WG1453329
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.3			77.0-120		03/31/2020 17:54	WG1453329

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000406	0.00102	1	03/31/2020 17:24	WG1453319
Toluene	U		0.00127	0.00508	1	03/31/2020 17:24	WG1453319
Ethylbenzene	U		0.000538	0.00254	1	03/31/2020 17:24	WG1453319
Total Xylenes	U		0.00486	0.00660	1	03/31/2020 17:24	WG1453319
(S) <i>Toluene-d8</i>	113			75.0-131		03/31/2020 17:24	WG1453319
(S) <i>4-Bromofluorobenzene</i>	90.0			67.0-138		03/31/2020 17:24	WG1453319
(S) <i>1,2-Dichloroethane-d4</i>	94.1			70.0-130		03/31/2020 17:24	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	24.9		8.18	20.3	5	04/01/2020 16:38	WG1453352
C28-C40 Oil Range	50.2		1.39	20.3	5	04/01/2020 16:38	WG1453352
(S) <i>o</i> -Terphenyl	58.6			18.0-148		04/01/2020 16:38	WG1453352

Collected date/time: 03/27/20 14:00

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.2		1	03/31/2020 12:25	WG1453251

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	2.47	B J	0.810	10.2	1	03/31/2020 19:54	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	03/31/2020 18:15	WG1453329
(S) a,a,a-Trifluorotoluene(FID)	93.9			77.0-120		03/31/2020 18:15	WG1453329

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000407	0.00102	1	03/31/2020 17:43	WG1453319
Toluene	U		0.00127	0.00509	1	03/31/2020 17:43	WG1453319
Ethylbenzene	U		0.000540	0.00255	1	03/31/2020 17:43	WG1453319
Total Xylenes	U		0.00487	0.00662	1	03/31/2020 17:43	WG1453319
(S) Toluene-d8	116			75.0-131		03/31/2020 17:43	WG1453319
(S) 4-Bromofluorobenzene	89.1			67.0-138		03/31/2020 17:43	WG1453319
(S) 1,2-Dichloroethane-d4	90.5			70.0-130		03/31/2020 17:43	WG1453319

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	110	J	65.6	163	40	04/01/2020 13:25	WG1453352
C28-C40 Oil Range	331		11.2	163	40	04/01/2020 13:25	WG1453352
(S) o-Terphenyl	80.6	J7		18.0-148		04/01/2020 13:25	WG1453352

Sample Narrative:

L1204037-13 WG1453352: Cannot run at lower dilution due to viscosity of extract

Collected date/time: 03/27/20 14:10

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.8		1	03/31/2020 12:25	WG1453251

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	4.93	B J	0.830	10.4	1	03/31/2020 20:23	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	03/31/2020 16:16	WG1453433
(S) a,a,a-Trifluorotoluene(FID)	90.2			77.0-120		03/31/2020 16:16	WG1453433

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000417	0.00104	1	04/01/2020 13:16	WG1453879
Toluene	U		0.00130	0.00522	1	04/01/2020 13:16	WG1453879
Ethylbenzene	U		0.000553	0.00261	1	04/01/2020 13:16	WG1453879
Total Xylenes	U		0.00499	0.00678	1	04/01/2020 13:16	WG1453879
(S) Toluene-d8	111			75.0-131		04/01/2020 13:16	WG1453879
(S) 4-Bromofluorobenzene	93.0			67.0-138		04/01/2020 13:16	WG1453879
(S) 1,2-Dichloroethane-d4	119			70.0-130		04/01/2020 13:16	WG1453879

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	85.4	J	67.2	167	40	04/01/2020 12:59	WG1453352
C28-C40 Oil Range	308		11.5	167	40	04/01/2020 12:59	WG1453352
(S) o-Terphenyl	83.4	J7		18.0-148		04/01/2020 12:59	WG1453352

Sample Narrative:

L1204037-14 WG1453352: Cannot run at lower dilution due to viscosity of extract

Collected date/time: 03/27/20 14:20

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.1		1	03/31/2020 12:25	WG1453251

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	3.46	B J	0.873	11.0	1	03/31/2020 20:52	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0238	0.110	1	03/31/2020 16:40	WG1453433
(S) a,a,a-Trifluorotoluene(FID)	90.3			77.0-120		03/31/2020 16:40	WG1453433

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000439	0.00110	1	04/01/2020 13:35	WG1453879
Toluene	U		0.00137	0.00549	1	04/01/2020 13:35	WG1453879
Ethylbenzene	U		0.000582	0.00275	1	04/01/2020 13:35	WG1453879
Total Xylenes	U		0.00525	0.00714	1	04/01/2020 13:35	WG1453879
(S) Toluene-d8	110			75.0-131		04/01/2020 13:35	WG1453879
(S) 4-Bromofluorobenzene	91.4			67.0-138		04/01/2020 13:35	WG1453879
(S) 1,2-Dichloroethane-d4	108			70.0-130		04/01/2020 13:35	WG1453879

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	99.9	J	70.7	176	40	04/01/2020 13:12	WG1453352
C28-C40 Oil Range	383		12.1	176	40	04/01/2020 13:12	WG1453352
(S) o-Terphenyl	66.4	J7		18.0-148		04/01/2020 13:12	WG1453352

Sample Narrative:

L1204037-15 WG1453352: Cannot run at lower dilution due to viscosity of extract

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

Collected date/time: 03/27/20 14:30

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.1		1	03/31/2020 12:25	WG1453251

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	22.4		0.902	11.4	1	03/31/2020 21:01	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0246	0.114	1	03/31/2020 17:27	WG1453433
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120		03/31/2020 17:27	WG1453433

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000454	0.00114	1	04/01/2020 13:54	WG1453879
Toluene	U		0.00142	0.00568	1	04/01/2020 13:54	WG1453879
Ethylbenzene	U		0.000602	0.00284	1	04/01/2020 13:54	WG1453879
Total Xylenes	U		0.00543	0.00738	1	04/01/2020 13:54	WG1453879
(S) Toluene-d8	112			75.0-131		04/01/2020 13:54	WG1453879
(S) 4-Bromofluorobenzene	91.4			67.0-138		04/01/2020 13:54	WG1453879
(S) 1,2-Dichloroethane-d4	109			70.0-130		04/01/2020 13:54	WG1453879

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.83	4.54	1	04/01/2020 11:16	WG1453352
C28-C40 Oil Range	0.974	B J	0.311	4.54	1	04/01/2020 11:16	WG1453352
(S) o-Terphenyl	39.8			18.0-148		04/01/2020 11:16	WG1453352

Collected date/time: 03/27/20 14:40

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.3		1	03/31/2020 12:25	WG1453251

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	8.29	B J	0.871	11.0	1	03/31/2020 21:11	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0238	0.110	1	03/31/2020 17:51	WG1453433
(S) a,a,a-Trifluorotoluene(FID)	97.2			77.0-120		03/31/2020 17:51	WG1453433

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000438	0.00110	1	04/01/2020 14:13	WG1453879
Toluene	U		0.00137	0.00548	1	04/01/2020 14:13	WG1453879
Ethylbenzene	U		0.000581	0.00274	1	04/01/2020 14:13	WG1453879
Total Xylenes	U		0.00524	0.00712	1	04/01/2020 14:13	WG1453879
(S) Toluene-d8	114			75.0-131		04/01/2020 14:13	WG1453879
(S) 4-Bromofluorobenzene	87.5			67.0-138		04/01/2020 14:13	WG1453879
(S) 1,2-Dichloroethane-d4	106			70.0-130		04/01/2020 14:13	WG1453879

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.76	4.38	1	04/01/2020 11:29	WG1453352
C28-C40 Oil Range	1.31	B J	0.300	4.38	1	04/01/2020 11:29	WG1453352
(S) o-Terphenyl	56.6			18.0-148		04/01/2020 11:29	WG1453352

Collected date/time: 03/27/20 14:50

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.9		1	03/31/2020 12:41	WG1453252

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	3.15	B J	0.804	10.1	1	03/31/2020 21:20	WG1453198

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	12.2		0.549	2.53	25	04/01/2020 12:14	WG1453609
(S) a,a,a-Trifluorotoluene(FID)	99.5			77.0-120		04/01/2020 12:14	WG1453609

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.00324	0.00809	8	04/01/2020 01:36	WG1453460
Toluene	U		0.0101	0.0405	8	04/01/2020 01:36	WG1453460
Ethylbenzene	U		0.00429	0.0202	8	04/01/2020 01:36	WG1453460
Total Xylenes	U		0.0386	0.0526	8	04/01/2020 01:36	WG1453460
(S) Toluene-d8	107			75.0-131		04/01/2020 01:36	WG1453460
(S) 4-Bromofluorobenzene	98.7			67.0-138		04/01/2020 01:36	WG1453460
(S) 1,2-Dichloroethane-d4	123			70.0-130		04/01/2020 01:36	WG1453460

Sample Narrative:

L1204037-18 WG1453460: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	684		65.1	162	40	04/01/2020 12:46	WG1453352
C28-C40 Oil Range	687		11.1	162	40	04/01/2020 12:46	WG1453352
(S) o-Terphenyl	77.8	J7		18.0-148		04/01/2020 12:46	WG1453352

Collected date/time: 03/27/20 15:00

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.0		1	03/31/2020 12:41	WG1453252

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	5.26	B J	0.828	10.4	1	03/31/2020 21:30	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	03/31/2020 18:15	WG1453433
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.8			77.0-120		03/31/2020 18:15	WG1453433

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000417	0.00104	1	04/01/2020 14:33	WG1453879
Toluene	U		0.00130	0.00521	1	04/01/2020 14:33	WG1453879
Ethylbenzene	U		0.000552	0.00260	1	04/01/2020 14:33	WG1453879
Total Xylenes	U		0.00498	0.00677	1	04/01/2020 14:33	WG1453879
(S) <i>Toluene-d8</i>	113			75.0-131		04/01/2020 14:33	WG1453879
(S) <i>4</i> -Bromofluorobenzene	86.6			67.0-138		04/01/2020 14:33	WG1453879
(S) <i>1,2</i> -Dichloroethane- <i>d4</i>	105			70.0-130		04/01/2020 14:33	WG1453879

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.68	4.17	1	04/01/2020 11:41	WG1453352
C28-C40 Oil Range	1.11	B J	0.285	4.17	1	04/01/2020 11:41	WG1453352
(S) <i>o</i> -Terphenyl	36.7			18.0-148		04/01/2020 11:41	WG1453352

Collected date/time: 03/27/20 15:10

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.7		1	03/31/2020 12:41	WG1453252

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1.86	B J	0.831	10.5	1	03/31/2020 21:39	WG1453198

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1	03/31/2020 18:39	WG1453433
(S) a,a,a-Trifluorotoluene(FID)	95.2			77.0-120		03/31/2020 18:39	WG1453433

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000418	0.00105	1	03/31/2020 22:17	WG1453460
Toluene	U		0.00131	0.00523	1	03/31/2020 22:17	WG1453460
Ethylbenzene	U		0.000554	0.00261	1	03/31/2020 22:17	WG1453460
Total Xylenes	U		0.00500	0.00679	1	03/31/2020 22:17	WG1453460
(S) Toluene-d8	113			75.0-131		03/31/2020 22:17	WG1453460
(S) 4-Bromofluorobenzene	90.1			67.0-138		03/31/2020 22:17	WG1453460
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/31/2020 22:17	WG1453460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.16	J	1.68	4.18	1	04/01/2020 11:54	WG1453352
C28-C40 Oil Range	13.5		0.286	4.18	1	04/01/2020 11:54	WG1453352
(S) o-Terphenyl	46.8			18.0-148		04/01/2020 11:54	WG1453352

Collected date/time: 03/27/20 15:20

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.5		1	03/31/2020 12:41	WG1453252

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	207		0.799	10.1	1	03/31/2020 21:49	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0218	0.101	1	03/31/2020 19:03	WG1453433
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		03/31/2020 19:03	WG1453433

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000402	0.00101	1	03/31/2020 22:36	WG1453460
Toluene	U		0.00126	0.00503	1	03/31/2020 22:36	WG1453460
Ethylbenzene	U		0.000533	0.00251	1	03/31/2020 22:36	WG1453460
Total Xylenes	U		0.00481	0.00654	1	03/31/2020 22:36	WG1453460
(S) Toluene-d8	110			75.0-131		03/31/2020 22:36	WG1453460
(S) 4-Bromofluorobenzene	88.5			67.0-138		03/31/2020 22:36	WG1453460
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/31/2020 22:36	WG1453460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	181		32.4	80.4	20	04/01/2020 04:25	WG1453354
C28-C40 Oil Range	412		5.51	80.4	20	04/01/2020 04:25	WG1453354
(S) o-Terphenyl	71.5	J7		18.0-148		04/01/2020 04:25	WG1453354

Collected date/time: 03/27/20 15:30

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.8		1	03/31/2020 12:41	WG1453252

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	66.5		0.805	10.1	1	03/31/2020 22:17	WG1453198

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	03/31/2020 19:27	WG1453433
(S) a,a,a-Trifluorotoluene(FID)	94.3			77.0-120		03/31/2020 19:27	WG1453433

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000405	0.00101	1	03/31/2020 23:01	WG1453460
Toluene	U		0.00127	0.00506	1	03/31/2020 23:01	WG1453460
Ethylbenzene	U		0.000536	0.00253	1	03/31/2020 23:01	WG1453460
Total Xylenes	U		0.00484	0.00658	1	03/31/2020 23:01	WG1453460
(S) Toluene-d8	113			75.0-131		03/31/2020 23:01	WG1453460
(S) 4-Bromofluorobenzene	86.3			67.0-138		03/31/2020 23:01	WG1453460
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/31/2020 23:01	WG1453460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	166		65.2	162	40	04/01/2020 04:41	WG1453354
C28-C40 Oil Range	331		11.1	162	40	04/01/2020 04:41	WG1453354
(S) o-Terphenyl	82.8	J7		18.0-148		04/01/2020 04:41	WG1453354

Collected date/time: 03/27/20 15:40

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.4		1	03/31/2020 12:41	WG1453252

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	42.0		0.920	11.6	1	03/31/2020 22:27	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0251	0.116	1	03/31/2020 19:51	WG1453433
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		03/31/2020 19:51	WG1453433

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000463	0.00116	1	04/01/2020 00:19	WG1453460
Toluene	U		0.00145	0.00579	1	04/01/2020 00:19	WG1453460
Ethylbenzene	U		0.000614	0.00289	1	04/01/2020 00:19	WG1453460
Total Xylenes	U		0.00553	0.00753	1	04/01/2020 00:19	WG1453460
(S) Toluene-d8	115			75.0-131		04/01/2020 00:19	WG1453460
(S) 4-Bromofluorobenzene	90.4			67.0-138		04/01/2020 00:19	WG1453460
(S) 1,2-Dichloroethane-d4	111			70.0-130		04/01/2020 00:19	WG1453460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	25.1	J	18.6	46.3	10	04/01/2020 11:05	WG1453354
C28-C40 Oil Range	66.6		3.17	46.3	10	04/01/2020 11:05	WG1453354
(S) o-Terphenyl	72.5			18.0-148		04/01/2020 11:05	WG1453354

Sample Narrative:

L1204037-23 WG1453354: Cannot run at lower dilution due to viscosity of extract

Collected date/time: 03/27/20 15:50

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.2		1	03/31/2020 12:41	WG1453252

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	114		0.967	12.2	1	03/31/2020 22:36	WG1453198

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0264	0.122	1	03/31/2020 20:15	WG1453433
(S) a,a,a-Trifluorotoluene(FID)	98.3			77.0-120		03/31/2020 20:15	WG1453433

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000486	0.00122	1	04/01/2020 00:38	WG1453460
Toluene	U		0.00152	0.00608	1	04/01/2020 00:38	WG1453460
Ethylbenzene	U		0.000644	0.00304	1	04/01/2020 00:38	WG1453460
Total Xylenes	U		0.00581	0.00790	1	04/01/2020 00:38	WG1453460
(S) Toluene-d8	109			75.0-131		04/01/2020 00:38	WG1453460
(S) 4-Bromofluorobenzene	86.1			67.0-138		04/01/2020 00:38	WG1453460
(S) 1,2-Dichloroethane-d4	114			70.0-130		04/01/2020 00:38	WG1453460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.96	4.86	1	04/01/2020 03:37	WG1453354
C28-C40 Oil Range	0.375	J	0.333	4.86	1	04/01/2020 03:37	WG1453354
(S) o-Terphenyl	59.4			18.0-148		04/01/2020 03:37	WG1453354

Collected date/time: 03/27/20 16:00

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.6		1	03/31/2020 12:41	WG1453252

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	35.7		0.798	10.0	1	03/31/2020 22:46	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	03/31/2020 20:39	WG1453433
(S) a,a,a-Trifluorotoluene(FID)	97.4			77.0-120		03/31/2020 20:39	WG1453433

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000401	0.00100	1	04/01/2020 00:57	WG1453460
Toluene	U		0.00125	0.00502	1	04/01/2020 00:57	WG1453460
Ethylbenzene	U		0.000532	0.00251	1	04/01/2020 00:57	WG1453460
Total Xylenes	U		0.00480	0.00652	1	04/01/2020 00:57	WG1453460
(S) Toluene-d8	112			75.0-131		04/01/2020 00:57	WG1453460
(S) 4-Bromofluorobenzene	84.4			67.0-138		04/01/2020 00:57	WG1453460
(S) 1,2-Dichloroethane-d4	116			70.0-130		04/01/2020 00:57	WG1453460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.62	4.01	1	04/01/2020 04:09	WG1453354
C28-C40 Oil Range	1.09	J	0.275	4.01	1	04/01/2020 04:09	WG1453354
(S) o-Terphenyl	67.9			18.0-148		04/01/2020 04:09	WG1453354

Collected date/time: 03/27/20 16:10

L1204037

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.4		1	03/31/2020 12:41	WG1453252

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	25.2		0.816	10.3	1	03/31/2020 22:55	WG1453198

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0310	B J	0.0223	0.103	1	04/01/2020 12:35	WG1453609
(S) a,a,a-Trifluorotoluene(FID)	95.2			77.0-120		04/01/2020 12:35	WG1453609

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000410	0.00103	1	04/01/2020 01:17	WG1453460
Toluene	U		0.00128	0.00513	1	04/01/2020 01:17	WG1453460
Ethylbenzene	U		0.000544	0.00257	1	04/01/2020 01:17	WG1453460
Total Xylenes	U		0.00491	0.00667	1	04/01/2020 01:17	WG1453460
(S) Toluene-d8	115			75.0-131		04/01/2020 01:17	WG1453460
(S) 4-Bromofluorobenzene	87.3			67.0-138		04/01/2020 01:17	WG1453460
(S) 1,2-Dichloroethane-d4	108			70.0-130		04/01/2020 01:17	WG1453460

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.65	4.10	1	04/01/2020 03:53	WG1453354
C28-C40 Oil Range	1.02	J	0.281	4.10	1	04/01/2020 03:53	WG1453354
(S) o-Terphenyl	57.8			18.0-148		04/01/2020 03:53	WG1453354

Method Blank (MB)

(MB) R3514540-1 03/31/20 12:14

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

L1204037-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1204037-01 03/31/20 12:14 • (DUP) R3514540-3 03/31/20 12:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	97.8	97.9	1	0.0550		10

Laboratory Control Sample (LCS)

(LCS) R3514540-2 03/31/20 12:14

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

[L1204037-08,09,10,11,12,13,14,15,16,17](#)

Method Blank (MB)

(MB) R3514545-1 03/31/20 12:25

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1204037-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1204037-17 03/31/20 12:25 • (DUP) R3514545-3 03/31/20 12:25

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	91.3	91.3	1	0.0774		10

Laboratory Control Sample (LCS)

(LCS) R3514545-2 03/31/20 12:25

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

W01433252
Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

[L1204037-18,19,20,21,22,23,24,25,26](#)

Method Blank (MB)

(MB) R3514572-1 03/31/20 12:41

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

L1204037-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1204037-23 03/31/20 12:41 • (DUP) R3514572-3 03/31/20 12:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	86.4	86.7	1	0.364		10

Laboratory Control Sample (LCS)

(LCS) R3514572-2 03/31/20 12:41

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 300.0 L1204037-01,02,03,04,05,06

Method Blank (MB)

(MB) R3514564-1 03/31/20 16:44

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1203015-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1203015-01 03/31/20 18:31 • (DUP) R3514564-3 03/31/20 18:49

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP RPD Limits %
Chloride	106	113	1	6.82	20

L1204079-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1204079-01 04/01/20 00:30 • (DUP) R3514564-6 04/01/20 00:47

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

Laboratory Control Sample (LCS)

(LCS) R3514564-2 03/31/20 17:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	197	98.7	90.0-110	

L1203015-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1203015-02 03/31/20 19:43 • (MS) R3514564-4 03/31/20 20:01 • (MSD) R3514564-5 03/31/20 20:19

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	ND	505	506	100	101	1	80.0-120			0.240	20

Wet Chemistry by Method 300.0

L1204037-07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26

Method Blank (MB)

(MB) R3514467-1 03/31/20 18:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	1.89	⬇	0.795	10.0

L1204037-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1204037-07 03/31/20 18:48 • (DUP) R3514467-3 03/31/20 18:57

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	7.99	7.80	1	2.33	⬇	20

L1204037-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1204037-26 03/31/20 22:55 • (DUP) R3514467-6 03/31/20 23:05

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	25.2	27.5	1	8.65		20

Laboratory Control Sample (LCS)

(LCS) R3514467-2 03/31/20 18:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	186	92.9	90.0-110	

L1204037-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1204037-14 03/31/20 20:23 • (MS) R3514467-4 03/31/20 20:33 • (MSD) R3514467-5 03/31/20 20:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	522	4.93	502	522	95.3	99.1	1	80.0-120			3.89	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3514423-2 03/31/20 10:27

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

Laboratory Control Sample (LCS)

(LCS) R3514423-1 03/31/20 09:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.51	100	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120	

L1204037-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1204037-01 03/31/20 13:49 • (MS) R3514423-3 03/31/20 18:35 • (MSD) R3514423-4 03/31/20 18:56

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.62	0.0281	3.82	3.87	67.5	68.4	1	10.0-151			1.33	28
(S) a,a,a-Trifluorotoluene(FID)					101	102		77.0-120				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

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

[L1204037-14,15,16,17,19,20,21,22,23,24,25](#)

Method Blank (MB)

(MB) R3514445-2 03/31/20 10:33

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

Laboratory Control Sample (LCS)

(LCS) R3514445-1 03/31/20 09:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.14	93.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			104	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

[L1204037-18,26](#)

Method Blank (MB)

(MB) R3514655-2 04/01/20 11:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0261	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3514655-1 04/01/20 10:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.51	100	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			114	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

L1204037-01,02,03,04,05,06,07,08,09,10,11,12,13

Method Blank (MB)

(MB) R3514425-2 03/31/20 09:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	114			75.0-131
(S) 4-Bromofluorobenzene	91.1			67.0-138
(S) 1,2-Dichloroethane-d4	91.9			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3514425-1 03/31/20 08:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.102	81.6	70.0-123	
Ethylbenzene	0.125	0.109	87.2	74.0-126	
Toluene	0.125	0.110	88.0	75.0-121	
Xylenes, Total	0.375	0.307	81.9	72.0-127	
(S) Toluene-d8			110	75.0-131	
(S) 4-Bromofluorobenzene			92.8	67.0-138	
(S) 1,2-Dichloroethane-d4			99.2	70.0-130	

L1204037-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1204037-13 03/31/20 17:43 • (MS) R3514425-3 03/31/20 19:36 • (MSD) R3514425-4 03/31/20 19:55

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.127	U	0.130	0.130	102	102	1	10.0-149			0.000	37
Ethylbenzene	0.127	U	0.144	0.141	113	110	1	10.0-160			2.15	38
Toluene	0.127	U	0.151	0.149	118	117	1	10.0-156			1.36	38
Xylenes, Total	0.382	U	0.398	0.385	104	101	1	10.0-160			3.38	38
(S) Toluene-d8					114	115		75.0-131				
(S) 4-Bromofluorobenzene					92.5	92.8		67.0-138				
(S) 1,2-Dichloroethane-d4					93.9	94.5		70.0-130				

Volatile Organic Compounds (GC/MS) by Method 8260B L1204037-18,20,21,22,23,24,25,26

Method Blank (MB)

(MB) R3514563-2 03/31/20 21:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	109			75.0-131
(S) 4-Bromofluorobenzene	92.8			67.0-138
(S) 1,2-Dichloroethane-d4	121			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3514563-1 03/31/20 21:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.111	88.8	70.0-123	
Ethylbenzene	0.125	0.101	80.8	74.0-126	
Toluene	0.125	0.108	86.4	75.0-121	
Xylenes, Total	0.375	0.296	78.9	72.0-127	
(S) Toluene-d8			104	75.0-131	
(S) 4-Bromofluorobenzene			90.9	67.0-138	
(S) 1,2-Dichloroethane-d4			117	70.0-130	

L1204037-26 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1204037-26 04/01/20 01:17 • (MS) R3514563-3 04/01/20 01:55 • (MSD) R3514563-4 04/01/20 02:14

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.128	U	0.114	0.133	88.8	104	1	10.0-149			15.8	37
Ethylbenzene	0.128	U	0.106	0.110	82.4	85.6	1	10.0-160			3.81	38
Toluene	0.128	U	0.120	0.127	93.6	99.2	1	10.0-156			5.81	38
Xylenes, Total	0.385	U	0.307	0.337	79.7	87.5	1	10.0-160			9.25	38
(S) Toluene-d8					108	107		75.0-131				
(S) 4-Bromofluorobenzene					90.0	89.9		67.0-138				
(S) 1,2-Dichloroethane-d4					105	111		70.0-130				

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

[L1204037-14,15,16,17,19](#)

Method Blank (MB)

(MB) R3514670-1 04/01/20 10:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	112			75.0-131
(S) 4-Bromofluorobenzene	89.2			67.0-138
(S) 1,2-Dichloroethane-d4	110			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3514670-2 04/01/20 12:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.116	92.8	70.0-123	
Ethylbenzene	0.125	0.101	80.8	74.0-126	
Toluene	0.125	0.109	87.2	75.0-121	
Xylenes, Total	0.375	0.314	83.7	72.0-127	
(S) Toluene-d8			101	75.0-131	
(S) 4-Bromofluorobenzene			94.4	67.0-138	
(S) 1,2-Dichloroethane-d4			121	70.0-130	

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1204037-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3514709-1 04/01/20 09:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.985	⌵	0.274	4.00
(S) o-Terphenyl	69.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3514709-2 04/01/20 09:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	35.4	70.8	50.0-150	
(S) o-Terphenyl			56.5	18.0-148	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

L1204037-21,22,23,24,25,26

Method Blank (MB)

(MB) R3514512-1 03/31/20 23:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	61.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3514512-2 04/01/20 00:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.4	68.8	50.0-150	
(S) o-Terphenyl			80.5	18.0-148	

L1203806-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1203806-18 04/01/20 00:57 • (MS) R3514512-3 04/01/20 01:13 • (MSD) R3514512-4 04/01/20 01:29

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.8	ND	37.4	33.6	75.1	67.6	1	50.0-150			10.7	20
(S) o-Terphenyl					77.7	74.9		18.0-148				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Guide to Reading and Understanding Your Laboratory Report

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

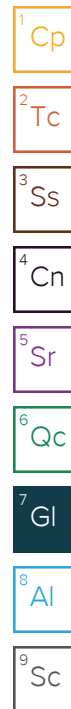
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.



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* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

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

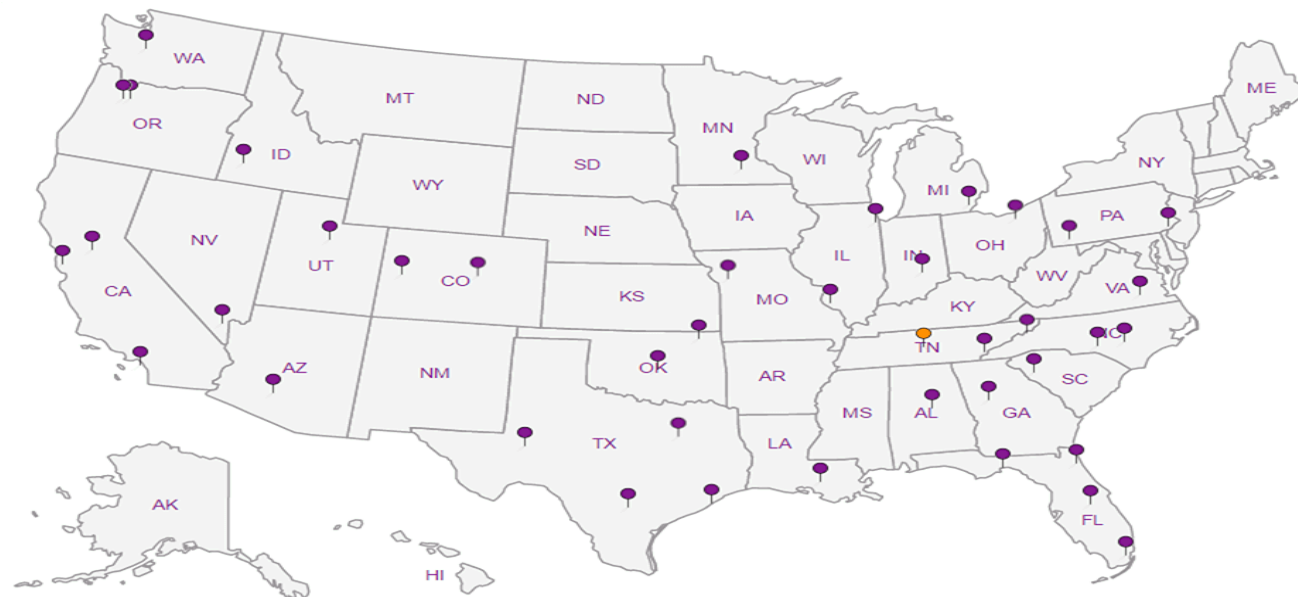
Third Party Federal Accreditations

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

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

Our Locations

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



A052

Page: 1 of 3

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: Conoco Phillips

Site Manager: Christian Llull

Project Name: COP Baish A Battery

Contact Info: Email: christian.llull@tetrattech.com
Phone: (512) 338-1667Project Location: Lea County, New Mexico
(county, state)

Project #: 212C-MD-02120

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

Receiving Laboratory: Pace Analytical

Sampler Signature: *[Signature]*

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTX 8021B	BTX 8260B / 624	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCL	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD	
		YEAR: 2020		WATER	SOIL	HCL	HNO ₃	ICE	NONE																								
		DATE	TIME																														
- C1	FS-4 (4')	03/27/20	1200		X			X			1	N	X	X													X						
02	FS-5 (4')	03/27/20	1210		X			X			1	N	X	X													X						
03	FS-6 (4')	03/27/20	1220		X			X			1	N	X	X													X						
04	FS-10 (4')	03/27/20	1230		X			X			1	N	X	X													X						
05	FS-11 (4')	03/27/20	1240		X			X			1	N	X	X													X						
06	FS-12 (4')	03/27/20	1250		X			X			1	N	X	X													X						
07	FS-13 (4')	03/27/20	1300		X			X			1	N	X	X													X						
08	FS-14 (4')	03/27/20	1310		X			X			1	N	X	X													X						
09	SSW-12	03/27/20	1320		X			X			1	N	X	X													X						
10	SSW-13	03/27/20	1330		X			X			1	N	X	X													X						
		Received by: [Signature]		Date: [Date] Time: [Time]		LAB USE		REMARKS:																									

Relinquished by: *[Signature]*

Date: 3/30/20 Time: 13:00

Received by: *[Signature]*

Date: 3/30/20 Time: 13:00

LAB USE ONLY

REMARKS:

☐ Standard☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.☐ Rush Charges Authorized☐ Special Report Limits or TRRP ReportRelinquished by: *[Signature]*

Date: 3/30/20 Time: 16:30

Received by: *[Signature]*

Date: 3/30/20 Time: 16:30

Sample Temperature

Relinquished by: *[Signature]*

Date: 3/31/20 Time: 8:00

Received by: *[Signature]*

Date: 3/31/20 Time: 8:00

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

0.8+3=1.1^{AS}
CK

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name: Conoco Phillips

Site Manager: Christian Llull

Project Name: COP Baish A Battery

Contact Info: Email: christian.llull@tetratech.com
Phone: (512) 338-1667Project Location: Lea County, New Mexico
(county, state)

Project #: 212C-MD-02120

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

Receiving Laboratory: Pace Analytical

Sampler Signature: *[Signature]*

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B / 6 / 6	TPH TX1005 (Ext to C 35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 6 / 6	GC/MS Semi. Vol. 8270C / 6 / 6	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD	
		YEAR: 2020		WATER	SOIL	HCL	HNO ₃	ICE	NONE																								
		DATE	TIME																														
11	SSW-14	03/27/20	1340		X			X		1	N	X	X													X							
12	SSW-15	03/27/20	1350		X			X		1	N	X	X													X							
13	SSW-16	03/27/20	1400		X			X		1	N	X	X												X								
14	SSW-17	03/27/20	1410		X			X		1	N	X	X												X								
15	SSW-18	03/27/20	1420		X			X		1	N	X	X												X								
16	SSW-19	03/27/20	1430		X			X		1	N	X	X												X								
17	SSW-20	03/27/20	1440		X			X		1	N	X	X												X								
18	SSW-21	03/27/20	1450		X			X		1	N	X	X												X								
19	SSW-22	03/27/20	1500		X			X		1	N	X	X												X								
20	SSW-23	03/27/20	1510		X			X		-1	N	X	X												X								
		Received by: [Signature]		Date: [Date]		Time: [Time]		LAB USE		REMARKS:																							

Relinquished by: *[Signature]*

Date: Time:

Received by: *[Signature]*

Date: Time:

LAB USE ONLY

REMARKS:

☐ Standard☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

Sample Temperature

Relinquished by: *[Signature]*

Date: Time:

Received by: *[Signature]*

Date: Time:

Relinquished by: *[Signature]*

Date: Time:

Received by: *[Signature]*

Date: Time:

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

0.8+301.1 AS
ck

Tetra Tech, Inc.

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

Site Manager: Christian Llull

Contact Info: Email: christian.llull@tetrattech.com
Phone: (512) 338-1667

Project #: 212C-MD-02120

Receiving Laboratory: Pace Analytical

Sampler Signature:

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)[illegible]

Relinquished by:

Date: Time:

Received by:

Date: Time:

LAB USE
ONLY

REMARKS:

☐ Standard

☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.

☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

Sample Temperature

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: _____ Time: _____

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Pace Analytical National Center for Testing & Innovation Cooler Receipt Form

Client: <u>COPTETRA</u>		1204037	
Cooler Received/Opened On: 03 12 31/ 20		Temperature:	1.1 °C
Received By: <u>Sandy Yossef</u>			
Signature: <u>Sandy Yossef</u>			
Receipt Check List		NP	Yes
COC Seal Present / Intact?		/	
COC Signed / Accurate?			/
Bottles arrive intact?			/
Correct bottles used?			/
Sufficient volume sent?			/
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			



ANALYTICAL REPORT

April 07, 2020

ConocoPhillips - Tetra Tech

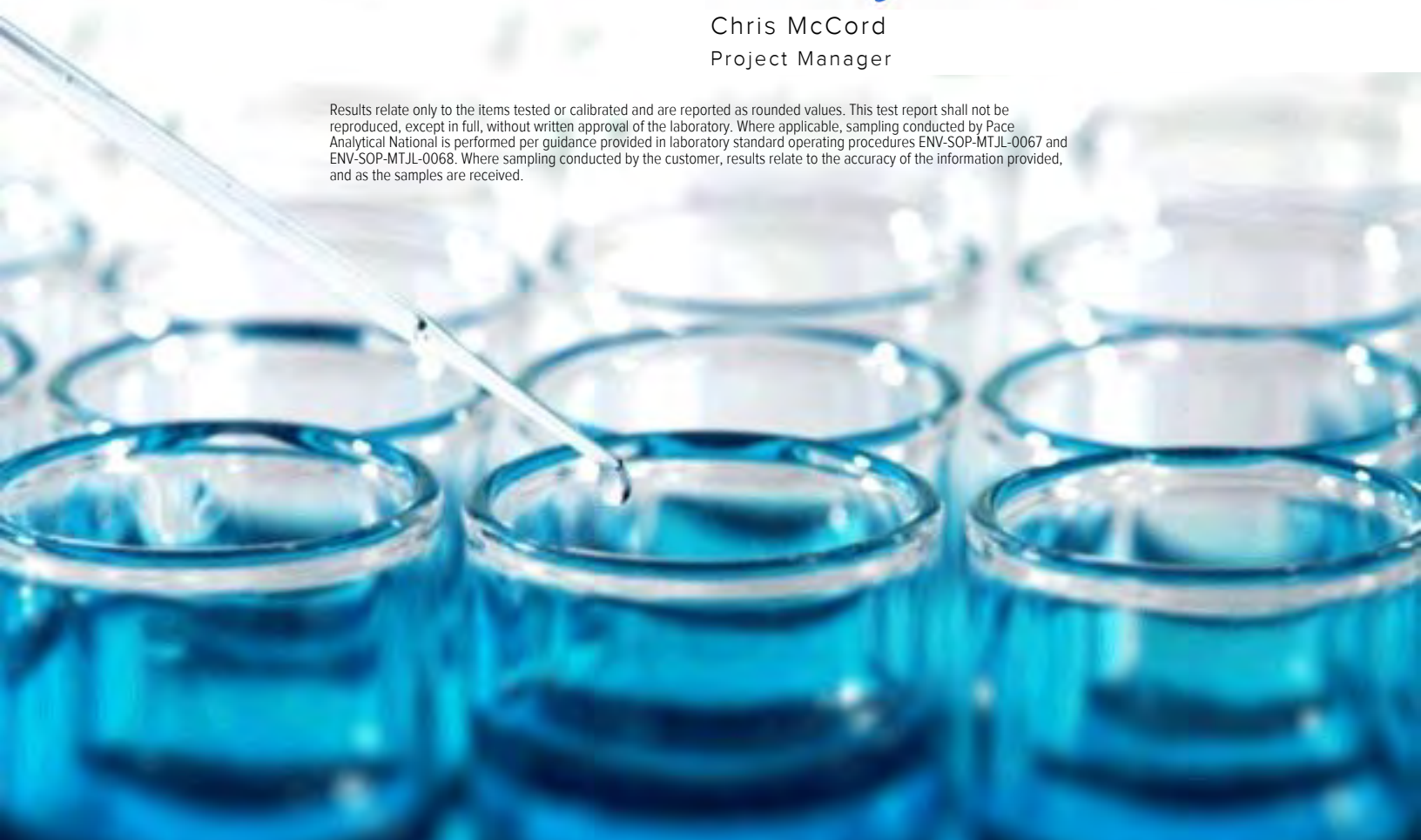
Sample Delivery Group: L1205826
Samples Received: 04/04/2020
Project Number: 212C-MD-02120
Description: COP Baish A Battery

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

Entire Report Reviewed By:

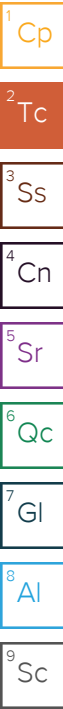
Chris McCord
Project Manager

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



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SSW-1 (1') L1205826-01 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 08:00	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456187	1	04/06/20 17:02	04/06/20 17:09	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 10:44	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1455877	1	04/05/20 13:27	04/05/20 16:33	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 17:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	10	04/06/20 19:03	04/07/20 03:48	KLM	Mt. Juliet, TN

1
Cp2
Tc3
Ss4
Cn

SSW-5 (1') L1205826-02 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 08:20	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456187	1	04/06/20 17:02	04/06/20 17:09	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 11:03	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1455877	1	04/05/20 13:27	04/05/20 17:32	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 18:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 02:07	KLM	Mt. Juliet, TN

5
Sr6
Qc7
Gl8
Al

SSW-6 (1') L1205826-03 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 08:30	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456189	1	04/06/20 16:52	04/06/20 17:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 11:13	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1455877	1	04/05/20 13:27	04/05/20 17:53	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 18:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 02:58	KLM	Mt. Juliet, TN

9
Sc

SSW-7 (1') L1205826-04 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 08:40	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456189	1	04/06/20 16:52	04/06/20 17:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 11:23	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1455877	1	04/05/20 13:27	04/05/20 18:13	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 18:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 03:10	KLM	Mt. Juliet, TN

SSW-8 (2') L1205826-05 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 08:50	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456189	1	04/06/20 16:52	04/06/20 17:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 11:32	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 13:27	04/06/20 13:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 19:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 03:23	KLM	Mt. Juliet, TN

SSW-24 L1205826-06 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 09:00	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456189	1	04/06/20 16:52	04/06/20 17:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 11:42	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1455877	1	04/05/20 13:27	04/05/20 19:53	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 19:22	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 02:45	KLM	Mt. Juliet, TN

1
Cp2
Tc3
Ss4
Cn

ESW-1 L1205826-07 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 09:10	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456189	1	04/06/20 16:52	04/06/20 17:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 11:51	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1455877	1	04/05/20 13:27	04/05/20 20:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 19:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 01:05	KLM	Mt. Juliet, TN

5
Sr6
Qc7
Gl8
Al

ESW-2 L1205826-08 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 09:20	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456189	1	04/06/20 16:52	04/06/20 17:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 12:20	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1455877	1	04/05/20 13:27	04/05/20 20:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 20:01	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 02:20	KLM	Mt. Juliet, TN

9
Sc

ESW-3 L1205826-09 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 09:30	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456189	1	04/06/20 16:52	04/06/20 17:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 12:29	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1455877	1	04/05/20 13:27	04/05/20 20:55	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 20:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 01:54	KLM	Mt. Juliet, TN

NSW-4 L1205826-10 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 09:40	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456189	1	04/06/20 16:52	04/06/20 17:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 12:39	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1455877	1	04/05/20 13:27	04/05/20 21:16	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 20:39	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 02:32	KLM	Mt. Juliet, TN

NSW-5 L1205826-11 Solid

Collected by Joe Tyler
Collected date/time 04/01/20 09:50
Received date/time 04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456189	1	04/06/20 16:52	04/06/20 17:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 13:07	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1455877	1	04/05/20 13:27	04/05/20 21:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 20:58	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 01:42	KLM	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn

NSW-6 L1205826-12 Solid

Collected by Joe Tyler
Collected date/time 04/01/20 10:00
Received date/time 04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456189	1	04/06/20 16:52	04/06/20 17:01	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 13:17	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1455877	1	04/05/20 13:27	04/05/20 21:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 21:17	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	20	04/06/20 19:03	04/07/20 04:01	KLM	Mt. Juliet, TN

⁵ Sr⁶ Qc⁷ Gl⁸ Al

NSW-7 L1205826-13 Solid

Collected by Joe Tyler
Collected date/time 04/01/20 10:10
Received date/time 04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456190	1	04/06/20 16:35	04/06/20 16:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 13:26	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456274	1	04/05/20 13:27	04/06/20 21:09	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 21:36	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 01:30	KLM	Mt. Juliet, TN

⁹ Sc

NSW-8 L1205826-14 Solid

Collected by Joe Tyler
Collected date/time 04/01/20 10:20
Received date/time 04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456190	1	04/06/20 16:35	04/06/20 16:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 13:36	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456628	1	04/07/20 11:35	04/07/20 14:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 21:55	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	10	04/06/20 19:03	04/07/20 04:14	KLM	Mt. Juliet, TN

NSW-9 L1205826-15 Solid

Collected by Joe Tyler
Collected date/time 04/01/20 10:30
Received date/time 04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456190	1	04/06/20 16:35	04/06/20 16:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 13:45	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456274	1	04/05/20 13:27	04/06/20 21:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 22:13	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	10	04/06/20 19:03	04/07/20 11:12	KLM	Mt. Juliet, TN

NSW-13 L1205826-16 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 10:40	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456190	1	04/06/20 16:35	04/06/20 16:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 14:14	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456274	1	04/05/20 13:27	04/06/20 22:10	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 22:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 03:36	KLM	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

NSW-14 L1205826-17 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 10:50	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456190	1	04/06/20 16:35	04/06/20 16:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 14:24	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456913	25	04/06/20 17:23	04/07/20 15:25	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 22:51	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	20	04/06/20 19:03	04/07/20 04:39	KLM	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

FS-7 (4') L1205826-18 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 11:00	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456190	1	04/06/20 16:35	04/06/20 16:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 14:33	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456913	1	04/05/20 13:27	04/07/20 15:46	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 23:10	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	1	04/06/20 19:03	04/07/20 01:18	KLM	Mt. Juliet, TN

9 Sc

FS-8 (4') L1205826-19 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 11:10	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456190	1	04/06/20 16:35	04/06/20 16:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 14:43	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456913	1	04/05/20 13:27	04/07/20 16:07	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455950	1	04/05/20 13:27	04/05/20 23:29	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	10	04/06/20 19:03	04/07/20 11:24	KLM	Mt. Juliet, TN

FS-9 (4') L1205826-20 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 11:20	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456190	1	04/06/20 16:35	04/06/20 16:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455821	1	04/05/20 15:00	04/06/20 14:52	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456913	100	04/05/20 13:27	04/07/20 16:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	8	04/05/20 13:27	04/06/20 05:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456239	20	04/06/20 19:03	04/07/20 04:51	KLM	Mt. Juliet, TN

FS-15 (4') L1205826-21 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 11:30	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456190	1	04/06/20 16:35	04/06/20 16:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 03:11	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 14:36	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/05/20 23:37	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	10	04/06/20 17:09	04/07/20 02:44	KME	Mt. Juliet, TN

FS-16 (4') L1205826-22 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 11:40	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456190	1	04/06/20 16:35	04/06/20 16:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	5	04/05/20 23:05	04/06/20 03:29	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 14:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/05/20 23:57	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/06/20 23:22	KME	Mt. Juliet, TN

FS-17 (4') L1205826-23 Solid

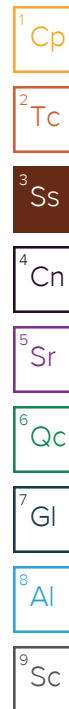
				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 12:00	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456288	1	04/06/20 16:25	04/06/20 16:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	5	04/05/20 23:05	04/06/20 03:39	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 15:20	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 00:17	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 00:02	KME	Mt. Juliet, TN

FS-18 (4') L1205826-24 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 12:10	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456288	1	04/06/20 16:25	04/06/20 16:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 03:48	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 15:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 00:37	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 00:15	KME	Mt. Juliet, TN

FS-19 (4') L1205826-25 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 12:20	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456288	1	04/06/20 16:25	04/06/20 16:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 03:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 16:31	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 00:58	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	40	04/06/20 17:09	04/07/20 03:17	KME	Mt. Juliet, TN



FS-20 (4') L1205826-26 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 12:30	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456288	1	04/06/20 16:25	04/06/20 16:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 04:07	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 16:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 01:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	10	04/06/20 17:09	04/07/20 02:57	KME	Mt. Juliet, TN

FS-21 (4') L1205826-27 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 12:40	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456288	1	04/06/20 16:25	04/06/20 16:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 04:17	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 17:15	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 01:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	40	04/06/20 17:09	04/07/20 11:46	KME	Mt. Juliet, TN

FS-22 (5') L1205826-28 Solid

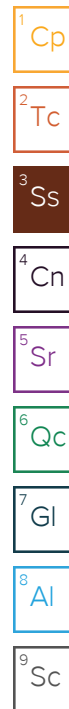
				Collected by Joe Tyler	Collected date/time 04/01/20 12:50	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456288	1	04/06/20 16:25	04/06/20 16:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 04:45	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 17:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 01:58	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 00:28	KME	Mt. Juliet, TN

FS-23 (5') L1205826-29 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 13:00	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456288	1	04/06/20 16:25	04/06/20 16:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 04:55	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 18:00	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 02:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 00:41	KME	Mt. Juliet, TN

FS-24 (5') L1205826-30 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 13:10	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456288	1	04/06/20 16:25	04/06/20 16:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 05:23	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 18:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 02:39	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	40	04/06/20 17:09	04/07/20 04:09	KME	Mt. Juliet, TN



FS-25 (5') L1205826-31 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 13:20	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456288	1	04/06/20 16:25	04/06/20 16:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 05:33	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 18:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 02:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	40	04/06/20 17:09	04/07/20 03:30	KME	Mt. Juliet, TN

FS-26 (5') L1205826-32 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 13:30	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456288	1	04/06/20 16:25	04/06/20 16:34	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 05:42	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 19:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 03:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 00:54	KME	Mt. Juliet, TN

FS-27 (5') L1205826-33 Solid

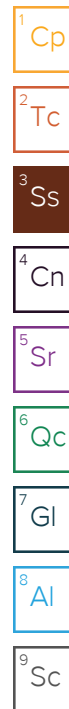
				Collected by Joe Tyler	Collected date/time 04/01/20 13:40	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456289	1	04/06/20 16:16	04/06/20 16:24	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 05:52	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 19:29	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 03:40	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 01:07	KME	Mt. Juliet, TN

FS-28 (5') L1205826-34 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 13:50	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456289	1	04/06/20 16:16	04/06/20 16:24	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 06:01	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 19:51	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 04:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 01:20	KME	Mt. Juliet, TN

FS-29 (5') L1205826-35 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 14:00	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456289	1	04/06/20 16:16	04/06/20 16:24	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 06:11	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 20:14	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 04:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 02:31	KME	Mt. Juliet, TN



FS-30 (5') L1205826-36 Solid

Collected by Joe Tyler
Collected date/time 04/01/20 14:10
Received date/time 04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456289	1	04/06/20 16:16	04/06/20 16:24	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 06:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 22:28	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 04:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 01:47	KME	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	5	04/06/20 17:09	04/07/20 12:12	KME	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

FS-31 (2') L1205826-37 Solid

Collected by Joe Tyler
Collected date/time 04/01/20 14:20
Received date/time 04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456289	1	04/06/20 16:16	04/06/20 16:24	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 06:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456182	1	04/05/20 17:44	04/06/20 22:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 05:01	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 01:34	KME	Mt. Juliet, TN

FS-32 (2') L1205826-38 Solid

Collected by Joe Tyler
Collected date/time 04/01/20 14:30
Received date/time 04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456289	1	04/06/20 16:16	04/06/20 16:24	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 06:59	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456646	500	04/05/20 17:44	04/07/20 15:23	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	8	04/05/20 17:44	04/06/20 06:02	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	40	04/06/20 17:09	04/07/20 03:43	KME	Mt. Juliet, TN

FS-33 (2') L1205826-39 Solid

Collected by Joe Tyler
Collected date/time 04/01/20 14:40
Received date/time 04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456289	1	04/06/20 16:16	04/06/20 16:24	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 07:08	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:44	04/06/20 12:59	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1455990	1	04/05/20 17:44	04/06/20 05:21	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 11:32	KME	Mt. Juliet, TN

FS-34 (2') L1205826-40 Solid

Collected by Joe Tyler
Collected date/time 04/01/20 14:50
Received date/time 04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456289	1	04/06/20 16:16	04/06/20 16:24	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1455822	1	04/05/20 23:05	04/06/20 07:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:44	04/06/20 13:35	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:44	04/06/20 05:26	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456240	1	04/06/20 17:09	04/07/20 02:18	KME	Mt. Juliet, TN

FS-35 (2') L1205826-41 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 15:00	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456289	1	04/06/20 16:16	04/06/20 16:24	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 17:42	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 13:58	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 05:45	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	40	04/06/20 17:07	04/07/20 08:18	KME	Mt. Juliet, TN

FS-36 (2') L1205826-42 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 15:10	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456289	1	04/06/20 16:16	04/06/20 16:24	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 18:01	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 14:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 06:04	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	50	04/06/20 17:07	04/07/20 09:37	KME	Mt. Juliet, TN

FS-37 (2') L1205826-43 Solid

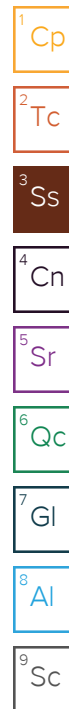
				Collected by Joe Tyler	Collected date/time 04/01/20 15:20	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456290	1	04/06/20 16:06	04/06/20 16:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 18:29	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	100	04/05/20 17:50	04/06/20 21:52	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	8	04/05/20 17:50	04/06/20 06:23	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	20	04/06/20 17:07	04/07/20 08:31	KME	Mt. Juliet, TN

FS-38 (0.5') L1205826-44 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 15:30	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456290	1	04/06/20 16:06	04/06/20 16:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 18:39	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 14:46	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 06:42	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	20	04/06/20 17:07	04/07/20 08:44	KME	Mt. Juliet, TN

FS-39 (0.5') L1205826-45 Solid

				Collected by Joe Tyler	Collected date/time 04/01/20 15:40	Received date/time 04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456290	1	04/06/20 16:06	04/06/20 16:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 18:48	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 15:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 07:01	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	20	04/06/20 17:07	04/07/20 09:23	KME	Mt. Juliet, TN



ISW-1 L1205826-46 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 15:50	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456290	1	04/06/20 16:06	04/06/20 16:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 19:17	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 15:33	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 07:20	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 05:40	KME	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn

ISW-2 L1205826-47 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 16:00	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456290	1	04/06/20 16:06	04/06/20 16:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 19:26	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 15:57	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 07:38	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	20	04/06/20 17:07	04/07/20 08:57	KME	Mt. Juliet, TN

⁵ Sr⁶ Qc⁷ Gl⁸ Al

ISW-3 L1205826-48 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 16:10	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456290	1	04/06/20 16:06	04/06/20 16:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 19:36	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 16:21	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 07:57	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 05:53	KME	Mt. Juliet, TN

⁹ Sc

ISW-4 L1205826-49 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 16:20	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456290	1	04/06/20 16:06	04/06/20 16:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 19:45	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 16:56	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 08:16	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 06:07	KME	Mt. Juliet, TN

ISW-5 L1205826-50 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 16:30	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456290	1	04/06/20 16:06	04/06/20 16:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 19:55	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 17:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 08:35	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	20	04/06/20 17:07	04/07/20 09:10	KME	Mt. Juliet, TN

ISW-6 L1205826-51 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 16:40	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456290	1	04/06/20 16:06	04/06/20 16:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 20:04	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 17:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 08:54	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 06:20	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

ISW-7 L1205826-52 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 16:50	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456290	1	04/06/20 16:06	04/06/20 16:15	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 20:14	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 18:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 09:14	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 06:33	KME	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

ISW-8 L1205826-53 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 17:00	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456626	1	04/07/20 09:20	04/07/20 09:31	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 20:24	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 18:40	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 09:33	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 06:46	KME	Mt. Juliet, TN

9 Sc

ISW-9 L1205826-54 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 17:10	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456626	1	04/07/20 09:20	04/07/20 09:31	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 20:33	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 19:04	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 09:52	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 06:59	KME	Mt. Juliet, TN

ISW-10 L1205826-55 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 17:20	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456626	1	04/07/20 09:20	04/07/20 09:31	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 20:43	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 19:28	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 10:11	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 07:12	KME	Mt. Juliet, TN

ISW-11 L1205826-56 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 17:30	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456626	1	04/07/20 09:20	04/07/20 09:31	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 21:11	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 19:52	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 10:30	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 07:25	KME	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

ISW-12 L1205826-57 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 17:40	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456626	1	04/07/20 09:20	04/07/20 09:31	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 21:21	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456192	1	04/05/20 17:50	04/06/20 20:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 10:48	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	5	04/06/20 17:07	04/07/20 09:50	KME	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

ISW-13 L1205826-58 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 17:50	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456626	1	04/07/20 09:20	04/07/20 09:31	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 21:30	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456387	1	04/05/20 17:50	04/06/20 23:12	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 11:07	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 07:38	KME	Mt. Juliet, TN

9 Sc

ISW-14 L1205826-59 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 18:00	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456626	1	04/07/20 09:20	04/07/20 09:31	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 21:40	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456387	1	04/05/20 17:50	04/06/20 23:32	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456012	1	04/05/20 17:50	04/06/20 11:26	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 07:52	KME	Mt. Juliet, TN

ISW-15 L1205826-60 Solid

				Collected by	Collected date/time	Received date/time
				Joe Tyler	04/01/20 18:10	04/04/20 08:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456626	1	04/07/20 09:20	04/07/20 09:31	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456134	1	04/06/20 11:37	04/06/20 21:49	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456387	1	04/05/20 17:50	04/06/20 23:53	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456070	1	04/05/20 17:50	04/06/20 12:47	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456241	1	04/06/20 17:07	04/07/20 08:05	KME	Mt. Juliet, TN

FS-10 (5") L1205826-61 Solid

Collected by: Joe Tyler
Collected date/time: 04/01/20 18:40
Received date/time: 04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456626	1	04/07/20 09:20	04/07/20 09:31	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456136	1	04/06/20 15:17	04/06/20 23:56	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1456387	1	04/05/20 17:50	04/07/20 00:13	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1456070	1	04/05/20 17:50	04/06/20 13:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1456242	1	04/06/20 19:32	04/07/20 07:36	KLM	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

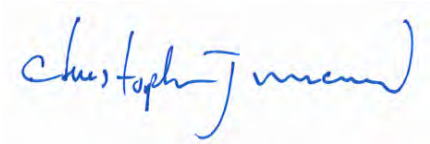
6Qc

7Gl

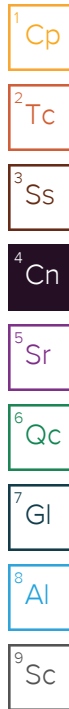
8Al

9Sc

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



Chris McCord
Project Manager



Collected date/time: 04/01/20 08:00

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	04/06/2020 17:09	WG1456187

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	2.22	B J	0.821	10.3	1	04/06/2020 10:44	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0697	B J	0.0224	0.103	1	04/05/2020 16:33	WG1455877
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.2			77.0-120		04/05/2020 16:33	WG1455877

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000439	J	0.000413	0.00103	1	04/05/2020 17:47	WG1455950
Toluene	U		0.00129	0.00516	1	04/05/2020 17:47	WG1455950
Ethylbenzene	0.000697	J	0.000547	0.00258	1	04/05/2020 17:47	WG1455950
Total Xylenes	0.00762		0.00493	0.00671	1	04/05/2020 17:47	WG1455950
(S) <i>Toluene-d8</i>	105			75.0-131		04/05/2020 17:47	WG1455950
(S) <i>4</i> -Bromofluorobenzene	99.1			67.0-138		04/05/2020 17:47	WG1455950
(S) <i>1,2</i> -Dichloroethane- <i>d4</i>	86.1			70.0-130		04/05/2020 17:47	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	229		16.6	41.3	10	04/07/2020 03:48	WG1456239
C28-C40 Oil Range	466		2.83	41.3	10	04/07/2020 03:48	WG1456239
(S) <i>o</i> -Terphenyl	56.9			18.0-148		04/07/2020 03:48	WG1456239

Collected date/time: 04/01/20 08:20

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.9		1	04/06/2020 17:09	WG1456187

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	9.27	B J	0.829	10.4	1	04/06/2020 11:03	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0584	B J	0.0226	0.104	1	04/05/2020 17:32	WG1455877
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.0			77.0-120		04/05/2020 17:32	WG1455877

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	0.000469	J	0.000417	0.00104	1	04/05/2020 18:06	WG1455950
Toluene	U		0.00130	0.00521	1	04/05/2020 18:06	WG1455950
Ethylbenzene	U		0.000553	0.00261	1	04/05/2020 18:06	WG1455950
Total Xylenes	U		0.00498	0.00678	1	04/05/2020 18:06	WG1455950
(S) <i>Toluene-d8</i>	107			75.0-131		04/05/2020 18:06	WG1455950
(S) <i>4-Bromofluorobenzene</i>	95.8			67.0-138		04/05/2020 18:06	WG1455950
(S) <i>1,2-Dichloroethane-d4</i>	91.1			70.0-130		04/05/2020 18:06	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.78	J	1.68	4.17	1	04/07/2020 02:07	WG1456239
C28-C40 Oil Range	11.8		0.286	4.17	1	04/07/2020 02:07	WG1456239
(S) <i>o</i> -Terphenyl	61.4			18.0-148		04/07/2020 02:07	WG1456239

Collected date/time: 04/01/20 08:30

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.8		1	04/06/2020 17:01	WG1456189

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	74.5		0.847	10.7	1	04/06/2020 11:13	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0231	0.107	1	04/05/2020 17:53	WG1455877
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		04/05/2020 17:53	WG1455877

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000426	0.00107	1	04/05/2020 18:25	WG1455950
Toluene	U		0.00133	0.00533	1	04/05/2020 18:25	WG1455950
Ethylbenzene	U		0.000565	0.00266	1	04/05/2020 18:25	WG1455950
Total Xylenes	U		0.00510	0.00693	1	04/05/2020 18:25	WG1455950
(S) Toluene-d8	106			75.0-131		04/05/2020 18:25	WG1455950
(S) 4-Bromofluorobenzene	96.8			67.0-138		04/05/2020 18:25	WG1455950
(S) 1,2-Dichloroethane-d4	89.3			70.0-130		04/05/2020 18:25	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	14.4		1.72	4.26	1	04/07/2020 02:58	WG1456239
C28-C40 Oil Range	43.3		0.292	4.26	1	04/07/2020 02:58	WG1456239
(S) o-Terphenyl	53.3			18.0-148		04/07/2020 02:58	WG1456239

Collected date/time: 04/01/20 08:40

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.2		1	04/06/2020 17:01	WG1456189

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	mg/kg		mg/kg	mg/kg			
Chloride	42.5		0.801	10.1	1	04/06/2020 11:23	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	04/05/2020 18:13	WG1455877
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		04/05/2020 18:13	WG1455877

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	mg/kg		mg/kg	mg/kg			
Benzene	U		0.000403	0.00101	1	04/05/2020 18:44	WG1455950
Toluene	U		0.00126	0.00504	1	04/05/2020 18:44	WG1455950
Ethylbenzene	U		0.000534	0.00252	1	04/05/2020 18:44	WG1455950
Total Xylenes	U		0.00482	0.00655	1	04/05/2020 18:44	WG1455950
(S) Toluene-d8	105			75.0-131		04/05/2020 18:44	WG1455950
(S) 4-Bromofluorobenzene	97.4			67.0-138		04/05/2020 18:44	WG1455950
(S) 1,2-Dichloroethane-d4	94.8			70.0-130		04/05/2020 18:44	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	3.87	J	1.62	4.03	1	04/07/2020 03:10	WG1456239
C28-C40 Oil Range	16.5		0.276	4.03	1	04/07/2020 03:10	WG1456239
(S) o-Terphenyl	63.4			18.0-148		04/07/2020 03:10	WG1456239

Collected date/time: 04/01/20 08:50

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.5		1	04/06/2020 17:01	WG1456189

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	47.1		0.833	10.5	1	04/06/2020 11:32	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0787	B J	0.0227	0.105	1	04/06/2020 13:44	WG1456182
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	112			77.0-120		04/06/2020 13:44	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	04/05/2020 19:03	WG1455950
Toluene	U		0.00131	0.00524	1	04/05/2020 19:03	WG1455950
Ethylbenzene	U		0.000555	0.00262	1	04/05/2020 19:03	WG1455950
Total Xylenes	U		0.00501	0.00681	1	04/05/2020 19:03	WG1455950
(S) <i>Toluene-d8</i>	106			75.0-131		04/05/2020 19:03	WG1455950
(S) <i>4</i> -Bromofluorobenzene	97.1			67.0-138		04/05/2020 19:03	WG1455950
(S) <i>1,2</i> -Dichloroethane- <i>d4</i>	93.6			70.0-130		04/05/2020 19:03	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	16.0		1.69	4.19	1	04/07/2020 03:23	WG1456239
C28-C40 Oil Range	35.3		0.287	4.19	1	04/07/2020 03:23	WG1456239
(S) <i>o</i> -Terphenyl	43.5			18.0-148		04/07/2020 03:23	WG1456239

Collected date/time: 04/01/20 09:00

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.7		1	04/06/2020 17:01	WG1456189

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	3.17	B J	0.831	10.4	1	04/06/2020 11:42	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0227	0.104	1	04/05/2020 19:53	WG1455877
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.1			77.0-120		04/05/2020 19:53	WG1455877

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000418	0.00104	1	04/05/2020 19:22	WG1455950
Toluene	U		0.00131	0.00522	1	04/05/2020 19:22	WG1455950
Ethylbenzene	U		0.000554	0.00261	1	04/05/2020 19:22	WG1455950
Total Xylenes	U		0.00499	0.00679	1	04/05/2020 19:22	WG1455950
(S) <i>Toluene-d8</i>	108			75.0-131		04/05/2020 19:22	WG1455950
(S) <i>4-Bromofluorobenzene</i>	96.0			67.0-138		04/05/2020 19:22	WG1455950
(S) <i>1,2-Dichloroethane-d4</i>	94.0			70.0-130		04/05/2020 19:22	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	6.01		1.68	4.18	1	04/07/2020 02:45	WG1456239
C28-C40 Oil Range	9.84		0.286	4.18	1	04/07/2020 02:45	WG1456239
(S) <i>o</i> -Terphenyl	47.0			18.0-148		04/07/2020 02:45	WG1456239

Collected date/time: 04/01/20 09:10

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	04/06/2020 17:01	WG1456189

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	6.89	B J	0.820	10.3	1	04/06/2020 11:51	WG1455821

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	04/05/2020 20:14	WG1455877
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		04/05/2020 20:14	WG1455877

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000413	0.00103	1	04/05/2020 19:41	WG1455950
Toluene	U		0.00129	0.00516	1	04/05/2020 19:41	WG1455950
Ethylbenzene	U		0.000547	0.00258	1	04/05/2020 19:41	WG1455950
Total Xylenes	U		0.00493	0.00671	1	04/05/2020 19:41	WG1455950
(S) Toluene-d8	104			75.0-131		04/05/2020 19:41	WG1455950
(S) 4-Bromofluorobenzene	95.2			67.0-138		04/05/2020 19:41	WG1455950
(S) 1,2-Dichloroethane-d4	95.4			70.0-130		04/05/2020 19:41	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.89	J	1.66	4.13	1	04/07/2020 01:05	WG1456239
C28-C40 Oil Range	2.86	J	0.283	4.13	1	04/07/2020 01:05	WG1456239
(S) o-Terphenyl	61.3			18.0-148		04/07/2020 01:05	WG1456239

Collected date/time: 04/01/20 09:20

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.1		1	04/06/2020 17:01	WG1456189

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1.63	B J	0.819	10.3	1	04/06/2020 12:20	WG1455821

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	04/05/2020 20:34	WG1455877
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		04/05/2020 20:34	WG1455877

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000412	0.00103	1	04/05/2020 20:01	WG1455950
Toluene	U		0.00129	0.00515	1	04/05/2020 20:01	WG1455950
Ethylbenzene	U		0.000546	0.00257	1	04/05/2020 20:01	WG1455950
Total Xylenes	U		0.00492	0.00669	1	04/05/2020 20:01	WG1455950
(S) Toluene-d8	105			75.0-131		04/05/2020 20:01	WG1455950
(S) 4-Bromofluorobenzene	97.6			67.0-138		04/05/2020 20:01	WG1455950
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		04/05/2020 20:01	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.24	J	1.66	4.12	1	04/07/2020 02:20	WG1456239
C28-C40 Oil Range	6.85		0.282	4.12	1	04/07/2020 02:20	WG1456239
(S) o-Terphenyl	72.0			18.0-148		04/07/2020 02:20	WG1456239

Collected date/time: 04/01/20 09:30

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.0		1	04/06/2020 17:01	WG1456189

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1.84	B J	0.803	10.1	1	04/06/2020 12:29	WG1455821

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	04/05/2020 20:55	WG1455877
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		04/05/2020 20:55	WG1455877

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000404	0.00101	1	04/05/2020 20:20	WG1455950
Toluene	U		0.00126	0.00505	1	04/05/2020 20:20	WG1455950
Ethylbenzene	U		0.000536	0.00253	1	04/05/2020 20:20	WG1455950
Total Xylenes	U		0.00483	0.00657	1	04/05/2020 20:20	WG1455950
(S) Toluene-d8	105			75.0-131		04/05/2020 20:20	WG1455950
(S) 4-Bromofluorobenzene	95.9			67.0-138		04/05/2020 20:20	WG1455950
(S) 1,2-Dichloroethane-d4	97.8			70.0-130		04/05/2020 20:20	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.63	4.04	1	04/07/2020 01:54	WG1456239
C28-C40 Oil Range	4.31		0.277	4.04	1	04/07/2020 01:54	WG1456239
(S) o-Terphenyl	69.3			18.0-148		04/07/2020 01:54	WG1456239

Collected date/time: 04/01/20 09:40

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	04/06/2020 17:01	WG1456189

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	114		0.868	10.9	1	04/06/2020 12:39	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0237	0.109	1	04/05/2020 21:16	WG1455877
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		04/05/2020 21:16	WG1455877

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000437	0.00109	1	04/05/2020 20:39	WG1455950
Toluene	U		0.00137	0.00546	1	04/05/2020 20:39	WG1455950
Ethylbenzene	U		0.000579	0.00273	1	04/05/2020 20:39	WG1455950
Total Xylenes	U		0.00522	0.00710	1	04/05/2020 20:39	WG1455950
(S) Toluene-d8	106			75.0-131		04/05/2020 20:39	WG1455950
(S) 4-Bromofluorobenzene	98.0			67.0-138		04/05/2020 20:39	WG1455950
(S) 1,2-Dichloroethane-d4	100			70.0-130		04/05/2020 20:39	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.76	4.37	1	04/07/2020 02:32	WG1456239
C28-C40 Oil Range	5.18		0.299	4.37	1	04/07/2020 02:32	WG1456239
(S) o-Terphenyl	69.8			18.0-148		04/07/2020 02:32	WG1456239

Collected date/time: 04/01/20 09:50

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.9		1	04/06/2020 17:01	WG1456189

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	39.6		0.796	10.0	1	04/06/2020 13:07	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	04/05/2020 21:36	WG1455877
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		04/05/2020 21:36	WG1455877

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000401	0.00100	1	04/05/2020 20:58	WG1455950
Toluene	U		0.00125	0.00501	1	04/05/2020 20:58	WG1455950
Ethylbenzene	U		0.000531	0.00250	1	04/05/2020 20:58	WG1455950
Total Xylenes	U		0.00479	0.00651	1	04/05/2020 20:58	WG1455950
(S) Toluene-d8	106			75.0-131		04/05/2020 20:58	WG1455950
(S) 4-Bromofluorobenzene	97.6			67.0-138		04/05/2020 20:58	WG1455950
(S) 1,2-Dichloroethane-d4	96.9			70.0-130		04/05/2020 20:58	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.01	1	04/07/2020 01:42	WG1456239
C28-C40 Oil Range	4.11		0.274	4.01	1	04/07/2020 01:42	WG1456239
(S) o-Terphenyl	74.8			18.0-148		04/07/2020 01:42	WG1456239

Collected date/time: 04/01/20 10:00

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.4		1	04/06/2020 17:01	WG1456189

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	246		0.808	10.2	1	04/06/2020 13:17	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.102	1	04/05/2020 21:57	WG1455877
(S) a,a,a-Trifluorotoluene(FID)	94.4			77.0-120		04/05/2020 21:57	WG1455877

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000406	0.00102	1	04/05/2020 21:17	WG1455950
Toluene	U		0.00127	0.00508	1	04/05/2020 21:17	WG1455950
Ethylbenzene	U		0.000538	0.00254	1	04/05/2020 21:17	WG1455950
Total Xylenes	U		0.00486	0.00660	1	04/05/2020 21:17	WG1455950
(S) Toluene-d8	107			75.0-131		04/05/2020 21:17	WG1455950
(S) 4-Bromofluorobenzene	95.0			67.0-138		04/05/2020 21:17	WG1455950
(S) 1,2-Dichloroethane-d4	91.5			70.0-130		04/05/2020 21:17	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	133		32.7	81.3	20	04/07/2020 04:01	WG1456239
C28-C40 Oil Range	337		5.57	81.3	20	04/07/2020 04:01	WG1456239
(S) o-Terphenyl	68.2	J7		18.0-148		04/07/2020 04:01	WG1456239

Collected date/time: 04/01/20 10:10

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.9		1	04/06/2020 16:43	WG1456190

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	131		0.804	10.1	1	04/06/2020 13:26	WG1455821

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0495	B J	0.0219	0.101	1	04/06/2020 21:09	WG1456274
(S) a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		04/06/2020 21:09	WG1456274

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000404	0.00101	1	04/05/2020 21:36	WG1455950
Toluene	U		0.00126	0.00505	1	04/05/2020 21:36	WG1455950
Ethylbenzene	U		0.000536	0.00253	1	04/05/2020 21:36	WG1455950
Total Xylenes	U		0.00483	0.00657	1	04/05/2020 21:36	WG1455950
(S) Toluene-d8	107			75.0-131		04/05/2020 21:36	WG1455950
(S) 4-Bromofluorobenzene	96.1			67.0-138		04/05/2020 21:36	WG1455950
(S) 1,2-Dichloroethane-d4	92.4			70.0-130		04/05/2020 21:36	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.63	4.04	1	04/07/2020 01:30	WG1456239
C28-C40 Oil Range	2.87	J	0.277	4.04	1	04/07/2020 01:30	WG1456239
(S) o-Terphenyl	61.8			18.0-148		04/07/2020 01:30	WG1456239

Collected date/time: 04/01/20 10:20

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	98.7		1	04/06/2020 16:43	WG1456190

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	132		0.805	10.1	1	04/06/2020 13:36	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	04/07/2020 14:12	WG1456628
(S) a,a,a-Trifluorotoluene(FID)	93.0			77.0-120		04/07/2020 14:12	WG1456628

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000405	0.00101	1	04/05/2020 21:55	WG1455950
Toluene	U		0.00127	0.00506	1	04/05/2020 21:55	WG1455950
Ethylbenzene	U		0.000537	0.00253	1	04/05/2020 21:55	WG1455950
Total Xylenes	U		0.00484	0.00658	1	04/05/2020 21:55	WG1455950
(S) Toluene-d8	107			75.0-131		04/05/2020 21:55	WG1455950
(S) 4-Bromofluorobenzene	95.1			67.0-138		04/05/2020 21:55	WG1455950
(S) 1,2-Dichloroethane-d4	94.4			70.0-130		04/05/2020 21:55	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	460		16.3	40.5	10	04/07/2020 04:14	WG1456239
C28-C40 Oil Range	641		2.77	40.5	10	04/07/2020 04:14	WG1456239
(S) o-Terphenyl	61.4			18.0-148		04/07/2020 04:14	WG1456239

Collected date/time: 04/01/20 10:30

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.4		1	04/06/2020 16:43	WG1456190

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	32.7		0.808	10.2	1	04/06/2020 13:45	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0381	B J	0.0221	0.102	1	04/06/2020 21:50	WG1456274
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.0			77.0-120		04/06/2020 21:50	WG1456274

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000407	0.00102	1	04/05/2020 22:13	WG1455950
Toluene	U		0.00127	0.00508	1	04/05/2020 22:13	WG1455950
Ethylbenzene	U		0.000539	0.00254	1	04/05/2020 22:13	WG1455950
Total Xylenes	U		0.00486	0.00661	1	04/05/2020 22:13	WG1455950
(S) <i>Toluene-d8</i>	106			75.0-131		04/05/2020 22:13	WG1455950
(S) <i>4</i> -Bromofluorobenzene	96.8			67.0-138		04/05/2020 22:13	WG1455950
(S) <i>1,2</i> -Dichloroethane- <i>d4</i>	98.9			70.0-130		04/05/2020 22:13	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	46.7		16.4	40.7	10	04/07/2020 11:12	WG1456239
C28-C40 Oil Range	93.2		2.79	40.7	10	04/07/2020 11:12	WG1456239
(S) <i>o</i> -Terphenyl	66.5			18.0-148		04/07/2020 11:12	WG1456239

Collected date/time: 04/01/20 10:40

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.5		1	04/06/2020 16:43	WG1456190

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1.49	B J	0.815	10.3	1	04/06/2020 14:14	WG1455821

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0393	B J	0.0223	0.103	1	04/06/2020 22:10	WG1456274
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		04/06/2020 22:10	WG1456274

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000410	0.00103	1	04/05/2020 22:32	WG1455950
Toluene	U		0.00128	0.00513	1	04/05/2020 22:32	WG1455950
Ethylbenzene	U		0.000543	0.00256	1	04/05/2020 22:32	WG1455950
Total Xylenes	U		0.00490	0.00667	1	04/05/2020 22:32	WG1455950
(S) Toluene-d8	105			75.0-131		04/05/2020 22:32	WG1455950
(S) 4-Bromofluorobenzene	96.8			67.0-138		04/05/2020 22:32	WG1455950
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		04/05/2020 22:32	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	10.2		1.65	4.10	1	04/07/2020 03:36	WG1456239
C28-C40 Oil Range	34.4		0.281	4.10	1	04/07/2020 03:36	WG1456239
(S) o-Terphenyl	59.0			18.0-148		04/07/2020 03:36	WG1456239

Collected date/time: 04/01/20 10:50

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.5		1	04/06/2020 16:43	WG1456190

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	2.01	B J	0.869	10.9	1	04/06/2020 14:24	WG1455821

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	46.8		0.594	2.73	25	04/07/2020 15:25	WG1456913
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		04/07/2020 15:25	WG1456913

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000437	0.00109	1	04/05/2020 22:51	WG1455950
Toluene	0.00238	J	0.00137	0.00547	1	04/05/2020 22:51	WG1455950
Ethylbenzene	U		0.000579	0.00273	1	04/05/2020 22:51	WG1455950
Total Xylenes	0.166		0.00522	0.00711	1	04/05/2020 22:51	WG1455950
(S) Toluene-d8	135	J1		75.0-131		04/05/2020 22:51	WG1455950
(S) 4-Bromofluorobenzene	230	J1		67.0-138		04/05/2020 22:51	WG1455950
(S) 1,2-Dichloroethane-d4	106			70.0-130		04/05/2020 22:51	WG1455950

Sample Narrative:

L1205826-17 WG1455950: Surrogate failure due to matrix interference

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4300		35.2	87.4	20	04/07/2020 04:39	WG1456239
C28-C40 Oil Range	1980		5.99	87.4	20	04/07/2020 04:39	WG1456239
(S) o-Terphenyl	0.000	J7		18.0-148		04/07/2020 04:39	WG1456239

Collected date/time: 04/01/20 11:00

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.8		1	04/06/2020 16:43	WG1456190

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	76.2		0.838	10.5	1	04/06/2020 14:33	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0400	J	0.0229	0.105	1	04/07/2020 15:46	WG1456913
(S) a,a,a-Trifluorotoluene(FID)	95.1			77.0-120		04/07/2020 15:46	WG1456913

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000422	0.00105	1	04/05/2020 23:10	WG1455950
Toluene	U		0.00132	0.00527	1	04/05/2020 23:10	WG1455950
Ethylbenzene	U		0.000559	0.00264	1	04/05/2020 23:10	WG1455950
Total Xylenes	U		0.00504	0.00686	1	04/05/2020 23:10	WG1455950
(S) Toluene-d8	104			75.0-131		04/05/2020 23:10	WG1455950
(S) 4-Bromofluorobenzene	103			67.0-138		04/05/2020 23:10	WG1455950
(S) 1,2-Dichloroethane-d4	99.7			70.0-130		04/05/2020 23:10	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.22	1	04/07/2020 01:18	WG1456239
C28-C40 Oil Range	1.38	J	0.289	4.22	1	04/07/2020 01:18	WG1456239
(S) o-Terphenyl	58.6			18.0-148		04/07/2020 01:18	WG1456239

Collected date/time: 04/01/20 11:10

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.6		1	04/06/2020 16:43	WG1456190

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	33.9		0.840	10.6	1	04/06/2020 14:43	WG1455821

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0295	J	0.0229	0.106	1	04/07/2020 16:07	WG1456913
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		04/07/2020 16:07	WG1456913

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U	J3	0.000423	0.00106	1	04/05/2020 23:29	WG1455950
Toluene	U	J3	0.00132	0.00528	1	04/05/2020 23:29	WG1455950
Ethylbenzene	U	J3	0.000560	0.00264	1	04/05/2020 23:29	WG1455950
Total Xylenes	U	J3	0.00505	0.00687	1	04/05/2020 23:29	WG1455950
(S) Toluene-d8	106			75.0-131		04/05/2020 23:29	WG1455950
(S) 4-Bromofluorobenzene	97.4			67.0-138		04/05/2020 23:29	WG1455950
(S) 1,2-Dichloroethane-d4	97.0			70.0-130		04/05/2020 23:29	WG1455950

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	49.1		17.0	42.3	10	04/07/2020 11:24	WG1456239
C28-C40 Oil Range	132		2.89	42.3	10	04/07/2020 11:24	WG1456239
(S) o-Terphenyl	64.5			18.0-148		04/07/2020 11:24	WG1456239

Collected date/time: 04/01/20 11:20

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.8		1	04/06/2020 16:43	WG1456190

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	14.5	<u>B</u>	0.839	10.6	1	04/06/2020 14:52	WG1455821

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	458		2.29	10.6	100	04/07/2020 16:27	WG1456913
(S) a,a,a-Trifluorotoluene(FID)	98.3			77.0-120		04/07/2020 16:27	WG1456913

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.00338	0.00844	8	04/06/2020 05:41	WG1455990
Toluene	0.0108	<u>J</u>	0.0106	0.0422	8	04/06/2020 05:41	WG1455990
Ethylbenzene	0.352		0.00447	0.0211	8	04/06/2020 05:41	WG1455990
Total Xylenes	5.24		0.0403	0.0549	8	04/06/2020 05:41	WG1455990
(S) Toluene-d8	103			75.0-131		04/06/2020 05:41	WG1455990
(S) 4-Bromofluorobenzene	106			67.0-138		04/06/2020 05:41	WG1455990
(S) 1,2-Dichloroethane-d4	105			70.0-130		04/06/2020 05:41	WG1455990

Sample Narrative:

L1205826-20 WG1455990: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4330		34.0	84.4	20	04/07/2020 04:51	WG1456239
C28-C40 Oil Range	1580		5.78	84.4	20	04/07/2020 04:51	WG1456239
(S) o-Terphenyl	0.000	<u>J7</u>		18.0-148		04/07/2020 04:51	WG1456239

Collected date/time: 04/01/20 11:30

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.9		1	04/06/2020 16:43	WG1456190

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	89.3		0.847	10.7	1	04/06/2020 03:11	WG1455822

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0891	B J	0.0231	0.107	1	04/06/2020 14:36	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	111			77.0-120		04/06/2020 14:36	WG1456182

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000426	0.00107	1	04/05/2020 23:37	WG1455990
Toluene	U		0.00133	0.00533	1	04/05/2020 23:37	WG1455990
Ethylbenzene	U		0.000565	0.00266	1	04/05/2020 23:37	WG1455990
Total Xylenes	U		0.00509	0.00692	1	04/05/2020 23:37	WG1455990
(S) Toluene-d8	107			75.0-131		04/05/2020 23:37	WG1455990
(S) 4-Bromofluorobenzene	107			67.0-138		04/05/2020 23:37	WG1455990
(S) 1,2-Dichloroethane-d4	104			70.0-130		04/05/2020 23:37	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	27.6	J	17.2	42.6	10	04/07/2020 02:44	WG1456240
C28-C40 Oil Range	77.3		2.92	42.6	10	04/07/2020 02:44	WG1456240
(S) o-Terphenyl	60.6			18.0-148		04/07/2020 02:44	WG1456240

Sample Narrative:

L1205826-21 WG1456240: Cannot run at lower dilution due to viscosity of extract

Collected date/time: 04/01/20 11:40

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.5		1	04/06/2020 16:43	WG1456190

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1160		4.17	52.3	5	04/06/2020 03:29	WG1455822

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0953	B J	0.0227	0.105	1	04/06/2020 14:58	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	112			77.0-120		04/06/2020 14:58	WG1456182

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000419	0.00105	1	04/05/2020 23:57	WG1455990
Toluene	U		0.00131	0.00523	1	04/05/2020 23:57	WG1455990
Ethylbenzene	U		0.000555	0.00262	1	04/05/2020 23:57	WG1455990
Total Xylenes	U		0.00500	0.00681	1	04/05/2020 23:57	WG1455990
(S) Toluene-d8	112			75.0-131		04/05/2020 23:57	WG1455990
(S) 4-Bromofluorobenzene	103			67.0-138		04/05/2020 23:57	WG1455990
(S) 1,2-Dichloroethane-d4	100			70.0-130		04/05/2020 23:57	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.79	J	1.69	4.19	1	04/06/2020 23:22	WG1456240
C28-C40 Oil Range	0.805	J	0.287	4.19	1	04/06/2020 23:22	WG1456240
(S) o-Terphenyl	68.1			18.0-148		04/06/2020 23:22	WG1456240

Collected date/time: 04/01/20 12:00

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.0		1	04/06/2020 16:34	WG1456288

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1680		4.28	53.8	5	04/06/2020 03:39	WG1455822

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0841	B J	0.0233	0.108	1	04/06/2020 15:20	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		04/06/2020 15:20	WG1456182

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000430	0.00108	1	04/06/2020 00:17	WG1455990
Toluene	U		0.00134	0.00538	1	04/06/2020 00:17	WG1455990
Ethylbenzene	U		0.000570	0.00269	1	04/06/2020 00:17	WG1455990
Total Xylenes	U		0.00514	0.00699	1	04/06/2020 00:17	WG1455990
(S) Toluene-d8	112			75.0-131		04/06/2020 00:17	WG1455990
(S) 4-Bromofluorobenzene	104			67.0-138		04/06/2020 00:17	WG1455990
(S) 1,2-Dichloroethane-d4	102			70.0-130		04/06/2020 00:17	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.90	J	1.73	4.30	1	04/07/2020 00:02	WG1456240
C28-C40 Oil Range	2.39	J	0.295	4.30	1	04/07/2020 00:02	WG1456240
(S) o-Terphenyl	60.6			18.0-148		04/07/2020 00:02	WG1456240

Collected date/time: 04/01/20 12:10

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.3		1	04/06/2020 16:34	WG1456288

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	88.7		0.834	10.5	1	04/06/2020 03:48	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0972	B J	0.0228	0.105	1	04/06/2020 15:42	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	112			77.0-120		04/06/2020 15:42	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000420	0.00105	1	04/06/2020 00:37	WG1455990
Toluene	U		0.00131	0.00525	1	04/06/2020 00:37	WG1455990
Ethylbenzene	U		0.000556	0.00262	1	04/06/2020 00:37	WG1455990
Total Xylenes	U		0.00502	0.00682	1	04/06/2020 00:37	WG1455990
(S) Toluene-d8	110			75.0-131		04/06/2020 00:37	WG1455990
(S) 4-Bromofluorobenzene	107			67.0-138		04/06/2020 00:37	WG1455990
(S) 1,2-Dichloroethane-d4	102			70.0-130		04/06/2020 00:37	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.69	4.20	1	04/07/2020 00:15	WG1456240
C28-C40 Oil Range	1.12	J	0.287	4.20	1	04/07/2020 00:15	WG1456240
(S) o-Terphenyl	67.6			18.0-148		04/07/2020 00:15	WG1456240

Collected date/time: 04/01/20 12:20

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.5		1	04/06/2020 16:34	WG1456288

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	54.5		0.878	11.0	1	04/06/2020 03:58	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0934	B J	0.0240	0.110	1	04/06/2020 16:31	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	111			77.0-120		04/06/2020 16:31	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000442	0.00110	1	04/06/2020 00:58	WG1455990
Toluene	U		0.00138	0.00552	1	04/06/2020 00:58	WG1455990
Ethylbenzene	U		0.000586	0.00276	1	04/06/2020 00:58	WG1455990
Total Xylenes	U		0.00528	0.00718	1	04/06/2020 00:58	WG1455990
(S) Toluene-d8	109			75.0-131		04/06/2020 00:58	WG1455990
(S) 4-Bromofluorobenzene	103			67.0-138		04/06/2020 00:58	WG1455990
(S) 1,2-Dichloroethane-d4	104			70.0-130		04/06/2020 00:58	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	418		71.2	177	40	04/07/2020 03:17	WG1456240
C28-C40 Oil Range	963		12.2	177	40	04/07/2020 03:17	WG1456240
(S) o-Terphenyl	91.9	J7		18.0-148		04/07/2020 03:17	WG1456240

Collected date/time: 04/01/20 12:30

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	04/06/2020 16:34	WG1456288

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	95.8		0.842	10.6	1	04/06/2020 04:07	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0689	B J	0.0230	0.106	1	04/06/2020 16:53	WG1456182
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	112			77.0-120		04/06/2020 16:53	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000424	0.00106	1	04/06/2020 01:18	WG1455990
Toluene	U		0.00132	0.00530	1	04/06/2020 01:18	WG1455990
Ethylbenzene	U		0.000562	0.00265	1	04/06/2020 01:18	WG1455990
Total Xylenes	U		0.00506	0.00689	1	04/06/2020 01:18	WG1455990
(S) <i>Toluene-d8</i>	109			75.0-131		04/06/2020 01:18	WG1455990
(S) <i>4-Bromofluorobenzene</i>	102			67.0-138		04/06/2020 01:18	WG1455990
(S) <i>1,2-Dichloroethane-d4</i>	104			70.0-130		04/06/2020 01:18	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	323		17.1	42.4	10	04/07/2020 02:57	WG1456240
C28-C40 Oil Range	466		2.90	42.4	10	04/07/2020 02:57	WG1456240
(S) <i>o</i> -Terphenyl	68.7			18.0-148		04/07/2020 02:57	WG1456240

Collected date/time: 04/01/20 12:40

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.9		1	04/06/2020 16:34	WG1456288

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	22.4		0.846	10.6	1	04/06/2020 04:17	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0716	B J	0.0231	0.106	1	04/06/2020 17:15	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	111			77.0-120		04/06/2020 17:15	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000426	0.00106	1	04/06/2020 01:38	WG1455990
Toluene	U		0.00133	0.00532	1	04/06/2020 01:38	WG1455990
Ethylbenzene	U		0.000564	0.00266	1	04/06/2020 01:38	WG1455990
Total Xylenes	U		0.00509	0.00692	1	04/06/2020 01:38	WG1455990
(S) Toluene-d8	110			75.0-131		04/06/2020 01:38	WG1455990
(S) 4-Bromofluorobenzene	104			67.0-138		04/06/2020 01:38	WG1455990
(S) 1,2-Dichloroethane-d4	104			70.0-130		04/06/2020 01:38	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	151	J	68.6	170	40	04/07/2020 11:46	WG1456240
C28-C40 Oil Range	332		11.7	170	40	04/07/2020 11:46	WG1456240
(S) o-Terphenyl	80.4	J7		18.0-148		04/07/2020 11:46	WG1456240

Sample Narrative:

L1205826-27 WG1456240: Cannot run at lower dilution due to viscosity of extract

Collected date/time: 04/01/20 12:50

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.3		1	04/06/2020 16:34	WG1456288

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	93.5		0.834	10.5	1	04/06/2020 04:45	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0877	B J	0.0228	0.105	1	04/06/2020 17:38	WG1456182
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	113			77.0-120		04/06/2020 17:38	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000420	0.00105	1	04/06/2020 01:58	WG1455990
Toluene	U		0.00131	0.00524	1	04/06/2020 01:58	WG1455990
Ethylbenzene	U		0.000556	0.00262	1	04/06/2020 01:58	WG1455990
Total Xylenes	U		0.00501	0.00682	1	04/06/2020 01:58	WG1455990
(S) <i>Toluene-d8</i>	109			75.0-131		04/06/2020 01:58	WG1455990
(S) <i>4-Bromofluorobenzene</i>	105			67.0-138		04/06/2020 01:58	WG1455990
(S) <i>1,2-Dichloroethane-d4</i>	97.9			70.0-130		04/06/2020 01:58	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.69	4.20	1	04/07/2020 00:28	WG1456240
C28-C40 Oil Range	0.392	J	0.287	4.20	1	04/07/2020 00:28	WG1456240
(S) <i>o</i> -Terphenyl	62.0			18.0-148		04/07/2020 00:28	WG1456240

Collected date/time: 04/01/20 13:00

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.1		1	04/06/2020 16:34	WG1456288

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	69.7		0.811	10.2	1	04/06/2020 04:55	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0809	B J	0.0221	0.102	1	04/06/2020 18:00	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	112			77.0-120		04/06/2020 18:00	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000408	0.00102	1	04/06/2020 02:19	WG1455990
Toluene	U		0.00127	0.00510	1	04/06/2020 02:19	WG1455990
Ethylbenzene	U		0.000540	0.00255	1	04/06/2020 02:19	WG1455990
Total Xylenes	U		0.00487	0.00663	1	04/06/2020 02:19	WG1455990
(S) Toluene-d8	110			75.0-131		04/06/2020 02:19	WG1455990
(S) 4-Bromofluorobenzene	106			67.0-138		04/06/2020 02:19	WG1455990
(S) 1,2-Dichloroethane-d4	101			70.0-130		04/06/2020 02:19	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.64	4.08	1	04/07/2020 00:41	WG1456240
C28-C40 Oil Range	2.59	J	0.279	4.08	1	04/07/2020 00:41	WG1456240
(S) o-Terphenyl	65.8			18.0-148		04/07/2020 00:41	WG1456240

Collected date/time: 04/01/20 13:10

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.9		1	04/06/2020 16:34	WG1456288

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	180		0.829	10.4	1	04/06/2020 05:23	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0777	B J	0.0226	0.104	1	04/06/2020 18:22	WG1456182
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	113			77.0-120		04/06/2020 18:22	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000417	0.00104	1	04/06/2020 02:39	WG1455990
Toluene	U		0.00130	0.00522	1	04/06/2020 02:39	WG1455990
Ethylbenzene	U		0.000553	0.00261	1	04/06/2020 02:39	WG1455990
Total Xylenes	U		0.00499	0.00678	1	04/06/2020 02:39	WG1455990
(S) <i>Toluene-d8</i>	108			75.0-131		04/06/2020 02:39	WG1455990
(S) <i>4-Bromofluorobenzene</i>	106			67.0-138		04/06/2020 02:39	WG1455990
(S) <i>1,2-Dichloroethane-d4</i>	104			70.0-130		04/06/2020 02:39	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	281		67.2	167	40	04/07/2020 04:09	WG1456240
C28-C40 Oil Range	813		11.5	167	40	04/07/2020 04:09	WG1456240
(S) <i>o</i> -Terphenyl	76.2	J7		18.0-148		04/07/2020 04:09	WG1456240

Collected date/time: 04/01/20 13:20

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.0		1	04/06/2020 16:34	WG1456288

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	157		0.828	10.4	1	04/06/2020 05:33	WG1455822

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0830	B J	0.0226	0.104	1	04/06/2020 18:44	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	112			77.0-120		04/06/2020 18:44	WG1456182

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000417	0.00104	1	04/06/2020 02:59	WG1455990
Toluene	U		0.00130	0.00521	1	04/06/2020 02:59	WG1455990
Ethylbenzene	U		0.000552	0.00260	1	04/06/2020 02:59	WG1455990
Total Xylenes	U		0.00498	0.00677	1	04/06/2020 02:59	WG1455990
(S) Toluene-d8	109			75.0-131		04/06/2020 02:59	WG1455990
(S) 4-Bromofluorobenzene	105			67.0-138		04/06/2020 02:59	WG1455990
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		04/06/2020 02:59	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	281		67.1	167	40	04/07/2020 03:30	WG1456240
C28-C40 Oil Range	828		11.5	167	40	04/07/2020 03:30	WG1456240
(S) o-Terphenyl	71.8	J7		18.0-148		04/07/2020 03:30	WG1456240

Collected date/time: 04/01/20 13:30

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	04/06/2020 16:34	WG1456288

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	111		0.821	10.3	1	04/06/2020 05:42	WG1455822

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0951	B J	0.0224	0.103	1	04/06/2020 19:06	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		04/06/2020 19:06	WG1456182

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000413	0.00103	1	04/06/2020 03:20	WG1455990
Toluene	U		0.00129	0.00516	1	04/06/2020 03:20	WG1455990
Ethylbenzene	U		0.000547	0.00258	1	04/06/2020 03:20	WG1455990
Total Xylenes	U		0.00494	0.00671	1	04/06/2020 03:20	WG1455990
(S) Toluene-d8	108			75.0-131		04/06/2020 03:20	WG1455990
(S) 4-Bromofluorobenzene	106			67.0-138		04/06/2020 03:20	WG1455990
(S) 1,2-Dichloroethane-d4	100			70.0-130		04/06/2020 03:20	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.13	1	04/07/2020 00:54	WG1456240
C28-C40 Oil Range	1.14	J	0.283	4.13	1	04/07/2020 00:54	WG1456240
(S) o-Terphenyl	66.4			18.0-148		04/07/2020 00:54	WG1456240

Collected date/time: 04/01/20 13:40

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.9		1	04/06/2020 16:24	WG1456289

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	175		0.838	10.5	1	04/06/2020 05:52	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0866	B J	0.0229	0.105	1	04/06/2020 19:29	WG1456182
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	114			77.0-120		04/06/2020 19:29	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000421	0.00105	1	04/06/2020 03:40	WG1455990
Toluene	U		0.00132	0.00527	1	04/06/2020 03:40	WG1455990
Ethylbenzene	U		0.000558	0.00263	1	04/06/2020 03:40	WG1455990
Total Xylenes	U		0.00504	0.00685	1	04/06/2020 03:40	WG1455990
(S) <i>Toluene-d8</i>	110			75.0-131		04/06/2020 03:40	WG1455990
(S) <i>4-Bromofluorobenzene</i>	105			67.0-138		04/06/2020 03:40	WG1455990
(S) <i>1,2-Dichloroethane-d4</i>	97.7			70.0-130		04/06/2020 03:40	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.45	J	1.70	4.21	1	04/07/2020 01:07	WG1456240
C28-C40 Oil Range	2.05	J	0.289	4.21	1	04/07/2020 01:07	WG1456240
(S) <i>o</i> -Terphenyl	71.2			18.0-148		04/07/2020 01:07	WG1456240

Collected date/time: 04/01/20 13:50

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.7		1	04/06/2020 16:24	WG1456289

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	53.7		0.840	10.6	1	04/06/2020 06:01	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.109	<u>B</u>	0.0229	0.106	1	04/06/2020 19:51	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		04/06/2020 19:51	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000423	0.00106	1	04/06/2020 04:00	WG1455990
Toluene	U		0.00132	0.00528	1	04/06/2020 04:00	WG1455990
Ethylbenzene	U		0.000560	0.00264	1	04/06/2020 04:00	WG1455990
Total Xylenes	U		0.00505	0.00687	1	04/06/2020 04:00	WG1455990
(S) Toluene-d8	109			75.0-131		04/06/2020 04:00	WG1455990
(S) 4-Bromofluorobenzene	102			67.0-138		04/06/2020 04:00	WG1455990
(S) 1,2-Dichloroethane-d4	101			70.0-130		04/06/2020 04:00	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.23	1	04/07/2020 01:20	WG1456240
C28-C40 Oil Range	0.381	<u>J</u>	0.289	4.23	1	04/07/2020 01:20	WG1456240
(S) o-Terphenyl	56.5			18.0-148		04/07/2020 01:20	WG1456240

Collected date/time: 04/01/20 14:00

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.6		1	04/06/2020 16:24	WG1456289

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	20.5		0.878	11.0	1	04/06/2020 06:11	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0962	B J	0.0240	0.110	1	04/06/2020 20:14	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		04/06/2020 20:14	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000442	0.00110	1	04/06/2020 04:20	WG1455990
Toluene	U		0.00138	0.00552	1	04/06/2020 04:20	WG1455990
Ethylbenzene	U		0.000585	0.00276	1	04/06/2020 04:20	WG1455990
Total Xylenes	U		0.00528	0.00718	1	04/06/2020 04:20	WG1455990
(S) Toluene-d8	110			75.0-131		04/06/2020 04:20	WG1455990
(S) 4-Bromofluorobenzene	106			67.0-138		04/06/2020 04:20	WG1455990
(S) 1,2-Dichloroethane-d4	103			70.0-130		04/06/2020 04:20	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.46		1.78	4.42	1	04/07/2020 02:31	WG1456240
C28-C40 Oil Range	18.8		0.302	4.42	1	04/07/2020 02:31	WG1456240
(S) o-Terphenyl	59.2			18.0-148		04/07/2020 02:31	WG1456240

Collected date/time: 04/01/20 14:10

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.3		1	04/06/2020 16:24	WG1456289

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	21.5		0.817	10.3	1	04/06/2020 06:40	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0826	B J	0.0223	0.103	1	04/06/2020 22:28	WG1456182
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	113			77.0-120		04/06/2020 22:28	WG1456182

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000411	0.00103	1	04/06/2020 04:41	WG1455990
Toluene	U		0.00129	0.00514	1	04/06/2020 04:41	WG1455990
Ethylbenzene	U		0.000545	0.00257	1	04/06/2020 04:41	WG1455990
Total Xylenes	U		0.00491	0.00668	1	04/06/2020 04:41	WG1455990
(S) <i>Toluene-d8</i>	107			75.0-131		04/06/2020 04:41	WG1455990
(S) <i>4-Bromofluorobenzene</i>	107			67.0-138		04/06/2020 04:41	WG1455990
(S) <i>1,2-Dichloroethane-d4</i>	104			70.0-130		04/06/2020 04:41	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	108		1.66	4.11	1	04/07/2020 01:47	WG1456240
C28-C40 Oil Range	255		1.41	20.6	5	04/07/2020 12:12	WG1456240
(S) <i>o</i> -Terphenyl	61.6			18.0-148		04/07/2020 01:47	WG1456240
(S) <i>o</i> -Terphenyl	72.9			18.0-148		04/07/2020 12:12	WG1456240

Collected date/time: 04/01/20 14:20

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.1		1	04/06/2020 16:24	WG1456289

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1.88	B J	0.827	10.4	1	04/06/2020 06:49	WG1455822

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0861	B J	0.0226	0.104	1	04/06/2020 22:50	WG1456182
(S) a,a,a-Trifluorotoluene(FID)	112			77.0-120		04/06/2020 22:50	WG1456182

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000416	0.00104	1	04/06/2020 05:01	WG1455990
Toluene	U		0.00130	0.00520	1	04/06/2020 05:01	WG1455990
Ethylbenzene	U		0.000551	0.00260	1	04/06/2020 05:01	WG1455990
Total Xylenes	U		0.00497	0.00676	1	04/06/2020 05:01	WG1455990
(S) Toluene-d8	106			75.0-131		04/06/2020 05:01	WG1455990
(S) 4-Bromofluorobenzene	103			67.0-138		04/06/2020 05:01	WG1455990
(S) 1,2-Dichloroethane-d4	103			70.0-130		04/06/2020 05:01	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.67	4.16	1	04/07/2020 01:34	WG1456240
C28-C40 Oil Range	U		0.285	4.16	1	04/07/2020 01:34	WG1456240
(S) o-Terphenyl	40.8			18.0-148		04/07/2020 01:34	WG1456240

Collected date/time: 04/01/20 14:30

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.5		1	04/06/2020 16:24	WG1456289

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	5.86	B J	0.816	10.3	1	04/06/2020 06:59	WG1455822

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1610		11.2	51.3	500	04/07/2020 15:23	WG1456646
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	98.8			77.0-120		04/07/2020 15:23	WG1456646

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.00328	0.00821	8	04/06/2020 06:02	WG1455990
Toluene	0.169		0.0103	0.0410	8	04/06/2020 06:02	WG1455990
Ethylbenzene	6.03		0.00435	0.0205	8	04/06/2020 06:02	WG1455990
Total Xylenes	29.4		0.0392	0.0534	8	04/06/2020 06:02	WG1455990
(S) <i>Toluene-d8</i>	104			75.0-131		04/06/2020 06:02	WG1455990
(S) <i>4-Bromofluorobenzene</i>	117			67.0-138		04/06/2020 06:02	WG1455990
(S) <i>1,2-Dichloroethane-d4</i>	107			70.0-130		04/06/2020 06:02	WG1455990

Sample Narrative:

L1205826-38 WG1455990: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	11400		66.1	164	40	04/07/2020 03:43	WG1456240
C28-C40 Oil Range	5300		11.3	164	40	04/07/2020 03:43	WG1456240
(S) <i>o</i> -Terphenyl	0.000	J7		18.0-148		04/07/2020 03:43	WG1456240

Collected date/time: 04/01/20 14:40

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.7		1	04/06/2020 16:24	WG1456289

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	8.90	B J	0.814	10.2	1	04/06/2020 07:08	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	04/06/2020 12:59	WG1456192
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.8			77.0-120		04/06/2020 12:59	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000409	0.00102	1	04/06/2020 05:21	WG1455990
Toluene	U		0.00128	0.00512	1	04/06/2020 05:21	WG1455990
Ethylbenzene	U		0.000542	0.00256	1	04/06/2020 05:21	WG1455990
Total Xylenes	U		0.00489	0.00665	1	04/06/2020 05:21	WG1455990
(S) <i>Toluene-d8</i>	110			75.0-131		04/06/2020 05:21	WG1455990
(S) <i>4</i> -Bromofluorobenzene	105			67.0-138		04/06/2020 05:21	WG1455990
(S) <i>1,2</i> -Dichloroethane- <i>d4</i>	103			70.0-130		04/06/2020 05:21	WG1455990

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	12.3		1.65	4.09	1	04/07/2020 11:32	WG1456240
C28-C40 Oil Range	5.98		0.280	4.09	1	04/07/2020 11:32	WG1456240
(S) <i>o</i> -Terphenyl	75.6			18.0-148		04/07/2020 11:32	WG1456240

Collected date/time: 04/01/20 14:50

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.3		1	04/06/2020 16:24	WG1456289

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	mg/kg		mg/kg	mg/kg			
Chloride	4.00	B J P1	0.817	10.3	1	04/06/2020 07:18	WG1455822

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	04/06/2020 13:35	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		04/06/2020 13:35	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	mg/kg		mg/kg	mg/kg			
Benzene	U		0.000411	0.00103	1	04/06/2020 05:26	WG1456012
Toluene	U		0.00128	0.00514	1	04/06/2020 05:26	WG1456012
Ethylbenzene	U		0.000545	0.00257	1	04/06/2020 05:26	WG1456012
Total Xylenes	U		0.00491	0.00668	1	04/06/2020 05:26	WG1456012
(S) Toluene-d8	103			75.0-131		04/06/2020 05:26	WG1456012
(S) 4-Bromofluorobenzene	102			67.0-138		04/06/2020 05:26	WG1456012
(S) 1,2-Dichloroethane-d4	94.8			70.0-130		04/06/2020 05:26	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	3.82	J	1.65	4.11	1	04/07/2020 02:18	WG1456240
C28-C40 Oil Range	13.4		0.282	4.11	1	04/07/2020 02:18	WG1456240
(S) o-Terphenyl	59.6			18.0-148		04/07/2020 02:18	WG1456240

Collected date/time: 04/01/20 15:00

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.1		1	04/06/2020 16:24	WG1456289

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	44.9		0.819	10.3	1	04/06/2020 17:42	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.38		0.0224	0.103	1	04/06/2020 13:58	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	84.0			77.0-120		04/06/2020 13:58	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000412	0.00103	1	04/06/2020 05:45	WG1456012
Toluene	U		0.00129	0.00515	1	04/06/2020 05:45	WG1456012
Ethylbenzene	U		0.000546	0.00258	1	04/06/2020 05:45	WG1456012
Total Xylenes	U		0.00492	0.00670	1	04/06/2020 05:45	WG1456012
(S) Toluene-d8	103			75.0-131		04/06/2020 05:45	WG1456012
(S) 4-Bromofluorobenzene	127			67.0-138		04/06/2020 05:45	WG1456012
(S) 1,2-Dichloroethane-d4	90.9			70.0-130		04/06/2020 05:45	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1550		66.3	165	40	04/07/2020 08:18	WG1456241
C28-C40 Oil Range	1380		11.3	165	40	04/07/2020 08:18	WG1456241
(S) o-Terphenyl	237	J7		18.0-148		04/07/2020 08:18	WG1456241

Collected date/time: 04/01/20 15:10

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.8		1	04/06/2020 16:24	WG1456289

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	13.1	<u>B</u>	0.830	10.4	1	04/06/2020 18:01	WG1456134

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.377		0.0226	0.104	1	04/06/2020 14:22	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	92.7			77.0-120		04/06/2020 14:22	WG1456192

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000417	0.00104	1	04/06/2020 06:04	WG1456012
Toluene	U		0.00130	0.00522	1	04/06/2020 06:04	WG1456012
Ethylbenzene	U		0.000553	0.00261	1	04/06/2020 06:04	WG1456012
Total Xylenes	U		0.00499	0.00678	1	04/06/2020 06:04	WG1456012
(S) Toluene-d8	104			75.0-131		04/06/2020 06:04	WG1456012
(S) 4-Bromofluorobenzene	102			67.0-138		04/06/2020 06:04	WG1456012
(S) 1,2-Dichloroethane-d4	91.6			70.0-130		04/06/2020 06:04	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	835		84.0	209	50	04/07/2020 09:37	WG1456241
C28-C40 Oil Range	844		14.3	209	50	04/07/2020 09:37	WG1456241
(S) o-Terphenyl	160	<u>J7</u>		18.0-148		04/07/2020 09:37	WG1456241

Collected date/time: 04/01/20 15:20

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.3		1	04/06/2020 16:15	WG1456290

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	4.31	B J	0.843	10.6	1	04/06/2020 18:29	WG1456134

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	289		2.30	10.6	100	04/06/2020 21:52	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		04/06/2020 21:52	WG1456192

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.00339	0.00849	8	04/06/2020 06:23	WG1456012
Toluene	U		0.0106	0.0424	8	04/06/2020 06:23	WG1456012
Ethylbenzene	0.0335		0.00450	0.0212	8	04/06/2020 06:23	WG1456012
Total Xylenes	0.797		0.0405	0.0552	8	04/06/2020 06:23	WG1456012
(S) Toluene-d8	103			75.0-131		04/06/2020 06:23	WG1456012
(S) 4-Bromofluorobenzene	121			67.0-138		04/06/2020 06:23	WG1456012
(S) 1,2-Dichloroethane-d4	99.5			70.0-130		04/06/2020 06:23	WG1456012

Sample Narrative:

L1205826-43 WG1456012: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4560		34.2	84.9	20	04/07/2020 08:31	WG1456241
C28-C40 Oil Range	2140		5.81	84.9	20	04/07/2020 08:31	WG1456241
(S) o-Terphenyl	0.000	J7		18.0-148		04/07/2020 08:31	WG1456241

Collected date/time: 04/01/20 15:30

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.1		1	04/06/2020 16:15	WG1456290

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	96.5		0.810	10.2	1	04/06/2020 18:39	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	04/06/2020 14:46	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		04/06/2020 14:46	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000408	0.00102	1	04/06/2020 06:42	WG1456012
Toluene	U		0.00127	0.00509	1	04/06/2020 06:42	WG1456012
Ethylbenzene	U		0.000540	0.00255	1	04/06/2020 06:42	WG1456012
Total Xylenes	U		0.00487	0.00662	1	04/06/2020 06:42	WG1456012
(S) Toluene-d8	103			75.0-131		04/06/2020 06:42	WG1456012
(S) 4-Bromofluorobenzene	102			67.0-138		04/06/2020 06:42	WG1456012
(S) 1,2-Dichloroethane-d4	87.8			70.0-130		04/06/2020 06:42	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	943		32.8	81.5	20	04/07/2020 08:44	WG1456241
C28-C40 Oil Range	1230		5.58	81.5	20	04/07/2020 08:44	WG1456241
(S) o-Terphenyl	148	J7		18.0-148		04/07/2020 08:44	WG1456241

Collected date/time: 04/01/20 15:40

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.9		1	04/06/2020 16:15	WG1456290

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	17.4	<u>B</u>	0.804	10.1	1	04/06/2020 18:48	WG1456134

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	04/06/2020 15:10	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120		04/06/2020 15:10	WG1456192

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000404	0.00101	1	04/06/2020 07:01	WG1456012
Toluene	U		0.00126	0.00506	1	04/06/2020 07:01	WG1456012
Ethylbenzene	U		0.000536	0.00253	1	04/06/2020 07:01	WG1456012
Total Xylenes	U		0.00483	0.00657	1	04/06/2020 07:01	WG1456012
(S) Toluene-d8	104			75.0-131		04/06/2020 07:01	WG1456012
(S) 4-Bromofluorobenzene	102			67.0-138		04/06/2020 07:01	WG1456012
(S) 1,2-Dichloroethane-d4	92.4			70.0-130		04/06/2020 07:01	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	231		32.6	80.9	20	04/07/2020 09:23	WG1456241
C28-C40 Oil Range	413		5.54	80.9	20	04/07/2020 09:23	WG1456241
(S) o-Terphenyl	82.5	<u>J7</u>		18.0-148		04/07/2020 09:23	WG1456241

Collected date/time: 04/01/20 15:50

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.7		1	04/06/2020 16:15	WG1456290

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	26.2	<u>B</u>	0.806	10.1	1	04/06/2020 19:17	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	04/06/2020 15:33	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		04/06/2020 15:33	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000405	0.00101	1	04/06/2020 07:20	WG1456012
Toluene	U		0.00127	0.00507	1	04/06/2020 07:20	WG1456012
Ethylbenzene	U		0.000537	0.00253	1	04/06/2020 07:20	WG1456012
Total Xylenes	U		0.00484	0.00659	1	04/06/2020 07:20	WG1456012
(S) Toluene-d8	103			75.0-131		04/06/2020 07:20	WG1456012
(S) 4-Bromofluorobenzene	100			67.0-138		04/06/2020 07:20	WG1456012
(S) 1,2-Dichloroethane-d4	85.8			70.0-130		04/06/2020 07:20	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.63	4.05	1	04/07/2020 05:40	WG1456241
C28-C40 Oil Range	0.358	<u>J</u>	0.278	4.05	1	04/07/2020 05:40	WG1456241
(S) o-Terphenyl	63.8			18.0-148		04/07/2020 05:40	WG1456241

Collected date/time: 04/01/20 16:00

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.8		1	04/06/2020 16:15	WG1456290

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	51.4		0.805	10.1	1	04/06/2020 19:26	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.101	1	04/06/2020 15:57	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120		04/06/2020 15:57	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000405	0.00101	1	04/06/2020 07:38	WG1456012
Toluene	U		0.00126	0.00506	1	04/06/2020 07:38	WG1456012
Ethylbenzene	U		0.000536	0.00253	1	04/06/2020 07:38	WG1456012
Total Xylenes	U		0.00484	0.00658	1	04/06/2020 07:38	WG1456012
(S) Toluene-d8	105			75.0-131		04/06/2020 07:38	WG1456012
(S) 4-Bromofluorobenzene	99.7			67.0-138		04/06/2020 07:38	WG1456012
(S) 1,2-Dichloroethane-d4	88.9			70.0-130		04/06/2020 07:38	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	209		32.6	81.0	20	04/07/2020 08:57	WG1456241
C28-C40 Oil Range	423		5.55	81.0	20	04/07/2020 08:57	WG1456241
(S) o-Terphenyl	88.2	J7		18.0-148		04/07/2020 08:57	WG1456241

Collected date/time: 04/01/20 16:10

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.0		1	04/06/2020 16:15	WG1456290

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	290		0.864	10.9	1	04/06/2020 19:36	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0236	0.109	1	04/06/2020 16:21	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	97.5			77.0-120		04/06/2020 16:21	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000435	0.00109	1	04/06/2020 07:57	WG1456012
Toluene	U		0.00136	0.00543	1	04/06/2020 07:57	WG1456012
Ethylbenzene	U		0.000576	0.00272	1	04/06/2020 07:57	WG1456012
Total Xylenes	U		0.00519	0.00706	1	04/06/2020 07:57	WG1456012
(S) Toluene-d8	102			75.0-131		04/06/2020 07:57	WG1456012
(S) 4-Bromofluorobenzene	99.7			67.0-138		04/06/2020 07:57	WG1456012
(S) 1,2-Dichloroethane-d4	90.3			70.0-130		04/06/2020 07:57	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.93	J	1.75	4.35	1	04/07/2020 05:53	WG1456241
C28-C40 Oil Range	1.23	J	0.298	4.35	1	04/07/2020 05:53	WG1456241
(S) o-Terphenyl	65.9			18.0-148		04/07/2020 05:53	WG1456241

Collected date/time: 04/01/20 16:20

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.2		1	04/06/2020 16:15	WG1456290

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	325		0.862	10.8	1	04/06/2020 19:45	WG1456134

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0235	0.108	1	04/06/2020 16:56	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	99.2			77.0-120		04/06/2020 16:56	WG1456192

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000434	0.00108	1	04/06/2020 08:16	WG1456012
Toluene	U		0.00136	0.00542	1	04/06/2020 08:16	WG1456012
Ethylbenzene	U		0.000575	0.00271	1	04/06/2020 08:16	WG1456012
Total Xylenes	U		0.00518	0.00705	1	04/06/2020 08:16	WG1456012
(S) Toluene-d8	103			75.0-131		04/06/2020 08:16	WG1456012
(S) 4-Bromofluorobenzene	100			67.0-138		04/06/2020 08:16	WG1456012
(S) 1,2-Dichloroethane-d4	89.6			70.0-130		04/06/2020 08:16	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.22	J	1.75	4.34	1	04/07/2020 06:07	WG1456241
C28-C40 Oil Range	0.544	J	0.297	4.34	1	04/07/2020 06:07	WG1456241
(S) o-Terphenyl	59.5			18.0-148		04/07/2020 06:07	WG1456241

Collected date/time: 04/01/20 16:30

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.1		1	04/06/2020 16:15	WG1456290

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	60.8		0.819	10.3	1	04/06/2020 19:55	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	04/06/2020 17:27	WG1456192
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.1			77.0-120		04/06/2020 17:27	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000412	0.00103	1	04/06/2020 08:35	WG1456012
Toluene	U		0.00129	0.00515	1	04/06/2020 08:35	WG1456012
Ethylbenzene	U		0.000546	0.00257	1	04/06/2020 08:35	WG1456012
Total Xylenes	U		0.00492	0.00669	1	04/06/2020 08:35	WG1456012
(S) <i>Toluene-d8</i>	104			75.0-131		04/06/2020 08:35	WG1456012
(S) <i>4-Bromofluorobenzene</i>	103			67.0-138		04/06/2020 08:35	WG1456012
(S) <i>1,2-Dichloroethane-d4</i>	87.5			70.0-130		04/06/2020 08:35	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	86.9		33.2	82.4	20	04/07/2020 09:10	WG1456241
C28-C40 Oil Range	295		5.64	82.4	20	04/07/2020 09:10	WG1456241
(S) <i>o</i> -Terphenyl	88.7	J7		18.0-148		04/07/2020 09:10	WG1456241

Collected date/time: 04/01/20 16:40

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.2		1	04/06/2020 16:15	WG1456290

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	41.4		0.818	10.3	1	04/06/2020 20:04	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	04/06/2020 17:50	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		04/06/2020 17:50	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000412	0.00103	1	04/06/2020 08:54	WG1456012
Toluene	U		0.00129	0.00514	1	04/06/2020 08:54	WG1456012
Ethylbenzene	U		0.000545	0.00257	1	04/06/2020 08:54	WG1456012
Total Xylenes	U		0.00492	0.00669	1	04/06/2020 08:54	WG1456012
(S) Toluene-d8	103			75.0-131		04/06/2020 08:54	WG1456012
(S) 4-Bromofluorobenzene	101			67.0-138		04/06/2020 08:54	WG1456012
(S) 1,2-Dichloroethane-d4	88.1			70.0-130		04/06/2020 08:54	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.12	1	04/07/2020 06:20	WG1456241
C28-C40 Oil Range	U		0.282	4.12	1	04/07/2020 06:20	WG1456241
(S) o-Terphenyl	56.7			18.0-148		04/07/2020 06:20	WG1456241

Collected date/time: 04/01/20 16:50

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.3		1	04/06/2020 16:15	WG1456290

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	59.7		0.817	10.3	1	04/06/2020 20:14	WG1456134

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	04/06/2020 18:16	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		04/06/2020 18:16	WG1456192

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000411	0.00103	1	04/06/2020 09:14	WG1456012
Toluene	U		0.00128	0.00514	1	04/06/2020 09:14	WG1456012
Ethylbenzene	U		0.000545	0.00257	1	04/06/2020 09:14	WG1456012
Total Xylenes	U		0.00491	0.00668	1	04/06/2020 09:14	WG1456012
(S) Toluene-d8	103			75.0-131		04/06/2020 09:14	WG1456012
(S) 4-Bromofluorobenzene	102			67.0-138		04/06/2020 09:14	WG1456012
(S) 1,2-Dichloroethane-d4	85.9			70.0-130		04/06/2020 09:14	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.82	J	1.66	4.11	1	04/07/2020 06:33	WG1456241
C28-C40 Oil Range	0.542	J	0.282	4.11	1	04/07/2020 06:33	WG1456241
(S) o-Terphenyl	62.5			18.0-148		04/07/2020 06:33	WG1456241

Collected date/time: 04/01/20 17:00

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.7		1	04/07/2020 09:31	WG1456626

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	27.5	<u>B</u>	0.831	10.4	1	04/06/2020 20:24	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0227	0.104	1	04/06/2020 18:40	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		04/06/2020 18:40	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000418	0.00104	1	04/06/2020 09:33	WG1456012
Toluene	U		0.00131	0.00522	1	04/06/2020 09:33	WG1456012
Ethylbenzene	U		0.000554	0.00261	1	04/06/2020 09:33	WG1456012
Total Xylenes	U		0.00499	0.00679	1	04/06/2020 09:33	WG1456012
(S) Toluene-d8	103			75.0-131		04/06/2020 09:33	WG1456012
(S) 4-Bromofluorobenzene	100			67.0-138		04/06/2020 09:33	WG1456012
(S) 1,2-Dichloroethane-d4	84.8			70.0-130		04/06/2020 09:33	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.68	4.18	1	04/07/2020 06:46	WG1456241
C28-C40 Oil Range	U		0.286	4.18	1	04/07/2020 06:46	WG1456241
(S) o-Terphenyl	62.9			18.0-148		04/07/2020 06:46	WG1456241

Collected date/time: 04/01/20 17:10

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.1		1	04/07/2020 09:31	WG1456626

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	13.0	<u>B</u>	0.836	10.5	1	04/06/2020 20:33	WG1456134

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0228	0.105	1	04/06/2020 19:04	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	99.2			77.0-120		04/06/2020 19:04	WG1456192

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000421	0.00105	1	04/06/2020 09:52	WG1456012
Toluene	U		0.00131	0.00526	1	04/06/2020 09:52	WG1456012
Ethylbenzene	U		0.000557	0.00263	1	04/06/2020 09:52	WG1456012
Total Xylenes	U		0.00503	0.00683	1	04/06/2020 09:52	WG1456012
(S) Toluene-d8	104			75.0-131		04/06/2020 09:52	WG1456012
(S) 4-Bromofluorobenzene	101			67.0-138		04/06/2020 09:52	WG1456012
(S) 1,2-Dichloroethane-d4	85.5			70.0-130		04/06/2020 09:52	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.69	4.21	1	04/07/2020 06:59	WG1456241
C28-C40 Oil Range	U		0.288	4.21	1	04/07/2020 06:59	WG1456241
(S) o-Terphenyl	63.2			18.0-148		04/07/2020 06:59	WG1456241

Collected date/time: 04/01/20 17:20

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	04/07/2020 09:31	WG1456626

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	57.3		0.843	10.6	1	04/06/2020 20:43	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	04/06/2020 19:28	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		04/06/2020 19:28	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000424	0.00106	1	04/06/2020 10:11	WG1456012
Toluene	U		0.00132	0.00530	1	04/06/2020 10:11	WG1456012
Ethylbenzene	U		0.000562	0.00265	1	04/06/2020 10:11	WG1456012
Total Xylenes	U		0.00507	0.00689	1	04/06/2020 10:11	WG1456012
(S) Toluene-d8	104			75.0-131		04/06/2020 10:11	WG1456012
(S) 4-Bromofluorobenzene	102			67.0-138		04/06/2020 10:11	WG1456012
(S) 1,2-Dichloroethane-d4	88.6			70.0-130		04/06/2020 10:11	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.57		1.71	4.24	1	04/07/2020 07:12	WG1456241
C28-C40 Oil Range	2.42	J	0.290	4.24	1	04/07/2020 07:12	WG1456241
(S) o-Terphenyl	60.6			18.0-148		04/07/2020 07:12	WG1456241

Collected date/time: 04/01/20 17:30

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.7		1	04/07/2020 09:31	WG1456626

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	41.3		0.822	10.3	1	04/06/2020 21:11	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	04/06/2020 19:52	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	97.5			77.0-120		04/06/2020 19:52	WG1456192

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000413	0.00103	1	04/06/2020 10:30	WG1456012
Toluene	U		0.00129	0.00517	1	04/06/2020 10:30	WG1456012
Ethylbenzene	U		0.000548	0.00258	1	04/06/2020 10:30	WG1456012
Total Xylenes	U		0.00494	0.00672	1	04/06/2020 10:30	WG1456012
(S) Toluene-d8	104			75.0-131		04/06/2020 10:30	WG1456012
(S) 4-Bromofluorobenzene	101			67.0-138		04/06/2020 10:30	WG1456012
(S) 1,2-Dichloroethane-d4	88.7			70.0-130		04/06/2020 10:30	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.13	1	04/07/2020 07:25	WG1456241
C28-C40 Oil Range	U		0.283	4.13	1	04/07/2020 07:25	WG1456241
(S) o-Terphenyl	56.7			18.0-148		04/07/2020 07:25	WG1456241

Collected date/time: 04/01/20 17:40

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.0		1	04/07/2020 09:31	WG1456626

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	120		0.828	10.4	1	04/06/2020 21:21	WG1456134

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	04/06/2020 20:16	WG1456192
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120		04/06/2020 20:16	WG1456192

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000417	0.00104	1	04/06/2020 10:48	WG1456012
Toluene	U		0.00130	0.00521	1	04/06/2020 10:48	WG1456012
Ethylbenzene	U		0.000552	0.00260	1	04/06/2020 10:48	WG1456012
Total Xylenes	U		0.00498	0.00677	1	04/06/2020 10:48	WG1456012
(S) Toluene-d8	104			75.0-131		04/06/2020 10:48	WG1456012
(S) 4-Bromofluorobenzene	103			67.0-138		04/06/2020 10:48	WG1456012
(S) 1,2-Dichloroethane-d4	92.3			70.0-130		04/06/2020 10:48	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	96.3		8.39	20.8	5	04/07/2020 09:50	WG1456241
C28-C40 Oil Range	204		1.43	20.8	5	04/07/2020 09:50	WG1456241
(S) o-Terphenyl	76.4			18.0-148		04/07/2020 09:50	WG1456241

Collected date/time: 04/01/20 17:50

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.1		1	04/07/2020 09:31	WG1456626

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	3.10	B J	0.827	10.4	1	04/06/2020 21:30	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0481	B J	0.0226	0.104	1	04/06/2020 23:12	WG1456387
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.6			77.0-120		04/06/2020 23:12	WG1456387

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000416	0.00104	1	04/06/2020 11:07	WG1456012
Toluene	U		0.00130	0.00520	1	04/06/2020 11:07	WG1456012
Ethylbenzene	U		0.000552	0.00260	1	04/06/2020 11:07	WG1456012
Total Xylenes	U		0.00497	0.00676	1	04/06/2020 11:07	WG1456012
(S) <i>Toluene-d8</i>	103			75.0-131		04/06/2020 11:07	WG1456012
(S) <i>4-Bromofluorobenzene</i>	102			67.0-138		04/06/2020 11:07	WG1456012
(S) <i>1,2-Dichloroethane-d4</i>	91.8			70.0-130		04/06/2020 11:07	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.68	4.16	1	04/07/2020 07:38	WG1456241
C28-C40 Oil Range	0.403	J	0.285	4.16	1	04/07/2020 07:38	WG1456241
(S) <i>o</i> -Terphenyl	49.4			18.0-148		04/07/2020 07:38	WG1456241

Collected date/time: 04/01/20 18:00

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.6		1	04/07/2020 09:31	WG1456626

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	62.3		0.807	10.1	1	04/06/2020 21:40	WG1456134

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0444	B J	0.0220	0.101	1	04/06/2020 23:32	WG1456387
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		04/06/2020 23:32	WG1456387

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000406	0.00101	1	04/06/2020 11:26	WG1456012
Toluene	U		0.00127	0.00507	1	04/06/2020 11:26	WG1456012
Ethylbenzene	U		0.000538	0.00254	1	04/06/2020 11:26	WG1456012
Total Xylenes	U		0.00485	0.00659	1	04/06/2020 11:26	WG1456012
(S) Toluene-d8	103			75.0-131		04/06/2020 11:26	WG1456012
(S) 4-Bromofluorobenzene	99.6			67.0-138		04/06/2020 11:26	WG1456012
(S) 1,2-Dichloroethane-d4	86.8			70.0-130		04/06/2020 11:26	WG1456012

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.63	4.06	1	04/07/2020 07:52	WG1456241
C28-C40 Oil Range	U		0.278	4.06	1	04/07/2020 07:52	WG1456241
(S) o-Terphenyl	74.2			18.0-148		04/07/2020 07:52	WG1456241

Collected date/time: 04/01/20 18:10

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.2		1	04/07/2020 09:31	WG1456626

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	150		0.844	10.6	1	04/06/2020 21:49	WG1456134

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0546	B J	0.0230	0.106	1	04/06/2020 23:53	WG1456387
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	95.3			77.0-120		04/06/2020 23:53	WG1456387

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000425	0.00106	1	04/06/2020 12:47	WG1456070
Toluene	U		0.00133	0.00531	1	04/06/2020 12:47	WG1456070
Ethylbenzene	U		0.000563	0.00265	1	04/06/2020 12:47	WG1456070
Total Xylenes	U		0.00508	0.00690	1	04/06/2020 12:47	WG1456070
(S) <i>Toluene-d8</i>	117			75.0-131		04/06/2020 12:47	WG1456070
(S) <i>4-Bromofluorobenzene</i>	91.1			67.0-138		04/06/2020 12:47	WG1456070
(S) <i>1,2-Dichloroethane-d4</i>	81.6			70.0-130		04/06/2020 12:47	WG1456070

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	33.0		1.71	4.25	1	04/07/2020 08:05	WG1456241
C28-C40 Oil Range	66.4		0.291	4.25	1	04/07/2020 08:05	WG1456241
(S) <i>o</i> -Terphenyl	60.7			18.0-148		04/07/2020 08:05	WG1456241

Collected date/time: 04/01/20 18:40

L1205826

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.1		1	04/07/2020 09:31	WG1456626

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	107		0.827	10.4	1	04/06/2020 23:56	WG1456136

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0530	B J	0.0226	0.104	1	04/07/2020 00:13	WG1456387
(S) a,a,a-Trifluorotoluene(FID)	95.7			77.0-120		04/07/2020 00:13	WG1456387

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U	J3	0.000416	0.00104	1	04/06/2020 13:06	WG1456070
Toluene	U	J3	0.00130	0.00520	1	04/06/2020 13:06	WG1456070
Ethylbenzene	U	J3	0.000551	0.00260	1	04/06/2020 13:06	WG1456070
Total Xylenes	U	J3	0.00497	0.00676	1	04/06/2020 13:06	WG1456070
(S) Toluene-d8	117			75.0-131		04/06/2020 13:06	WG1456070
(S) 4-Bromofluorobenzene	91.4			67.0-138		04/06/2020 13:06	WG1456070
(S) 1,2-Dichloroethane-d4	81.7			70.0-130		04/06/2020 13:06	WG1456070

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.67	4.16	1	04/07/2020 07:36	WG1456242
C28-C40 Oil Range	U		0.285	4.16	1	04/07/2020 07:36	WG1456242
(S) o-Terphenyl	63.2			18.0-148		04/07/2020 07:36	WG1456242

Method Blank (MB)

(MB) R3516262-1 04/06/20 17:09

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

L1205826-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-01 04/06/20 17:09 • (DUP) R3516262-3 04/06/20 17:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	96.9	96.9	1	0.0776		10

Laboratory Control Sample (LCS)

(LCS) R3516262-2 04/06/20 17:09

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

[L1205826-03,04,05,06,07,08,09,10,11,12](#)

Method Blank (MB)

(MB) R3516261-1 04/06/20 17:01

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1205826-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-11 04/06/20 17:01 • (DUP) R3516261-3 04/06/20 17:01

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	99.9	97.7	1	2.22		10

Laboratory Control Sample (LCS)

(LCS) R3516261-2 04/06/20 17:01

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Total Solids by Method 2540 G-2011

[L1205826-13,14,15,16,17,18,19,20,21,22](#)

Method Blank (MB)

(MB) R3516257-1 04/06/20 16:43

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

L1205826-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-21 04/06/20 16:43 • (DUP) R3516257-3 04/06/20 16:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	93.9	93.9	1	0.0833		10

Laboratory Control Sample (LCS)

(LCS) R3516257-2 04/06/20 16:43

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

[L1205826-23,24,25,26,27,28,29,30,31,32](#)

Method Blank (MB)

(MB) R3516256-1 04/06/20 16:34

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

L1205826-23 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-23 04/06/20 16:34 • (DUP) R3516256-3 04/06/20 16:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	93.0	92.9	1	0.0599		10

Laboratory Control Sample (LCS)

(LCS) R3516256-2 04/06/20 16:34

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

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Total Solids by Method 2540 G-2011 [L1205826-33,34,35,36,37,38,39,40,41,42](#)

Method Blank (MB)

(MB) R3516253-1 04/06/20 16:24

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

L1205826-34 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-34 04/06/20 16:24 • (DUP) R3516253-3 04/06/20 16:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	94.7	94.6	1	0.0343		10

Laboratory Control Sample (LCS)

(LCS) R3516253-2 04/06/20 16:24

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011 [L1205826-43,44,45,46,47,48,49,50,51,52](#)

Method Blank (MB)

(MB) R3516251-1 04/06/20 16:15

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

L1205826-50 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-50 04/06/20 16:15 • (DUP) R3516251-3 04/06/20 16:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	97.1	97.0	1	0.0938		10

Laboratory Control Sample (LCS)

(LCS) R3516251-2 04/06/20 16:15

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011 [L1205826-53,54,55,56,57,58,59,60,61](#)

Method Blank (MB)

(MB) R3516387-1 04/07/20 09:31

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

L1205826-61 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-61 04/07/20 09:31 • (DUP) R3516387-3 04/07/20 09:31

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	96.1	96.1	1	0.0127		10

Laboratory Control Sample (LCS)

(LCS) R3516387-2 04/07/20 09:31

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 300.0

[L1205826-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3516012-1 04/06/20 09:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	1.54		0.795	10.0

L1205826-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-01 04/06/20 10:44 • (DUP) R3516012-3 04/06/20 10:54

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2.22	2.35	1	5.41		20

L1205826-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-20 04/06/20 14:52 • (DUP) R3516012-6 04/06/20 15:02

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	14.5	14.3	1	1.03		20

Laboratory Control Sample (LCS)

(LCS) R3516012-2 04/06/20 10:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	187	93.5	90.0-110	

L1205826-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205826-10 04/06/20 12:39 • (MS) R3516012-4 04/06/20 12:48 • (MSD) R3516012-5 04/06/20 12:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	546	114	624	642	93.4	96.7	1	80.0-120			2.81	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Wet Chemistry by Method 300.0

[L1205826-21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40](#)

Method Blank (MB)

(MB) R3515764-1 04/06/20 02:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	1.20	⬇	0.795	10.0

L1205826-21 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-21 04/06/20 03:11 • (DUP) R3515764-3 04/06/20 03:19

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	89.3	80.5	1	10.3		20

L1205826-40 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-40 04/06/20 07:18 • (DUP) R3515764-6 04/06/20 07:27

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4.00	3.23	1	21.4	J P1	20

Laboratory Control Sample (LCS)

(LCS) R3515764-2 04/06/20 02:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	189	94.5	90.0-110	

L1205826-29 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205826-29 04/06/20 04:55 • (MS) R3515764-4 04/06/20 05:04 • (MSD) R3515764-5 04/06/20 05:14

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	510	69.7	564	550	97.0	94.2	1	80.0-120			2.59	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3516135-1 04/06/20 17:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	3.34	⬇	0.795	10.0

L1205826-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-41 04/06/20 17:42 • (DUP) R3516135-3 04/06/20 17:51

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	44.9	48.0	1	6.76		20

L1205826-60 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-60 04/06/20 21:49 • (DUP) R3516135-6 04/06/20 21:59

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	150	143	1	5.11		20

Laboratory Control Sample (LCS)

(LCS) R3516135-2 04/06/20 17:10

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	190	94.9	90.0-110	

L1205826-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205826-42 04/06/20 18:01 • (MS) R3516135-4 04/06/20 18:10 • (MSD) R3516135-5 04/06/20 18:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	522	13.1	516	517	96.3	96.6	1	80.0-120			0.276	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 300.0 [L1205826-61](#)

Method Blank (MB)

(MB) R3516088-1 04/06/20 17:46

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	1.49	⌵	0.795	10.0

L1205630-16 Original Sample (OS) • Duplicate (DUP)

(OS) L1205630-16 04/06/20 19:38 • (DUP) R3516088-3 04/06/20 19:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	14.2	17.2	1	18.8		20

L1205826-61 Original Sample (OS) • Duplicate (DUP)

(OS) L1205826-61 04/06/20 23:56 • (DUP) R3516088-6 04/07/20 00:15

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	107	94.3	1	13.0		20

Laboratory Control Sample (LCS)

(LCS) R3516088-2 04/06/20 18:04

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	197	98.4	90.0-110	

L1205788-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205788-04 04/06/20 21:10 • (MS) R3516088-4 04/06/20 21:29 • (MSD) R3516088-5 04/06/20 21:47

	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	21.1	495	521	94.9	100	1	80.0-120			5.06	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3515989-2 04/05/20 13:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0293	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	97.5			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3515989-1 04/05/20 12:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.65	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			114	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

[L1205826-05,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37](#)

Method Blank (MB)

(MB) R3515941-2 04/06/20 12:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0624		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3515941-1 04/06/20 09:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.82	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			112	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

[L1205826-39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57](#)

Method Blank (MB)

(MB) R3516176-2 04/06/20 11:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3516176-1 04/06/20 10:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.17	75.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

L1205826-43 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205826-43 04/06/20 21:52 • (MS) R3516176-3 04/06/20 22:16 • (MSD) R3516176-4 04/06/20 22:40

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	583	289	661	870	63.8	99.6	100	10.0-151			27.3	28
(S) a,a,a-Trifluorotoluene(FID)					105	106		77.0-120				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

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

[L1205826-13,15,16](#)

Method Blank (MB)

(MB) R3516168-3 04/06/20 20:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0268		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3516168-2 04/06/20 19:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.36	97.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			109	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3516169-3 04/06/20 20:14

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0268	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3516169-2 04/06/20 19:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.36	97.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			109	77.0-120	

L1205630-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205630-18 04/07/20 03:18 • (MS) R3516169-6 04/07/20 04:40 • (MSD) R3516169-7 04/07/20 05:00

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	2750	446	2860	3080	87.8	95.8	500	10.0-151			7.41	28
(S) a,a,a-Trifluorotoluene(FID)					106	109		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

L1205826-14

Method Blank (MB)

(MB) R3516426-2 04/07/20 13:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3516426-1 04/07/20 11:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.38	116	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

L1205826-38

Method Blank (MB)

(MB) R3516427-2 04/07/20 13:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3516427-1 04/07/20 11:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.38	116	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

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

L1205826-17,18,19,20

Method Blank (MB)

(MB) R3516436-3 04/06/20 20:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.3			77.0-120

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

(LCS) R3516436-1 04/06/20 19:45 • (LCSD) R3516436-2 04/06/20 20:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.85	5.75	106	105	72.0-127			1.72	20
(S) a,a,a-Trifluorotoluene(FID)				114	114	77.0-120				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

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

L1205826-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19

Method Blank (MB)

(MB) R3515821-2 04/05/20 14:46

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	94.6			67.0-138
(S) 1,2-Dichloroethane-d4	88.3			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3515821-1 04/05/20 13:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.109	87.2	70.0-123	
Ethylbenzene	0.125	0.131	105	74.0-126	
Toluene	0.125	0.111	88.8	75.0-121	
Xylenes, Total	0.375	0.386	103	72.0-127	
(S) Toluene-d8			105	75.0-131	
(S) 4-Bromofluorobenzene			101	67.0-138	
(S) 1,2-Dichloroethane-d4			100	70.0-130	

L1205826-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205826-19 04/05/20 23:29 • (MS) R3515821-3 04/05/20 23:48 • (MSD) R3515821-4 04/06/20 00:08

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.131	U	0.122	0.0680	92.7	51.9	1	10.0-149		J3	56.4	37
Ethylbenzene	0.131	U	0.144	0.0823	110	62.8	1	10.0-160		J3	54.3	38
Toluene	0.131	U	0.123	0.0724	93.5	55.2	1	10.0-156		J3	51.5	38
Xylenes, Total	0.393	U	0.430	0.256	109	65.1	1	10.0-160		J3	50.8	38
(S) Toluene-d8					105	106		75.0-131				
(S) 4-Bromofluorobenzene					101	99.4		67.0-138				
(S) 1,2-Dichloroethane-d4					94.5	90.1		70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

L1205826-20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39

Method Blank (MB)

(MB) R3516003-2 04/05/20 21:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	109			75.0-131
(S) 4-Bromofluorobenzene	103			67.0-138
(S) 1,2-Dichloroethane-d4	102			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3516003-1 04/05/20 20:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.0993	79.4	70.0-123	
Ethylbenzene	0.125	0.120	96.0	74.0-126	
Toluene	0.125	0.103	82.4	75.0-121	
Xylenes, Total	0.375	0.343	91.5	72.0-127	
(S) Toluene-d8			106	75.0-131	
(S) 4-Bromofluorobenzene			107	67.0-138	
(S) 1,2-Dichloroethane-d4			109	70.0-130	

L1205826-32 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205826-32 04/06/20 03:20 • (MS) R3516003-3 04/06/20 06:22 • (MSD) R3516003-4 04/06/20 06:42

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.129	U	0.0978	0.0917	75.8	71.0	1	10.0-149			6.43	37
Ethylbenzene	0.129	U	0.153	0.121	118	93.6	1	10.0-160			23.4	38
Toluene	0.129	U	0.106	0.101	82.4	78.5	1	10.0-156			4.87	38
Xylenes, Total	0.387	U	0.512	0.355	132	91.7	1	10.0-160			36.2	38
(S) Toluene-d8					106	106		75.0-131				
(S) 4-Bromofluorobenzene					105	106		67.0-138				
(S) 1,2-Dichloroethane-d4					106	108		70.0-130				

Method Blank (MB)

(MB) R3515958-3 04/06/20 04:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	101			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	97.4			70.0-130

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

(LCS) R3515958-1 04/06/20 02:53 • (LCSD) R3515958-2 04/06/20 03:12

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.102	0.105	81.6	84.0	70.0-123			2.90	20
Ethylbenzene	0.125	0.0973	0.100	77.8	80.0	74.0-126			2.74	20
Toluene	0.125	0.105	0.105	84.0	84.0	75.0-121			0.000	20
Xylenes, Total	0.375	0.305	0.310	81.3	82.7	72.0-127			1.63	20
(S) Toluene-d8				99.1	101	75.0-131				
(S) 4-Bromofluorobenzene				101	100	67.0-138				
(S) 1,2-Dichloroethane-d4				99.8	97.7	70.0-130				

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Volatile Organic Compounds (GC/MS) by Method 8260B [L1205826-60.61](#)

Method Blank (MB)

(MB) R3516100-2 04/06/20 09:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	116			75.0-131
(S) 4-Bromofluorobenzene	89.9			67.0-138
(S) 1,2-Dichloroethane-d4	80.6			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3516100-1 04/06/20 08:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.109	87.2	70.0-123	
Ethylbenzene	0.125	0.119	95.2	74.0-126	
Toluene	0.125	0.120	96.0	75.0-121	
Xylenes, Total	0.375	0.341	90.9	72.0-127	
(S) Toluene-d8			115	75.0-131	
(S) 4-Bromofluorobenzene			94.4	67.0-138	
(S) 1,2-Dichloroethane-d4			88.1	70.0-130	

L1205826-61 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205826-61 04/06/20 13:06 • (MS) R3516100-3 04/06/20 18:38 • (MSD) R3516100-4 04/06/20 18:56

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.130	U	0.0652	0.111	50.2	85.6	1	10.0-149		J3	52.2	37
Ethylbenzene	0.130	U	0.0720	0.120	55.4	92.0	1	10.0-160		J3	49.7	38
Toluene	0.130	U	0.0784	0.128	60.3	98.4	1	10.0-156		J3	48.0	38
Xylenes, Total	0.390	U	0.213	0.341	54.7	87.5	1	10.0-160		J3	46.2	38
(S) Toluene-d8					118	116		75.0-131				
(S) 4-Bromofluorobenzene					90.3	89.6		67.0-138				
(S) 1,2-Dichloroethane-d4					81.4	82.9		70.0-130				

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1205826-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20](#)

Method Blank (MB)

(MB) R3516296-1 04/07/20 00:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	66.2			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3516296-2 04/07/20 00:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	39.0	78.0	50.0-150	
(S) o-Terphenyl			56.3	18.0-148	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Semi-Volatile Organic Compounds (GC) by Method 8015 [L1205826-21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40](#)

Method Blank (MB)

(MB) R3516265-1 04/06/20 22:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	70.3			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3516265-2 04/06/20 22:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.9	69.8	50.0-150	
(S) o-Terphenyl			73.4	18.0-148	

L1205826-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1205826-22 04/06/20 23:22 • (MS) R3516265-3 04/06/20 23:35 • (MSD) R3516265-4 04/06/20 23:49

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	51.1	1.79	31.5	36.0	58.2	67.3	1	50.0-150			13.3	20
(S) o-Terphenyl					54.3	62.7		18.0-148				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1205826-41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60](#)

Method Blank (MB)

(MB) R3516266-1 04/06/20 22:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	61.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3516266-2 04/06/20 23:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.3	72.6	50.0-150	
(S) o-Terphenyl			73.4	18.0-148	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

L1205826-61

Method Blank (MB)

(MB) R3516297-1 04/07/20 06:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	69.2			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3516297-2 04/07/20 06:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	33.6	67.2	50.0-150	
(S) o-Terphenyl			49.5	18.0-148	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

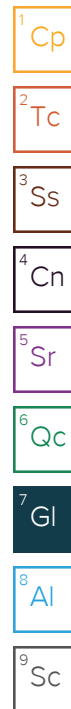
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Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
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.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

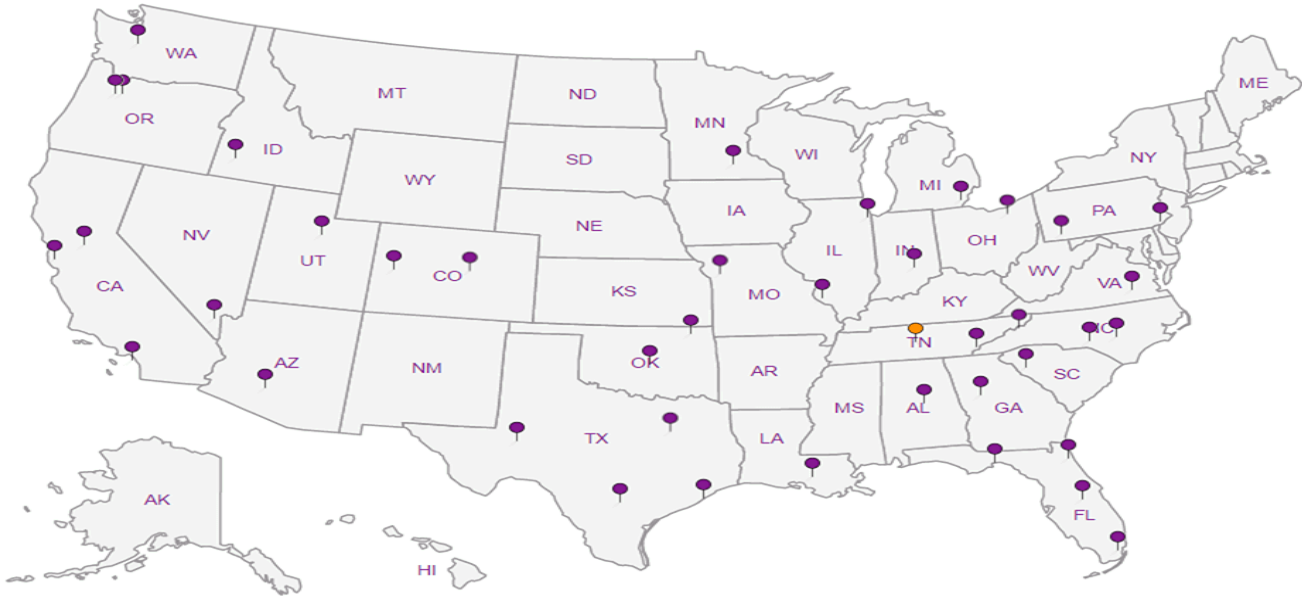
Third Party Federal Accreditations

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

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

Our Locations

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



Analysis Request of Chain of Custody Record

COP-TETRA

Page: 1 of 7

**Tetra Tech, Inc.**901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

L/205826

D243

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	COP Baish A Battery	Contact Info:	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02120
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B / 624	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD		
		YEAR: 2020		WATER	SOIL	HCL	HNO ₃	ICE	NONE																									
		DATE	TIME																															
	SSW-1 (1')	04/01/20	0800		X			X		1	N	X	X														X							
	SSW-1 (2')	04/01/20	0810		X			X		1	N																							X
	SSW-5 (1')	04/01/20	0820		X			X		1	N	X	X														X							
	SSW-6 (1')	04/01/20	0830		X			X		1	N	X	X														X							
	SSW-7 (1')	04/01/20	0840		X			X		1	N	X	X														X							
	SSW-8 (2')	04/01/20	0850		X			X		1	N	X	X														X							
	SSW-24	04/01/20	0900		X			X		1	N	X	X														X							
	ESW-1	04/01/20	0910		X			X		1	N	X	X														X							
	ESW-2	04/01/20	0920		X			X		1	N	X	X														X							
	ESW-3	04/01/20	0930		X			X		1	N	X	X														X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>Bill D. Smith</i>	4-3-20	13:30	<i>Joe Tyler</i>	4-3-20	13:30
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>Joe Tyler</i>	4-3-20	16:30	<i>SWA</i>	4-3-20	16:30
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			<i>Mumma</i>	4-4-20	8:00

LAB USE ONLY

Sample Temperature

REMARKS:

- ☐ Standard
- ☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

04-0037

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Not B 65 total

1.7-.2=15.4
A3

RAD SCREEN: <0.5 mR/hr

Analysis Request of Chain of Custody Record

**Tetra Tech, Inc.**901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

41205826

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	COP Baish A Battery	Contact Info:	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02120
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Joe Tyler
Comments:	COPTETRA Acctnum		

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX			PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX TX1005 (Ext to C10)	GRO - D15M (TPH 8015M)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD	
		YEAR: 2020		WATER	SOIL		HCL	HNO ₃	ICE	NONE																							
		DATE	TIME																														
	NSW-4	04/01/20	0940		X				X		1	N	X	X													X						
	NSW-5	04/01/20	0950		X				X		1	N	X	X													X						
	NSW-6	04/01/20	1000		X				X		1	N	X	X													X						
	NSW-7	04/01/20	1010		X				X		1	N	X	X													X						
	NSW-8	04/01/20	1020		X				X		1	N	X	X													X						
	NSW-9	04/01/20	1030		X				X		1	N	X	X													X						
	NSW-13	04/01/20	1040		X				X		1	N	X	X													X						
	NSW-14	04/01/20	1050		X				X		1	N	X	X													X						
	FS-7 (4')	04/01/20	1100		X				X		1	N	X	X													X						
	FS-8 (4')	04/01/20	1110		X				X		1	N	X	X													X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>[Signature]</i>	4-3-20	13:30	<i>[Signature]</i>	4-3-20	13:30
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>[Signature]</i>	4-3-20	16:30	<i>[Signature]</i>	4-3-20	16:30
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			<i>[Signature]</i>	4-4-20	8:00

LAB USE ONLY

Sample Temperature

REMARKS:

- ☐ Standard
- ☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

No TB 65 total

1.7-2=1.5^u
A3

RAD SCREEN: <0.5 mR/hr



Tetra Tech, Inc.

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

4205826

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	COP Baish A Battery	Contact Info:	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02120
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Joe Tyler
Comments: COPTETRA Acctnum			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTX 8021B	BTX 8260B / 624	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD	
		YEAR: 2020		WATER	SOIL	HCL	HNO ₃	ICE	NONE																								
		DATE	TIME																														
	FS-9 (4')	04/01/20	1120		X			X		1	N	X	X														X						
	FS-15 (4')	04/01/20	1130		X			X		1	N	X	X														X						
	FS-16 (4')	04/01/20	1140		X			X		1	N	X	X														X						
	FS-17 (4')	04/01/20	1200		X			X		1	N	X	X														X						
	FS-18 (4')	04/01/20	1210		X			X		1	N	X	X														X						
	FS-19 (4')	04/01/20	1220		X			X		1	N	X	X														X						
	FS-20 (4')	04/01/20	1230		X			X		1	N	X	X														X						
	FS-21 (4')	04/01/20	1240		X			X		1	N	X	X														X						
	FS-22 (5')	04/01/20	1250		X			X		1	N	X	X														X						
	FS-23 (5')	04/01/20	1300		X			X		1	N	X	X														X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>[Signature]</i>	4-3-20	13:30	<i>[Signature]</i>	4-3-20	13:30
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>[Signature]</i>	4-3-20	16:30	<i>[Signature]</i>	4-3-20	16:30
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			<i>[Signature]</i>	4-4-20	800

LAB USE ONLY

Sample Temperature

REMARKS:

- ☐ Standard
- ☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

No TB 65 total

1.7-2.5 ^{um} A3

RAD SCREEN: <0.5 mR/hr

Analysis Request of Chain of Custody Record

**Tetra Tech, Inc.**901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

4205826

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	COP Baish A Battery	Contact Info:	Email: christian.llull@tetrattech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02120
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Joe Tyler
Comments: COPTETRA Acctnum			

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B / 6 /
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Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>Bill D. Smith</i>	4-3-20	13:30	<i>[Signature]</i>	4-3-20	13:30
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>[Signature]</i>	4-3-20	16:30	<i>SWA</i>	4-3-20	16:30
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			<i>[Signature]</i>	4-4-20	800

LAB USE ONLY

Sample Temperature

REMARKS:

- ☐ Standard
- ☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

No TB 65 total

1.7-2.5 ^{uM} A3 RAD SCREEN: <0.5 mR/hr

Analysis Request of Chain of Custody Record

**Tetra Tech, Inc.**901 West Wall Street, Suite 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

U205826

Client Name: Conoco Phillips	Site Manager: Christian Llull
Project Name: COP Baish A Battery	Contact Info: Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state) Lea County, New Mexico	Project #: 212C-MD-02120
Invoice to: Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701	
Receiving Laboratory: Pace Analytical	Sampler Signature: Joe Tyler
Comments: COPTETRA Acctnum	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTX 8021B	BTX 8260B / 624	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD			
		YEAR: 2020		WATER	SOIL	HCL	HNO ₃	ICE	NONE																										
		DATE	TIME																																
	FS-34 (2')	04/01/20	1450		X			X		1	N	X	X													X									
	FS-35 (2')	04/01/20	1500		X			X		1	N	X	X													X									
	FS-36 (2')	04/01/20	1510		X			X		1	N	X	X													X									
	FS-37 (2')	04/01/20	1520		X			X		1	N	X	X													X									
	FS-38 (0.5')	04/01/20	1530		X			X		1	N	X	X													X									
	FS-39 (0.5')	04/01/20	1540		X			X		1	N	X	X													X									
	ISW-1	04/01/20	1550		X			X		1	N	X	X													X									
	ISW-2	04/01/20	1600		X			X		1	N	X	X													X									
	ISW-3	04/01/20	1610		X			X		1	N	X	X													X									
	ISW-4	04/01/20	1620		X			X		1	N	X	X													X									
Received by: [Signature]												Date: [Date] Time: [Time]												REMARKS:											

Relinquished by: *Bill D. Smith* Date: 4-3-20 Time: 13:30

Relinquished by: *[Signature]* Date: 4-3-20 Time: 16:30

Relinquished by: *[Signature]* Date: 4-4-20 Time: 8:00

Received by: *[Signature]* Date: 4-3-20 Time: 13:30

Received by: *SWA* Date: 4-3-20 Time: 16:30

Received by: *[Signature]* Date: 4-4-20 Time: 8:00

LAB USE ONLY

Sample Temperature

REMARKS:

- ☐ Standard
- ☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

No TB

65 total

1.7-2.2.5 um
A3

RAD SCREEN: <0.5 mR/hr

Analysis Request of Chain of Custody Record

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

C1205826

**Tetra Tech, Inc.**

Client Name: Conoco Phillips

Site Manager: Christian Llull

Project Name: COP Baish A Battery

Contact Info: Email: christian.llull@tetrattech.com
Phone: (512) 338-1667Project Location: Lea County, New Mexico
(county, state)

Project #: 212C-MD-02120

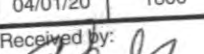
Invoice to: Accounts Payable
901 West Wall Street, Suite 100 Midland, Texas 79701

Sampler Signature: Joe Tyler

Receiving Laboratory: Pace Analytical

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

Comments: COPTETRA Acctnum		SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B / 624	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD	
LAB # (LAB USE ONLY)	DATE		TIME	WATER	SOIL	HCL	HNO3	ICE	NONE																									
										YEAR: 2020																								
		ISW-5	04/01/20	1630		X			X		1	N	X	X														X						
		ISW-6	04/01/20	1640		X			X		1	N	X	X														X						
		ISW-7	04/01/20	1650		X			X		1	N	X	X														X						
		ISW-8	04/01/20	1700		X			X		1	N	X	X														X						
		ISW-9	04/01/20	1710		X			X		1	N	X	X														X						
		ISW-10	04/01/20	1720		X			X		1	N	X	X														X						
		ISW-11	04/01/20	1730		X			X		1	N	X	X														X						
		ISW-12	04/01/20	1740		X			X		1	N	X	X														X						
		ISW-13	04/01/20	1750		X			X		1	N	X	X														X						
		ISW-14	04/01/20	1800		X			X		1	N	X	X														X						
Date: Time:		Received by: 		Date: Time:		LAB USE ONLY		REMARKS: ☐ Standard																										

Relinquished by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

REMARKS:

- ☐ Standard
- ☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

Sample Temperature

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

No TB 65 Total

1.7-.2=1.5 uM
A3 RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation Cooler Receipt Form

Client: <u>COPTEPA</u>	<u>61205826</u>	
Cooler Received/Opened On: <u>4 / 4 / 20</u>	Temperature: <u>1.5</u>	
Received By: <u>Michael Pappas</u>		
Signature: <u>[Signature]</u>		
Receipt Check List	NP	Yes
COC Seal Present / Intact?	✓	
COC Signed / Accurate?		✓
Bottles arrive intact?		✓
Correct bottles used?		✓
Sufficient volume sent?		✓
If Applicable		
VOA Zero headspace?		
Preservation Correct / Checked?		



ANALYTICAL REPORT

April 08, 2020

ConocoPhillips - Tetra Tech

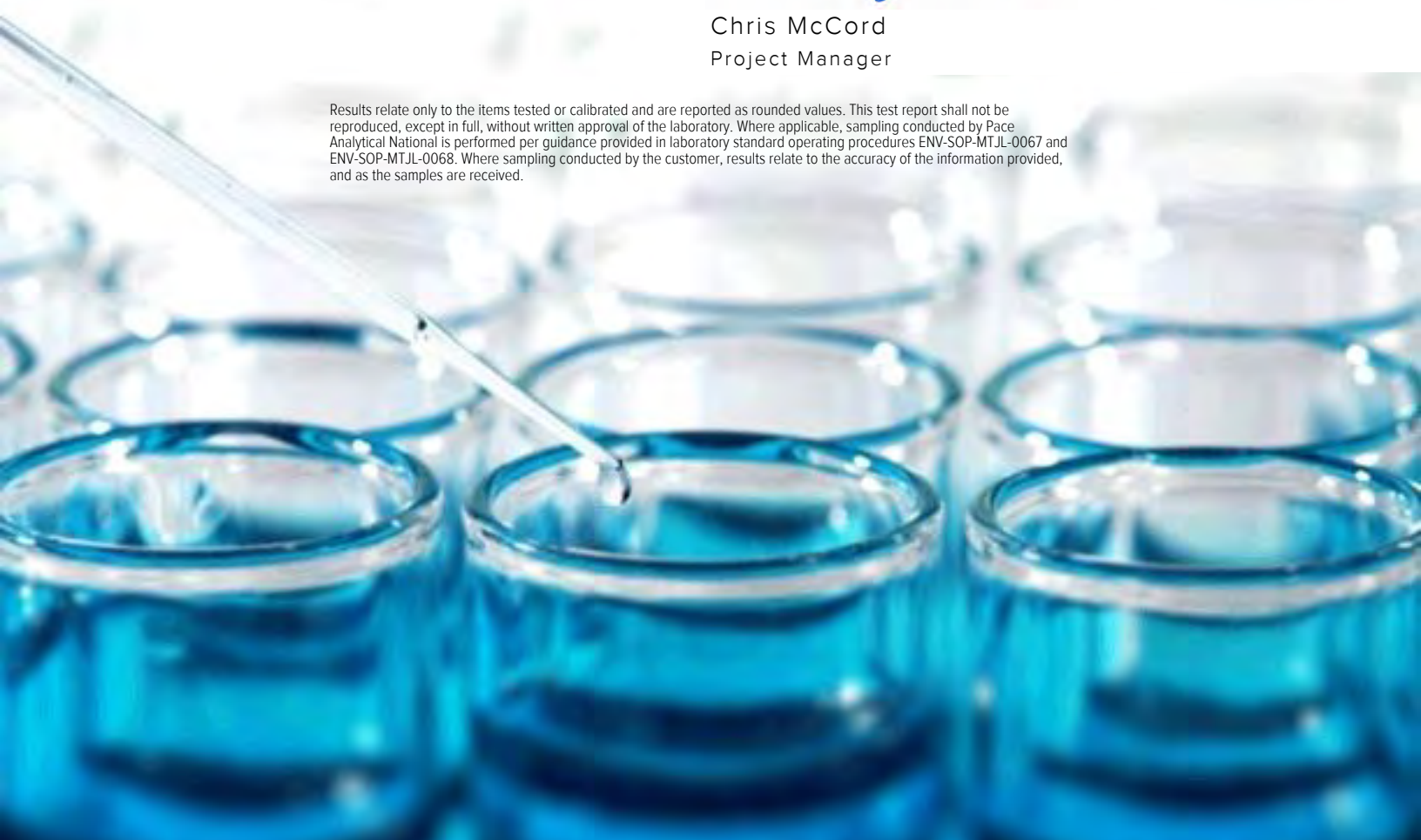
Sample Delivery Group: L1206282
Samples Received: 04/07/2020
Project Number: 212C-MD-02120
Description: COP Baish A Battery

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

Entire Report Reviewed By:

Chris McCord
Project Manager

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



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SSW-16 (1') L1206282-01 Solid

Collected by
Joe Taylor

Collected date/time
04/03/20 09:00

Received date/time
04/07/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456915	1	04/07/20 19:43	04/07/20 19:57	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456828	1	04/07/20 15:27	04/07/20 18:29	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1457418	1	04/07/20 15:19	04/08/20 15:53	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1457007	1	04/07/20 15:19	04/07/20 17:57	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1457049	1	04/07/20 23:43	04/08/20 10:44	KME	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn

SSW-17 (1') L1206282-02 Solid

Collected by
Joe Taylor

Collected date/time
04/03/20 09:40

Received date/time
04/07/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456996	1	04/07/20 19:24	04/07/20 19:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456828	1	04/07/20 15:27	04/07/20 18:39	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1457418	1.01	04/07/20 15:19	04/08/20 16:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1457007	1	04/07/20 15:19	04/07/20 18:17	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1457049	1	04/07/20 23:43	04/08/20 09:53	KME	Mt. Juliet, TN

⁵ Sr⁶ Qc⁷ Gl⁸ Al

SSW-18 (1') L1206282-03 Solid

Collected by
Joe Taylor

Collected date/time
04/03/20 10:20

Received date/time
04/07/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456996	1	04/07/20 19:24	04/07/20 19:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456828	1	04/07/20 15:27	04/07/20 18:48	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1457418	1	04/07/20 15:19	04/08/20 16:35	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1457007	1	04/07/20 15:19	04/07/20 18:36	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1457049	1	04/07/20 23:43	04/08/20 09:27	KME	Mt. Juliet, TN

⁹ Sc

SSW-21 (1') L1206282-04 Solid

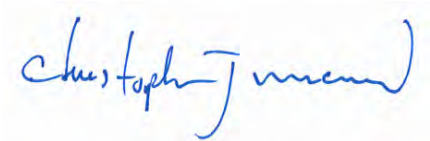
Collected by
Joe Taylor

Collected date/time
04/03/20 11:00

Received date/time
04/07/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456996	1	04/07/20 19:24	04/07/20 19:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456828	1	04/07/20 15:27	04/07/20 18:58	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1457418	1	04/07/20 15:19	04/08/20 16:56	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1457007	1	04/07/20 15:19	04/07/20 18:55	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1457049	20	04/07/20 23:43	04/08/20 10:18	KME	Mt. Juliet, TN

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



Chris McCord
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Collected date/time: 04/03/20 09:00

L1206282

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.7		1	04/07/2020 19:57	WG1456915

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	U		9.32	20.3	1	04/07/2020 18:29	WG1456828

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0247	B J	0.0220	0.101	1	04/08/2020 15:53	WG1457418
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		04/08/2020 15:53	WG1457418

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000405	0.00101	1	04/07/2020 17:57	WG1457007
Toluene	U		0.00127	0.00506	1	04/07/2020 17:57	WG1457007
Ethylbenzene	U		0.000537	0.00253	1	04/07/2020 17:57	WG1457007
Total Xylenes	U		0.00484	0.00658	1	04/07/2020 17:57	WG1457007
(S) Toluene-d8	112			75.0-131		04/07/2020 17:57	WG1457007
(S) 4-Bromofluorobenzene	92.4			67.0-138		04/07/2020 17:57	WG1457007
(S) 1,2-Dichloroethane-d4	122			70.0-130		04/07/2020 17:57	WG1457007

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.63	4.05	1	04/08/2020 10:44	WG1457049
C28-C40 Oil Range	0.734	J	0.278	4.05	1	04/08/2020 10:44	WG1457049
(S) o-Terphenyl	71.7			18.0-148		04/08/2020 10:44	WG1457049

Collected date/time: 04/03/20 09:40

L1206282

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.9		1	04/07/2020 19:40	WG1456996

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.40	20.4	1	04/07/2020 18:39	WG1456828

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1.01	04/08/2020 16:14	WG1457418
(S) a,a,a-Trifluorotoluene(FID)	95.7			77.0-120		04/08/2020 16:14	WG1457418

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000409	0.00102	1	04/07/2020 18:17	WG1457007
Toluene	U		0.00128	0.00511	1	04/07/2020 18:17	WG1457007
Ethylbenzene	U		0.000541	0.00255	1	04/07/2020 18:17	WG1457007
Total Xylenes	U		0.00488	0.00664	1	04/07/2020 18:17	WG1457007
(S) Toluene-d8	113			75.0-131		04/07/2020 18:17	WG1457007
(S) 4-Bromofluorobenzene	92.4			67.0-138		04/07/2020 18:17	WG1457007
(S) 1,2-Dichloroethane-d4	118			70.0-130		04/07/2020 18:17	WG1457007

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.43	J	1.64	4.09	1	04/08/2020 09:53	WG1457049
C28-C40 Oil Range	7.55		0.280	4.09	1	04/08/2020 09:53	WG1457049
(S) o-Terphenyl	57.2			18.0-148		04/08/2020 09:53	WG1457049

Collected date/time: 04/03/20 10:20

L1206282

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.5		1	04/07/2020 19:40	WG1456996

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.44	20.5	1	04/07/2020 18:48	WG1456828

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0301	B J	0.0223	0.103	1	04/08/2020 16:35	WG1457418
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		04/08/2020 16:35	WG1457418

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000410	0.00103	1	04/07/2020 18:36	WG1457007
Toluene	U		0.00128	0.00513	1	04/07/2020 18:36	WG1457007
Ethylbenzene	U		0.000544	0.00256	1	04/07/2020 18:36	WG1457007
Total Xylenes	U		0.00490	0.00667	1	04/07/2020 18:36	WG1457007
(S) Toluene-d8	110			75.0-131		04/07/2020 18:36	WG1457007
(S) 4-Bromofluorobenzene	87.1			67.0-138		04/07/2020 18:36	WG1457007
(S) 1,2-Dichloroethane-d4	115			70.0-130		04/07/2020 18:36	WG1457007

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.88	J	1.65	4.10	1	04/08/2020 09:27	WG1457049
C28-C40 Oil Range	10.6		0.281	4.10	1	04/08/2020 09:27	WG1457049
(S) o-Terphenyl	47.5			18.0-148		04/08/2020 09:27	WG1457049

Collected date/time: 04/03/20 11:00

L1206282

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.1		1	04/07/2020 19:40	WG1456996

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.38	20.4	1	04/07/2020 18:58	WG1456828

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0247	B J	0.0221	0.102	1	04/08/2020 16:56	WG1457418
(S) a,a,a-Trifluorotoluene(FID)	95.8			77.0-120		04/08/2020 16:56	WG1457418

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000408	0.00102	1	04/07/2020 18:55	WG1457007
Toluene	U		0.00127	0.00510	1	04/07/2020 18:55	WG1457007
Ethylbenzene	U		0.000540	0.00255	1	04/07/2020 18:55	WG1457007
Total Xylenes	U		0.00487	0.00663	1	04/07/2020 18:55	WG1457007
(S) Toluene-d8	108			75.0-131		04/07/2020 18:55	WG1457007
(S) 4-Bromofluorobenzene	87.1			67.0-138		04/07/2020 18:55	WG1457007
(S) 1,2-Dichloroethane-d4	113			70.0-130		04/07/2020 18:55	WG1457007

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	33.4	J	32.8	81.6	20	04/08/2020 10:18	WG1457049
C28-C40 Oil Range	157		5.59	81.6	20	04/08/2020 10:18	WG1457049
(S) o-Terphenyl	80.5	J7		18.0-148		04/08/2020 10:18	WG1457049

Sample Narrative:

L1206282-04 WG1457049: Cannot run at lower dilution due to viscosity of extract

Total Solids by Method 2540 G-2011 [L1206282-01](#)

Method Blank (MB)

(MB) R3516606-1 04/07/20 19:57

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

L1206275-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1206275-03 04/07/20 19:57 • (DUP) R3516606-3 04/07/20 19:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	88.0	87.7	1	0.376		10

Laboratory Control Sample (LCS)

(LCS) R3516606-2 04/07/20 19:57

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011

[L1206282-02.03.04](#)

Method Blank (MB)

(MB) R3516600-1 04/07/20 19:40

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

L1206282-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1206282-02 04/07/20 19:40 • (DUP) R3516600-3 04/07/20 19:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	97.9	97.9	1	0.00684		10

Laboratory Control Sample (LCS)

(LCS) R3516600-2 04/07/20 19:40

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 300.0 [L1206282-01,02,03,04](#)

Method Blank (MB)

(MB) R3516539-1 04/07/20 16:22

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

L1206279-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1206279-01 04/07/20 16:45 • (DUP) R3516539-3 04/07/20 16:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP RPD Limits
Analyte	mg/kg	mg/kg		%	%
Chloride	2350	2480	5	5.43	20

Laboratory Control Sample (LCS)

(LCS) R3516539-2 04/07/20 16:32

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	193	96.6	90.0-110	

L1206279-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1206279-02 04/07/20 17:04 • (MS) R3516539-4 04/07/20 17:13 • (MSD) R3516539-5 04/07/20 17:23

	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	ND	377	457	75.4	91.4	1	80.0-120	J6		19.1	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

[L1206282-01,02,03,04](#)

Method Blank (MB)

(MB) R3516854-3 04/08/20 12:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0253	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.3			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3516854-2 04/08/20 11:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.15	93.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			113	77.0-120	

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc



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

L1206282-01,02,03,04

Method Blank (MB)

(MB) R3516620-3 04/07/20 16:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	87.9			67.0-138
(S) 1,2-Dichloroethane-d4	116			70.0-130

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

(LCS) R3516620-1 04/07/20 15:39 • (LCSD) R3516620-2 04/07/20 15:58

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.116	0.118	92.8	94.4	70.0-123			1.71	20
Ethylbenzene	0.125	0.106	0.106	84.8	84.8	74.0-126			0.000	20
Toluene	0.125	0.110	0.111	88.0	88.8	75.0-121			0.905	20
Xylenes, Total	0.375	0.300	0.314	80.0	83.7	72.0-127			4.56	20
(S) Toluene-d8				103	103	75.0-131				
(S) 4-Bromofluorobenzene				95.6	93.8	67.0-138				
(S) 1,2-Dichloroethane-d4				125	123	70.0-130				

L1206282-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1206282-04 04/07/20 18:55 • (MS) R3516620-4 04/07/20 22:27 • (MSD) R3516620-5 04/07/20 22:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.127	U	0.129	0.124	102	97.6	1	10.0-149			4.02	37
Ethylbenzene	0.127	U	0.118	0.112	92.8	88.0	1	10.0-160			5.31	38
Toluene	0.127	U	0.126	0.119	99.2	93.6	1	10.0-156			5.81	38
Xylenes, Total	0.382	U	0.331	0.326	86.7	85.3	1	10.0-160			1.55	38
(S) Toluene-d8					106	105		75.0-131				
(S) 4-Bromofluorobenzene					93.8	90.3		67.0-138				
(S) 1,2-Dichloroethane-d4					116	112		70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3516596-1 04/08/20 09:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	62.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3516596-2 04/08/20 09:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	32.9	65.8	50.0-150	
(S) o-Terphenyl			52.0	18.0-148	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Guide to Reading and Understanding Your Laboratory Report

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

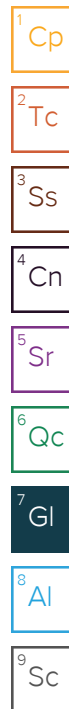
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
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	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

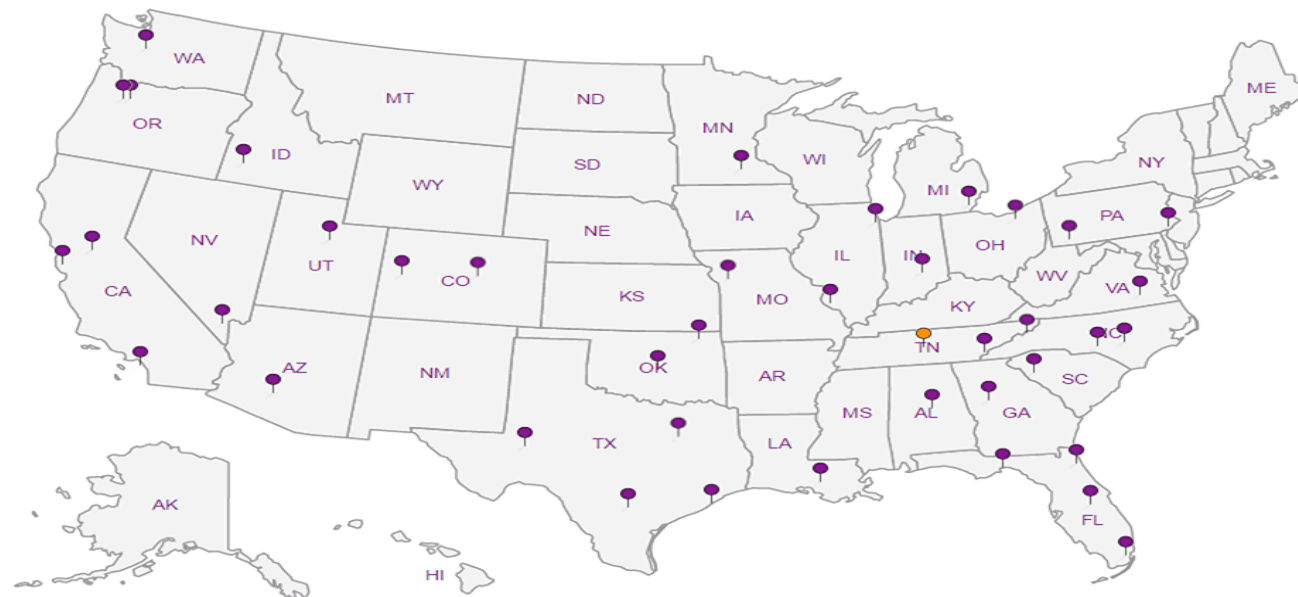
Third Party Federal Accreditations

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

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

Our Locations

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





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

U206282

Site Manager: Christian Llull

Contact Info: Email: christian.lull@tetrattech.com
Phone: (512) 338-1667

Project #: 212C-MD-02120

Receiving Laboratory: Pace Analytical

Sampler Signature: Joe Tyler

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible]

Relinquished by: Joe Lyle Date: 4-6-20 Time: 13:30

Received by: Kalish 4-6-20 Date: 4-6-20 Time: 13:30

Relinquished by:  Date: 4-6-20 Time: 16:30

Received by: SWA Date: 4-6-20 Time: 16:30

Relinquished by: _____ Date: _____ Time: _____

Received by:	Date:	Time:
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LAB USE ONLY

Sample Temperature

REMARKS:

☐ Standard☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

C180

ORIGINAL COPY ~~1~~
$$2.3 = 2 = 2.1 \text{ log}$$

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:	CORTERA	61706282	
Cooler Received/Opened On:	4/7/20	Temperature:	7.1°C
Received By:	Lucas Green		
Signature:	<i>LG</i>		
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			



ANALYTICAL REPORT

April 08, 2020

ConocoPhillips - Tetra Tech

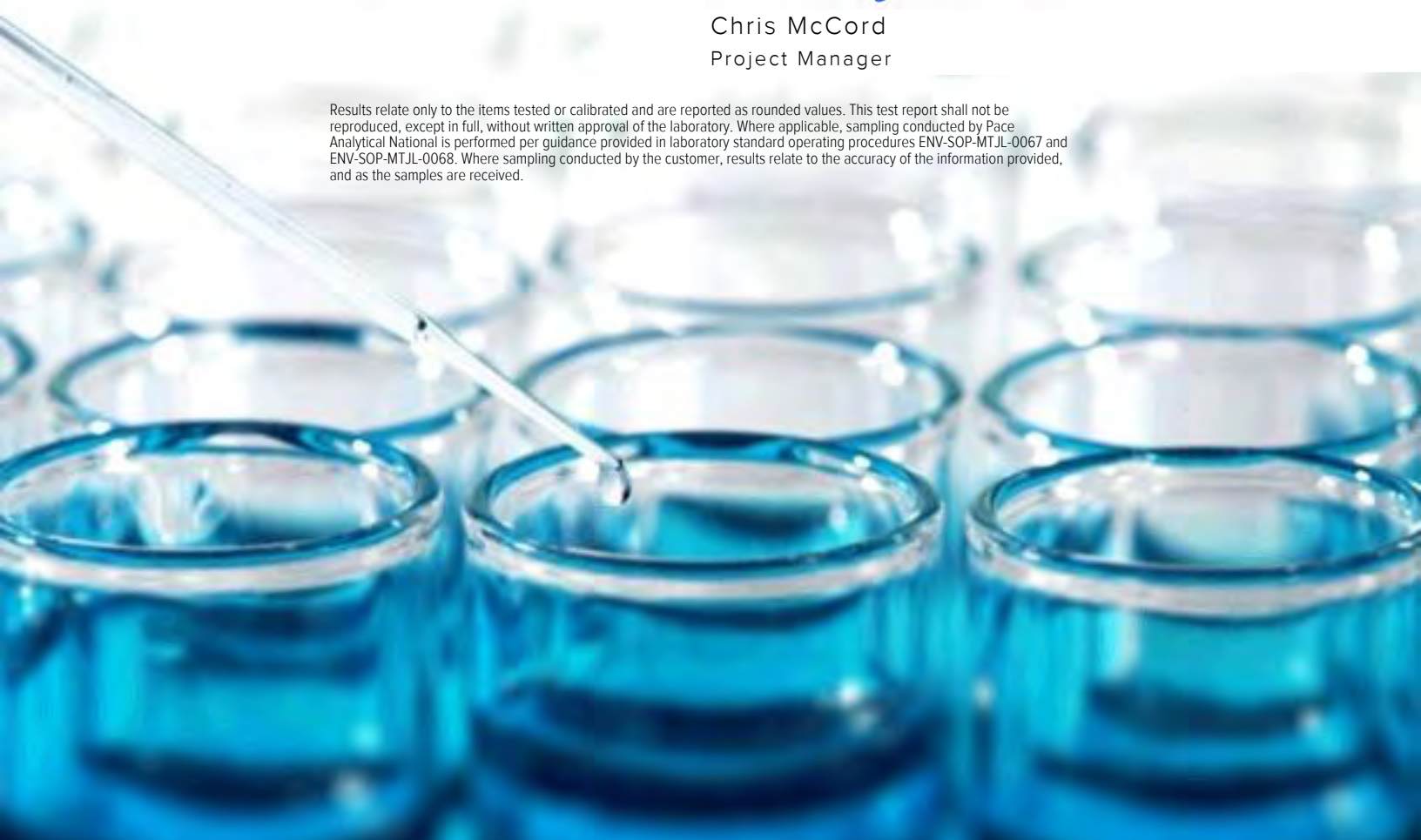
Sample Delivery Group: L1206373
Samples Received: 04/04/2020
Project Number: 212C-MD-02120
Description: COP Baish A Battery

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

Entire Report Reviewed By:

Chris McCord
Project Manager

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



Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
SSW-1 (2') L1206373-01	5	
Qc: Quality Control Summary	6	⁴ Cn
Total Solids by Method 2540 G-2011	6	⁵ Sr
Wet Chemistry by Method 300.0	7	
Volatile Organic Compounds (GC) by Method 8015D/GRO	8	⁶ Qc
Volatile Organic Compounds (GC/MS) by Method 8260B	9	
Semi-Volatile Organic Compounds (GC) by Method 8015	10	⁷ Gl
Gl: Glossary of Terms	11	
Al: Accreditations & Locations	12	⁸ Al
Sc: Sample Chain of Custody	13	⁹ Sc

SSW-1 (2') L1206373-01 Solid

Collected by
Joe Tyler

Collected date/time
04/01/20 08:10

Received date/time
04/04/20 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1456996	1	04/07/20 19:24	04/07/20 19:40	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1456970	1	04/07/20 23:00	04/08/20 03:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1457418	1	04/08/20 01:40	04/08/20 17:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1457167	1	04/08/20 01:40	04/08/20 04:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1457049	1	04/07/20 23:43	04/08/20 10:57	KME	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

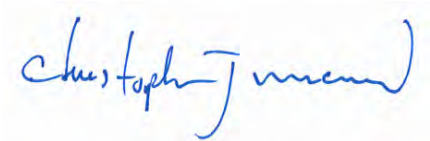
6Qc

7Gl

8Al

9Sc

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



Chris McCord
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Collected date/time: 04/01/20 08:10

L1206373

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.5		1	04/07/2020 19:40	WG1456996

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	U		9.25	20.1	1	04/08/2020 03:44	WG1456970

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	04/08/2020 17:20	WG1457418
(S) a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		04/08/2020 17:20	WG1457418

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000402	0.00100	1	04/08/2020 04:18	WG1457167
Toluene	U		0.00126	0.00502	1	04/08/2020 04:18	WG1457167
Ethylbenzene	U		0.000533	0.00251	1	04/08/2020 04:18	WG1457167
Total Xylenes	U		0.00480	0.00653	1	04/08/2020 04:18	WG1457167
(S) Toluene-d8	109			75.0-131		04/08/2020 04:18	WG1457167
(S) 4-Bromofluorobenzene	104			67.0-138		04/08/2020 04:18	WG1457167
(S) 1,2-Dichloroethane-d4	106			70.0-130		04/08/2020 04:18	WG1457167

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.62	4.02	1	04/08/2020 10:57	WG1457049
C28-C40 Oil Range	1.68	J	0.275	4.02	1	04/08/2020 10:57	WG1457049
(S) o-Terphenyl	70.8			18.0-148		04/08/2020 10:57	WG1457049

Total Solids by Method 2540 G-2011 [L1206373-01](#)

Method Blank (MB)

(MB) R3516600-1 04/07/20 19:40

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

L1206282-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1206282-02 04/07/20 19:40 • (DUP) R3516600-3 04/07/20 19:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	97.9	97.9	1	0.00684		10

Laboratory Control Sample (LCS)

(LCS) R3516600-2 04/07/20 19:40

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 300.0 L1206373-01

Method Blank (MB)

(MB) R3516543-1 04/08/20 00:10

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

L1206373-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1206373-01 04/08/20 03:44 • (DUP) R3516543-5 04/08/20 03:53

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

Laboratory Control Sample (LCS)

(LCS) R3516543-2 04/08/20 00:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	193	96.3	90.0-110	

L1206341-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1206341-05 04/08/20 02:18 • (MS) R3516543-3 04/08/20 02:28 • (MSD) R3516543-4 04/08/20 02:37

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	501	1140	1060	128	112	1	80.0-120	E J5	E	7.11	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

L1206373-01

Method Blank (MB)

(MB) R3516854-3 04/08/20 12:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0253	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.3			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3516854-2 04/08/20 11:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.15	93.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			113	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

L1206373-01

Method Blank (MB)

(MB) R3516680-3 04/08/20 02:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	110			75.0-131
(S) 4-Bromofluorobenzene	108			67.0-138
(S) 1,2-Dichloroethane-d4	105			70.0-130

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

(LCS) R3516680-1 04/08/20 01:09 • (LCSD) R3516680-2 04/08/20 01:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.0966	0.0999	77.3	79.9	70.0-123			3.36	20
Ethylbenzene	0.125	0.118	0.127	94.4	102	74.0-126			7.35	20
Toluene	0.125	0.105	0.107	84.0	85.6	75.0-121			1.89	20
Xylenes, Total	0.375	0.343	0.364	91.5	97.1	72.0-127			5.94	20
(S) Toluene-d8				109	108	75.0-131				
(S) 4-Bromofluorobenzene				104	108	67.0-138				
(S) 1,2-Dichloroethane-d4				108	108	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1206373-01](#)

Method Blank (MB)

(MB) R3516596-1 04/08/20 09:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	62.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3516596-2 04/08/20 09:15

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	32.9	65.8	50.0-150	
(S) o-Terphenyl			52.0	18.0-148	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Guide to Reading and Understanding Your Laboratory Report

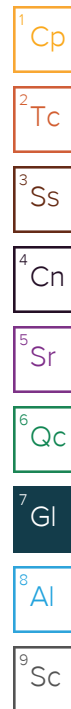
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

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

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

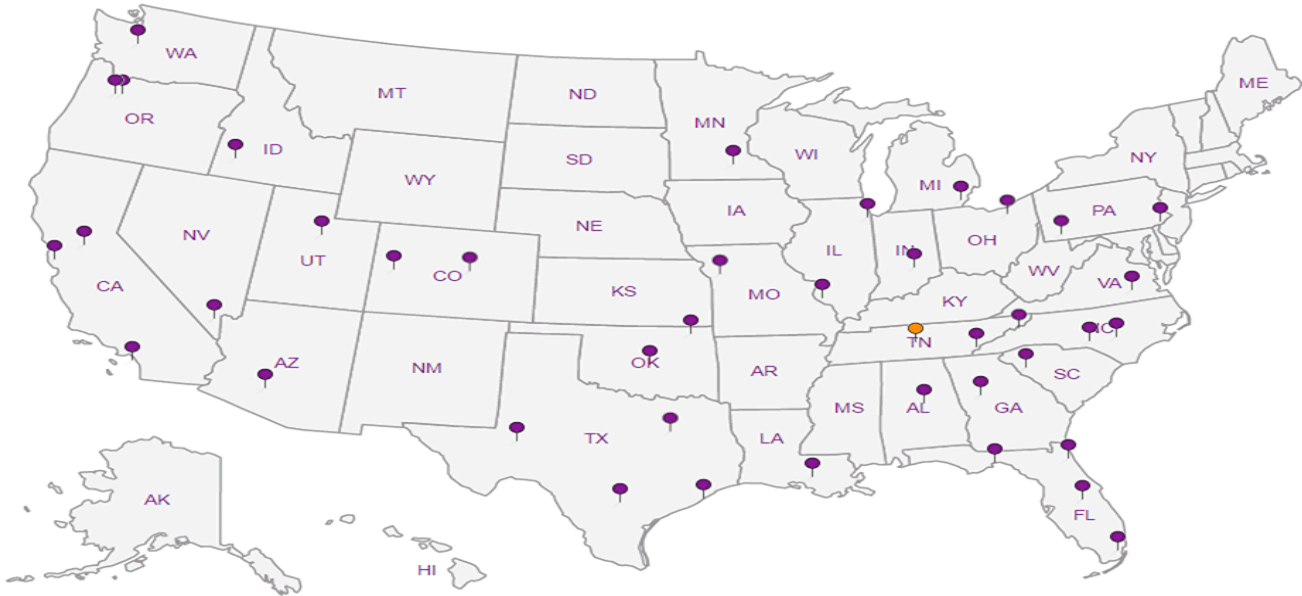
Third Party Federal Accreditations

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

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

Our Locations

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



COPTETRA

Page : 1 of 7

[illegible]

04-0037

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

RAD SCREEN: <0.5 mR/hr

Not B 65 total

$$1.7 - .2 = 1.5 \text{ um}$$

04-0037

Andy Vann

From: Chris McCord
Sent: Tuesday, April 7, 2020 3:44 PM
To: Project Service; Due SVOC; Due VOC; Due WetLab
Subject: L1205826 *COPETRA* RUSH relog from hold 04-0037
Attachments: COCL1205826.pdf

Importance: High

Please log hold sample SSW-1 (2') for V8260BTEX, GRO, DRORLA, CHLORIDE-300, TS. Log as R2 due 4/8.

Christopher McCord

Project Manager II | National
Pace Analytical - National
12065 Lebanon Road | Mt. Juliet, TN 37122
o.615.773.3281 | c.615.504.3183 | pacenational.com



From: Llull, Christian [mailto:Christian.Llull@tetratech.com]
Sent: Tuesday, April 07, 2020 3:39 PM
To: Chris McCord
Cc: Tyler, Joe
Subject: ATTENTION: Analysis Request

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Chris,

Please run the on HOLD sample SSW-1 (2') on a 24 h rush.

It is in the attached COC.

Christian Llull, P.G. | Project Manager
Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | christian.llull@tetratech.com

Tetra Tech | *Leading with Science®* | OGA
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

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Please consider the environment before printing. [Read more](#)



TETRA TECH



ANALYTICAL REPORT

April 10, 2020

ConocoPhillips - Tetra Tech

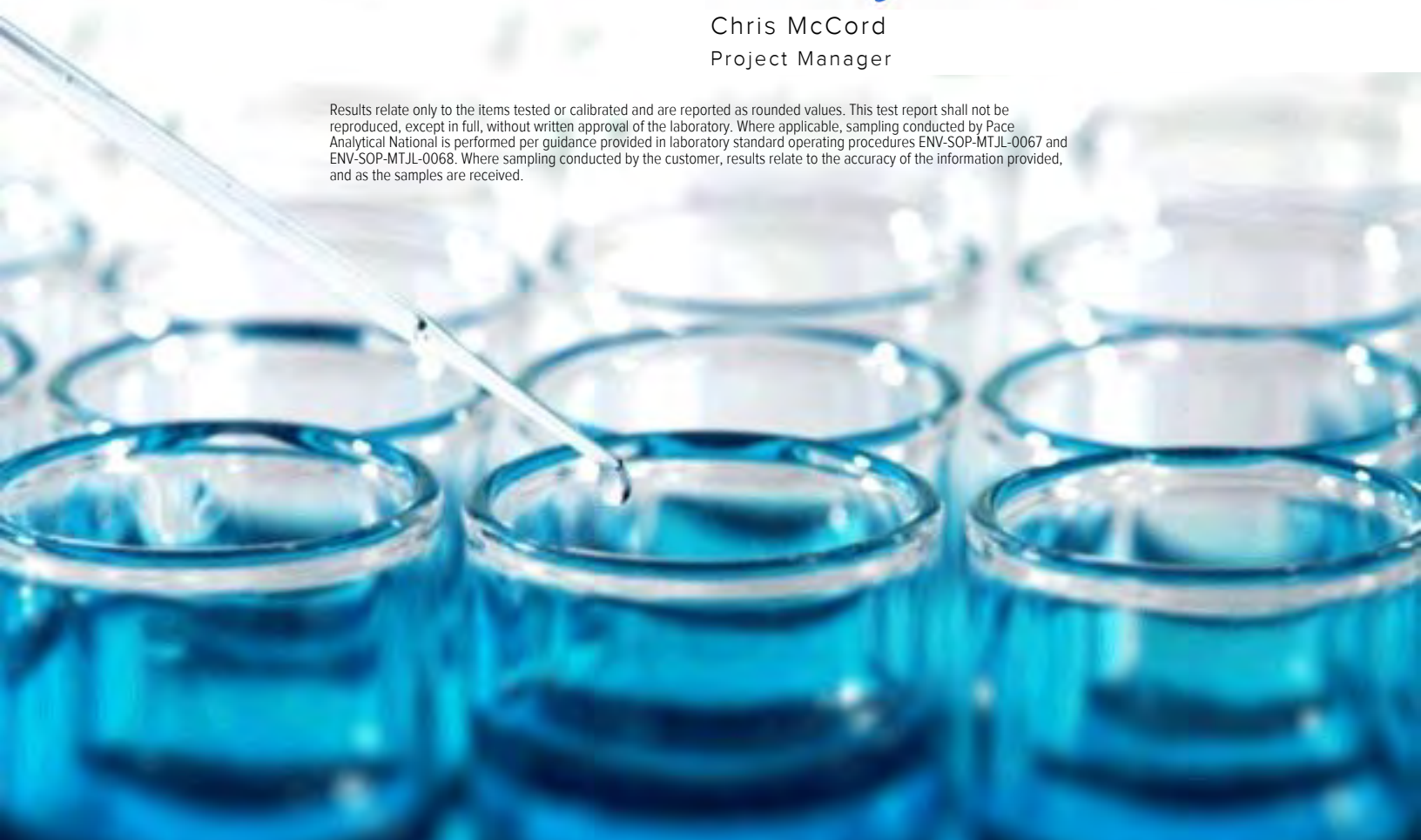
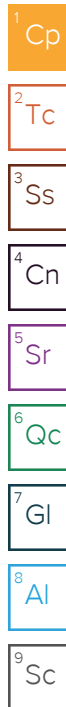
Sample Delivery Group: L1207180
Samples Received: 04/07/2020
Project Number: 212C-MD-02120
Description: COP Baish A Battery

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

Entire Report Reviewed By:

Chris McCord
Project Manager

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



Cp: Cover Page	1	¹Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	²Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³Ss
SSW-21 (2') L1207180-01	5	
Qc: Quality Control Summary	6	⁴Cn
Total Solids by Method 2540 G-2011	6	⁵Sr
Wet Chemistry by Method 300.0	7	
Volatile Organic Compounds (GC) by Method 8015D/GRO	8	⁶Qc
Volatile Organic Compounds (GC/MS) by Method 8260B	9	
Semi-Volatile Organic Compounds (GC) by Method 8015	10	⁷Gl
Gl: Glossary of Terms	11	⁸Al
Al: Accreditations & Locations	12	
Sc: Sample Chain of Custody	13	⁹Sc

SSW-21 (2') L1207180-01 Solid

Collected by
Joe Taylor

Collected date/time
04/03/20 11:20

Received date/time
04/07/20 11:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1458304	1	04/09/20 17:47	04/09/20 18:20	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1458073	1	04/10/20 01:00	04/10/20 05:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1458276	1	04/09/20 23:32	04/10/20 13:19	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1458649	1	04/09/20 23:32	04/10/20 09:13	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1458196	5	04/09/20 23:11	04/10/20 10:30	KME	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

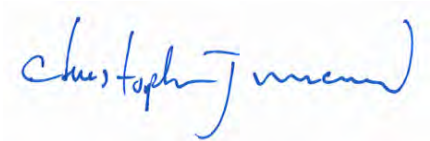
6Qc

7Gl

8Al

9Sc

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



Chris McCord
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Collected date/time: 04/03/20 11:20

L1207180

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.5		1	04/09/2020 18:20	WG1458304

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.34	20.3	1	04/10/2020 05:44	WG1458073

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0266	J	0.0220	0.102	1	04/10/2020 13:19	WG1458276
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		04/10/2020 13:19	WG1458276

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000406	0.00102	1	04/10/2020 09:13	WG1458649
Toluene	U		0.00127	0.00508	1	04/10/2020 09:13	WG1458649
Ethylbenzene	U		0.000538	0.00254	1	04/10/2020 09:13	WG1458649
Total Xylenes	U		0.00485	0.00660	1	04/10/2020 09:13	WG1458649
(S) Toluene-d8	109			75.0-131		04/10/2020 09:13	WG1458649
(S) 4-Bromofluorobenzene	108			67.0-138		04/10/2020 09:13	WG1458649
(S) 1,2-Dichloroethane-d4	106			70.0-130		04/10/2020 09:13	WG1458649

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	25.5		8.17	20.3	5	04/10/2020 10:30	WG1458196
C28-C40 Oil Range	97.5		1.39	20.3	5	04/10/2020 10:30	WG1458196
(S) o-Terphenyl	85.8			18.0-148		04/10/2020 10:30	WG1458196

Total Solids by Method 2540 G-2011 [L1207180-01](#)

Method Blank (MB)

(MB) R3517339-1 04/09/20 18:20

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00300			

L1206746-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1206746-04 04/09/20 18:20 • (DUP) R3517339-3 04/09/20 18:20

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	89.8	89.8	1	0.0203		10

Laboratory Control Sample (LCS)

(LCS) R3517339-2 04/09/20 18:20

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 300.0 [L1207180-01](#)

Method Blank (MB)

(MB) R3517370-1 04/10/20 03:39

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

L1206800-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1206800-11 04/10/20 06:38 • (DUP) R3517370-3 04/10/20 06:56

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

Laboratory Control Sample (LCS)

(LCS) R3517370-2 04/10/20 03:57

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	211	106	90.0-110	

L1206800-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1206800-12 04/10/20 07:14 • (MS) R3517370-4 04/10/20 07:32 • (MSD) R3517370-5 04/10/20 07:50

	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	99.9	100	1	80.0-120			0.230	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

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Gl

8

Al

9

Sc



Method Blank (MB)

(MB) R3517476-3 04/10/20 11:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120

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

(LCS) R3517476-1 04/10/20 10:01 • (LCSD) R3517476-2 04/10/20 10:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.94	5.70	108	104	72.0-127			4.12	20
(S) a,a,a-Trifluorotoluene(FID)				117	116	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

L1207180-01

Method Blank (MB)

(MB) R3517488-2 04/10/20 07:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	109			75.0-131
(S) 4-Bromofluorobenzene	105			67.0-138
(S) 1,2-Dichloroethane-d4	102			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3517488-1 04/10/20 06:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.0996	79.7	70.0-123	
Ethylbenzene	0.125	0.127	102	74.0-126	
Toluene	0.125	0.112	89.6	75.0-121	
Xylenes, Total	0.375	0.363	96.8	72.0-127	
(S) Toluene-d8			110	75.0-131	
(S) 4-Bromofluorobenzene			104	67.0-138	
(S) 1,2-Dichloroethane-d4			104	70.0-130	

Semi-Volatile Organic Compounds (GC) by Method 8015

L1207180-01

Method Blank (MB)

(MB) R3517359-1 04/10/20 02:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	72.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3517359-2 04/10/20 03:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	39.5	79.0	50.0-150	
(S) o-Terphenyl			54.8	18.0-148	

L1206035-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1206035-01 04/10/20 06:41 • (MS) R3517359-3 04/10/20 06:53 • (MSD) R3517359-4 04/10/20 07:06

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	ND	343	404	484	606	10	50.0-150	J5	J5	16.3	20
(S) o-Terphenyl					47.3	38.9		18.0-148				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Guide to Reading and Understanding Your Laboratory Report

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

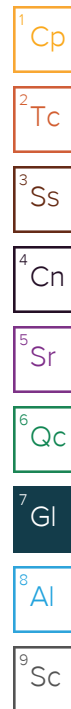
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
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Qualifier Description

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State Accreditations

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

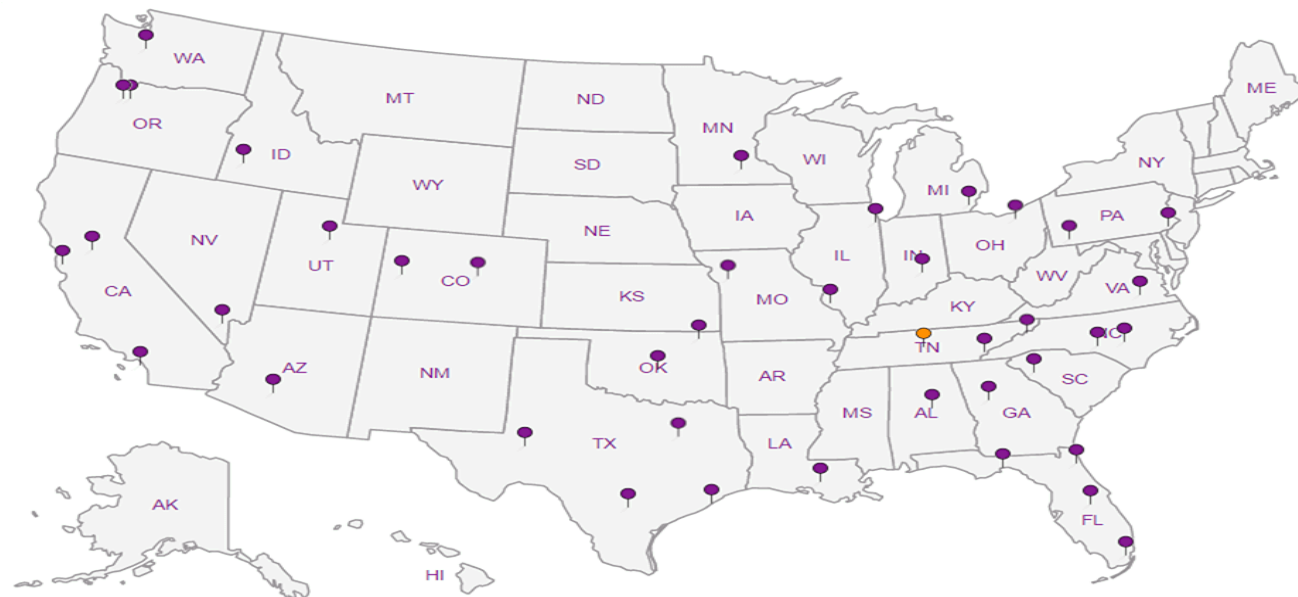
Third Party Federal Accreditations

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

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

Our Locations

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



Analysis Request of Chain of Custody Record

[illegible]

C180

ORIGINAL COPY *AL*
$$2.3 = 2 = 2.1 \cdot 10^0$$

Katie IngramL1201180
~~4425~~

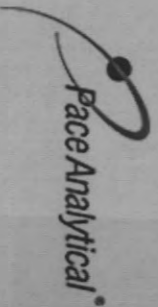
From: Chris McCord <CMcCord@pacenational.com>
Sent: Thursday, April 9, 2020 9:23 AM
To: Project Service <ProjServ@pacenational.com>; Due SVOC <duesvoc@pacenational.com>; Due VOC <duevoc@pacenational.com>; Due Wetlab <duewetlab@pacenational.com>
Subject: L1206282 *COPETETRA* RUSH from hold 04-0055
Importance: High

Please log hold sample SSW-21(2') for CHLORIDE-300, V8260BTEX, GRO, DRORLA, TS. Log as R2 due 4/10.

Thanks.

Christopher McCord

Project Manager II | National
Pace Analytical - National
12065 Lebanon Road | Mt. Juliet, TN 37122
o.615.773.3281 | c.615.504.3183 | [pacenational.com](mailto:cpacenational.com)



From: Llull, Christian [mailto:Christian.Llull@tetrattech.com]
Sent: Wednesday, April 08, 2020 8:28 PM
To: Chris McCord
Cc: Tyler, Joe
Subject: ATTENTION: Analysis Request

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Chris,

Please run the on HOLD sample SSW-21(2') on a 24 h rush.

COC is L1206282.

Thanks!

L1207180

Christian Llull, P.G. | Project Manager
Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | christian.llull@tetratech.com

Tetra Tech | Leading with Science® OGA
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

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TETRA TECH

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ANALYTICAL REPORT

April 15, 2020

ConocoPhillips - Tetra Tech

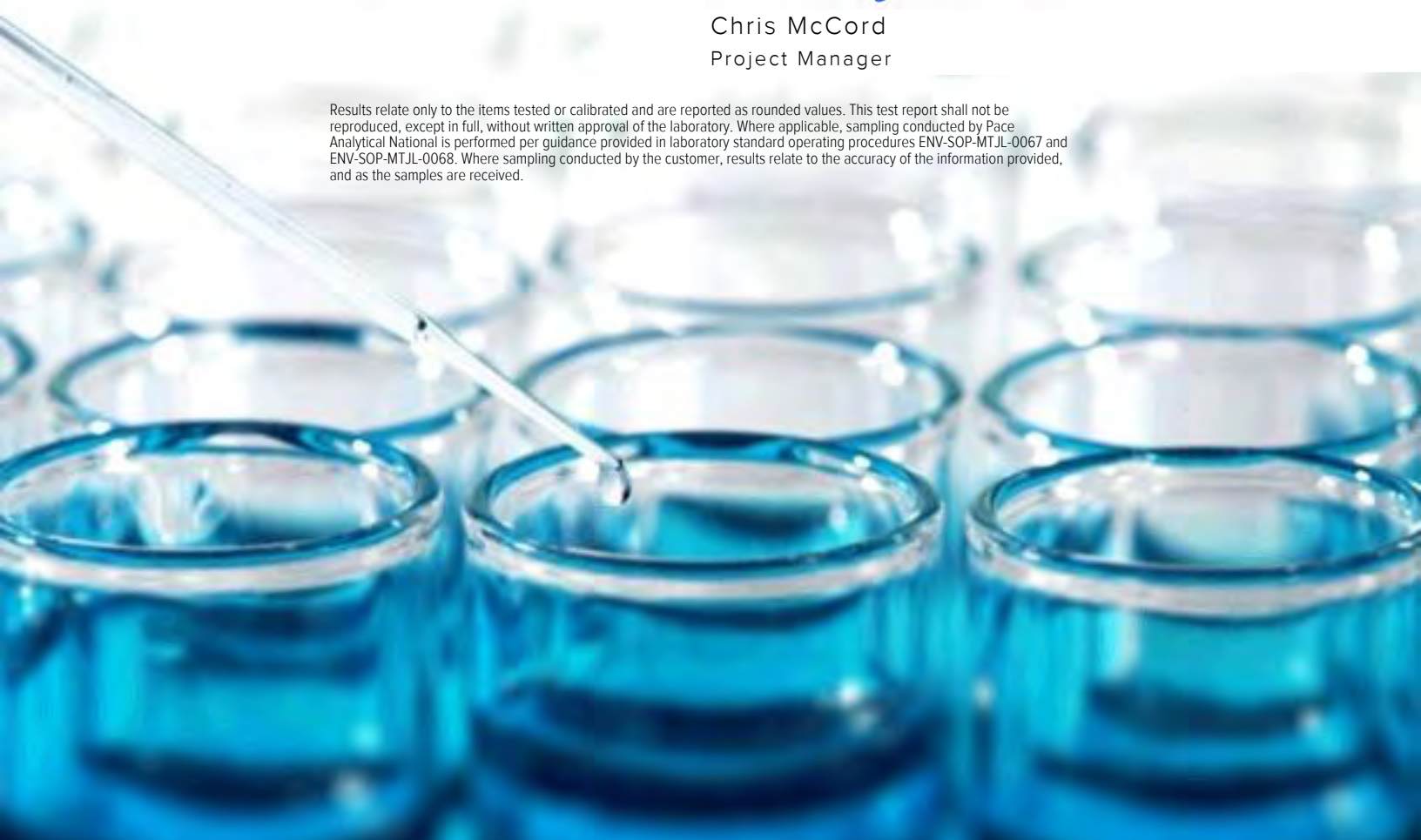
Sample Delivery Group: L1207960
Samples Received: 04/11/2020
Project Number: 212C-MD-02120
Description: COP Baish A Battery

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

Entire Report Reviewed By:

Chris McCord
Project Manager

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



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FS-38 (1') L1207960-01 Solid

Collected by Joe Tyler
Collected date/time 04/08/20 10:00
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459694	1	04/13/20 15:35	04/13/20 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 06:58	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459513	1	04/11/20 14:19	04/12/20 18:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459407	1	04/11/20 14:19	04/11/20 21:52	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459367	1	04/11/20 18:29	04/12/20 06:42	JDG	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn

FS-38 (1.5') L1207960-02 Solid

Collected by Joe Tyler
Collected date/time 04/08/20 10:10
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459694	1	04/13/20 15:35	04/13/20 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 08:10	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459513	1	04/11/20 14:19	04/12/20 18:38	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459407	1	04/11/20 14:19	04/11/20 22:12	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459367	1	04/11/20 18:29	04/12/20 06:55	JDG	Mt. Juliet, TN

⁵ Sr⁶ Qc⁷ Gl⁸ Al

FS-39 (1') L1207960-03 Solid

Collected by Joe Tyler
Collected date/time 04/08/20 10:30
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459694	1	04/13/20 15:35	04/13/20 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 08:28	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459513	1	04/11/20 14:19	04/12/20 19:00	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459407	1	04/11/20 14:19	04/11/20 22:32	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459367	1	04/11/20 18:29	04/12/20 07:08	JDG	Mt. Juliet, TN

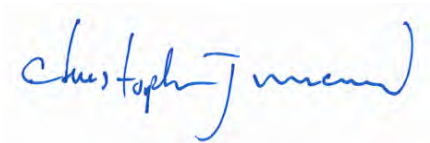
⁹ Sc

FS-39 (1.5') L1207960-04 Solid

Collected by Joe Tyler
Collected date/time 04/08/20 10:40
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459751	1	04/14/20 10:38	04/14/20 10:47	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 08:46	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459513	1	04/11/20 14:19	04/12/20 19:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459407	1	04/11/20 14:19	04/11/20 22:53	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459367	1	04/11/20 18:29	04/12/20 07:20	JDG	Mt. Juliet, TN

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



Chris McCord
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Collected date/time: 04/08/20 10:00

L1207960

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.4		1	04/13/2020 15:44	WG1459694

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.44	20.5	1	04/13/2020 06:58	WG1459469

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.101	B J	0.0223	0.103	1	04/12/2020 18:16	WG1459513
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		04/12/2020 18:16	WG1459513

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000479	0.00103	1	04/11/2020 21:52	WG1459407
Toluene	U		0.00133	0.00513	1	04/11/2020 21:52	WG1459407
Ethylbenzene	U		0.000757	0.00257	1	04/11/2020 21:52	WG1459407
Total Xylenes	U		0.000903	0.00667	1	04/11/2020 21:52	WG1459407
(S) Toluene-d8	104			75.0-131		04/11/2020 21:52	WG1459407
(S) 4-Bromofluorobenzene	96.8			67.0-138		04/11/2020 21:52	WG1459407
(S) 1,2-Dichloroethane-d4	105			70.0-130		04/11/2020 21:52	WG1459407

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.00	J	1.65	4.11	1	04/12/2020 06:42	WG1459367
C28-C40 Oil Range	6.31	B	0.281	4.11	1	04/12/2020 06:42	WG1459367
(S) o-Terphenyl	66.3			18.0-148		04/12/2020 06:42	WG1459367

Collected date/time: 04/08/20 10:10

L1207960

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.4		1	04/13/2020 15:44	WG1459694

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.54	20.7	1	04/13/2020 08:10	WG1459469

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0754	B J	0.0225	0.104	1	04/12/2020 18:38	WG1459513
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		04/12/2020 18:38	WG1459513

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000484	0.00104	1	04/11/2020 22:12	WG1459407
Toluene	U		0.00135	0.00518	1	04/11/2020 22:12	WG1459407
Ethylbenzene	U		0.000764	0.00259	1	04/11/2020 22:12	WG1459407
Total Xylenes	U		0.000913	0.00674	1	04/11/2020 22:12	WG1459407
(S) Toluene-d8	103			75.0-131		04/11/2020 22:12	WG1459407
(S) 4-Bromofluorobenzene	95.5			67.0-138		04/11/2020 22:12	WG1459407
(S) 1,2-Dichloroethane-d4	103			70.0-130		04/11/2020 22:12	WG1459407

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.01	J	1.67	4.15	1	04/12/2020 06:55	WG1459367
C28-C40 Oil Range	3.33	B J	0.284	4.15	1	04/12/2020 06:55	WG1459367
(S) o-Terphenyl	74.9			18.0-148		04/12/2020 06:55	WG1459367

Collected date/time: 04/08/20 10:30

L1207960

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.9		1	04/13/2020 15:44	WG1459694

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	U		9.39	20.4	1	04/13/2020 08:28	WG1459469

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0793	B J	0.0222	0.102	1	04/12/2020 19:00	WG1459513
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	106			77.0-120		04/12/2020 19:00	WG1459513

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000477	0.00102	1	04/11/2020 22:32	WG1459407
Toluene	U		0.00133	0.00511	1	04/11/2020 22:32	WG1459407
Ethylbenzene	U		0.000753	0.00255	1	04/11/2020 22:32	WG1459407
Total Xylenes	U		0.000899	0.00664	1	04/11/2020 22:32	WG1459407
(S) <i>Toluene-d8</i>	107			75.0-131		04/11/2020 22:32	WG1459407
(S) <i>4-Bromofluorobenzene</i>	100			67.0-138		04/11/2020 22:32	WG1459407
(S) <i>1,2-Dichloroethane-d4</i>	108			70.0-130		04/11/2020 22:32	WG1459407

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.27	J	1.64	4.08	1	04/12/2020 07:08	WG1459367
C28-C40 Oil Range	5.03	B	0.280	4.08	1	04/12/2020 07:08	WG1459367
(S) <i>o</i> -Terphenyl	75.2			18.0-148		04/12/2020 07:08	WG1459367

Collected date/time: 04/08/20 10:40

L1207960

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.6		1	04/14/2020 10:47	WG1459751

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.43	20.5	1	04/13/2020 08:46	WG1459469

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0653	B J	0.0222	0.102	1	04/12/2020 19:22	WG1459513
(S) a,a,a-Trifluorotoluene(FID)	106			77.0-120		04/12/2020 19:22	WG1459513

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000479	0.00102	1	04/11/2020 22:53	WG1459407
Toluene	U		0.00133	0.00512	1	04/11/2020 22:53	WG1459407
Ethylbenzene	U		0.000755	0.00256	1	04/11/2020 22:53	WG1459407
Total Xylenes	U		0.000902	0.00666	1	04/11/2020 22:53	WG1459407
(S) Toluene-d8	103			75.0-131		04/11/2020 22:53	WG1459407
(S) 4-Bromofluorobenzene	102			67.0-138		04/11/2020 22:53	WG1459407
(S) 1,2-Dichloroethane-d4	104			70.0-130		04/11/2020 22:53	WG1459407

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.65	4.10	1	04/12/2020 07:20	WG1459367
C28-C40 Oil Range	1.41	B J	0.281	4.10	1	04/12/2020 07:20	WG1459367
(S) o-Terphenyl	62.2			18.0-148		04/12/2020 07:20	WG1459367

Total Solids by Method 2540 G-2011 [L1207960-01,02,03](#)

Method Blank (MB)

(MB) R3518329-1 04/13/20 15:44

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

L1207963-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1207963-11 04/13/20 15:44 • (DUP) R3518329-3 04/13/20 15:44

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	95.2	95.1	1	0.0847		10

Laboratory Control Sample (LCS)

(LCS) R3518329-2 04/13/20 15:44

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3518719-1 04/14/20 10:47

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

L1207960-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1207960-04 04/14/20 10:47 • (DUP) R3518719-3 04/14/20 10:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	97.6	97.5	1	0.0961		10

Laboratory Control Sample (LCS)

(LCS) R3518719-2 04/14/20 10:47

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 300.0

[L1207960-01,02,03,04](#)

Method Blank (MB)

(MB) R3518199-1 04/13/20 04:17

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

L1207960-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1207960-01 04/13/20 06:58 • (DUP) R3518199-3 04/13/20 07:16

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

L1207963-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1207963-10 04/13/20 12:56 • (DUP) R3518199-6 04/13/20 13:14

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

Laboratory Control Sample (LCS)

(LCS) R3518199-2 04/13/20 04:35

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

L1207963-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1207963-05 04/13/20 10:15 • (MS) R3518199-4 04/13/20 10:33 • (MSD) R3518199-5 04/13/20 10:51

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	501	14.6	527	522	102	101	1	80.0-120			0.882	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

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

L1207960-01,02,03,04

Method Blank (MB)

(MB) R3518203-2 04/12/20 12:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0459	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3518203-1 04/12/20 10:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.51	82.0	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120	

L1207960-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1207960-01 04/12/20 18:16 • (MS) R3518203-3 04/12/20 20:06 • (MSD) R3518203-4 04/12/20 20:28

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.60	0.101	5.91	5.18	104	90.9	1	10.0-151			13.1	28
(S) a,a,a-Trifluorotoluene(FID)					109	109		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3518509-2 04/11/20 21:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	106			75.0-131
(S) 4-Bromofluorobenzene	99.1			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3518509-1 04/11/20 20:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.128	102	70.0-123	
Ethylbenzene	0.125	0.108	86.4	74.0-126	
Toluene	0.125	0.132	106	75.0-121	
Xylenes, Total	0.375	0.369	98.4	72.0-127	
(S) Toluene-d8			102	75.0-131	
(S) 4-Bromofluorobenzene			103	67.0-138	
(S) 1,2-Dichloroethane-d4			110	70.0-130	

L1207960-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1207960-04 04/11/20 22:53 • (MS) R3518509-3 04/12/20 00:34 • (MSD) R3518509-4 04/12/20 00:54

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.128	U	0.166	0.163	130	127	1	10.0-149			1.87	37
Ethylbenzene	0.128	U	0.148	0.133	115	104	1	10.0-160			10.2	38
Toluene	0.128	U	0.168	0.161	131	126	1	10.0-156			4.36	38
Xylenes, Total	0.384	U	0.477	0.445	124	116	1	10.0-160			6.90	38
(S) Toluene-d8					104	102		75.0-131				
(S) 4-Bromofluorobenzene					96.0	98.1		67.0-138				
(S) 1,2-Dichloroethane-d4					108	105		70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

L1207960-01,02,03,04

Method Blank (MB)

(MB) R3517766-1 04/12/20 05:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	2.09	J	0.274	4.00
(S) o-Terphenyl	75.5			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3517766-2 04/12/20 05:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	38.6	77.2	50.0-150	
(S) o-Terphenyl			57.5	18.0-148	

L1207432-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1207432-01 04/12/20 07:58 • (MS) R3517766-3 04/12/20 08:11 • (MSD) R3517766-4 04/12/20 08:23

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	955	808	965	0.000	20.0	5	50.0-150	V	V	17.7	20
(S) o-Terphenyl					82.9	79.4		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

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

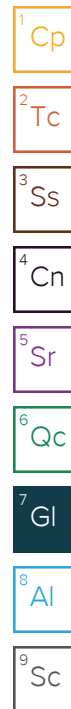
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
V	The sample concentration is too high to evaluate accurate spike recoveries.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

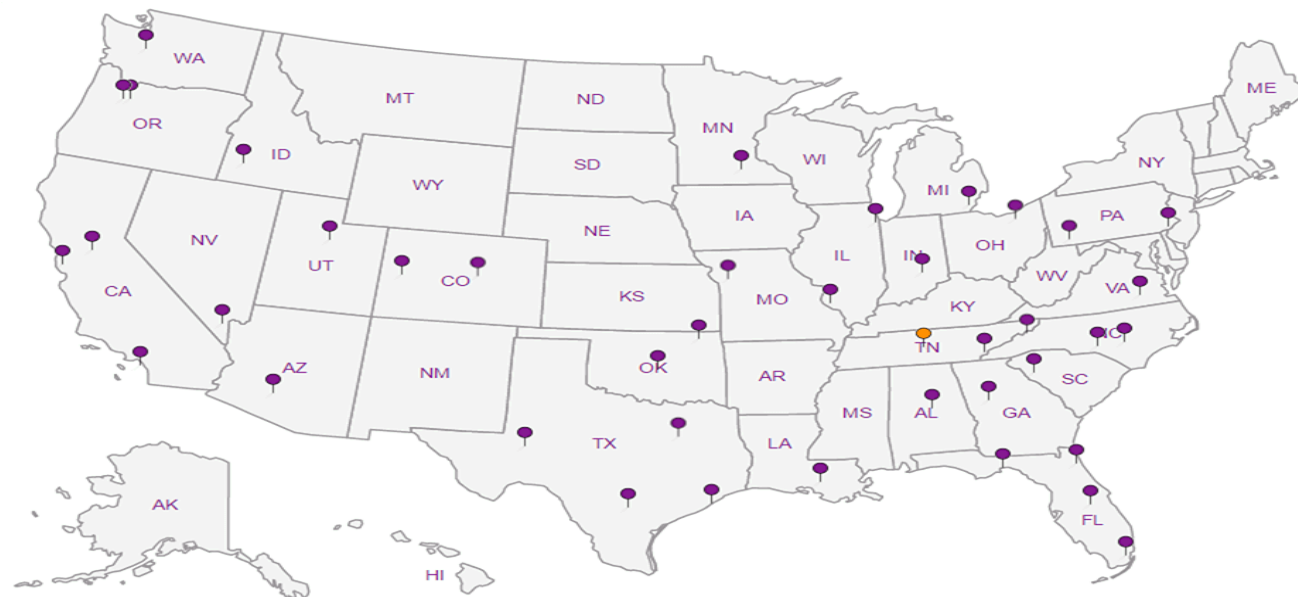
Third Party Federal Accreditations

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

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

Our Locations

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



1207960



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

H166

Site Manager: Christian Llull

Contact Info: Email: christian.llull@tetrattech.com
Phone: (512) 338-1667

Project #: 212C-MD-02120

Receiving Laboratory: Pace Analytical

Sampler Signature: Joe Tyler

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)[illegible]

Relinquished by: J. Taylor Date: 4-10-20 Time: 1300

Received by: Steve Wilson Date: 4/10/20 Time: 3:00

Relinquished by:  Date: 6-10-20 Time: 16:00

Received by:  Date: 4-20-20 Time: 1620

Relinquished by: _____ Date: _____ Time: _____

Received by: Wan Lin M Date: 4/11/2020 Time: 0200

LAB USE
ONLY

Sample Temperature

REMARKS:

☐ Standard

☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.

☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

RAD SCREEN: <0.5 mR/hr

4510 1659 6354

$$.4 \pm 0 = .4 \mu\text{m}$$

Pace Analytical National Center for Testing & Innovation

Cooler Receipt Form

Client: <i>COPTETRA</i>	1207960	
Cooler Received/Opened On: <i>4 1 11 20</i>	Temperature: <i>.4</i>	
Received By: Hailey Melson		
Signature: <i>Hailey Melson</i>		
Receipt Check List	NP	Yes No
COC Seal Present / Intact?	/	
COC Signed / Accurate?		/
Bottles arrive intact?		/
Correct bottles used?		/
Sufficient volume sent?		/
If Applicable		
VOA Zero headspace?		
Preservation Correct / Checked?		



ANALYTICAL REPORT

April 14, 2020

ConocoPhillips - Tetra Tech

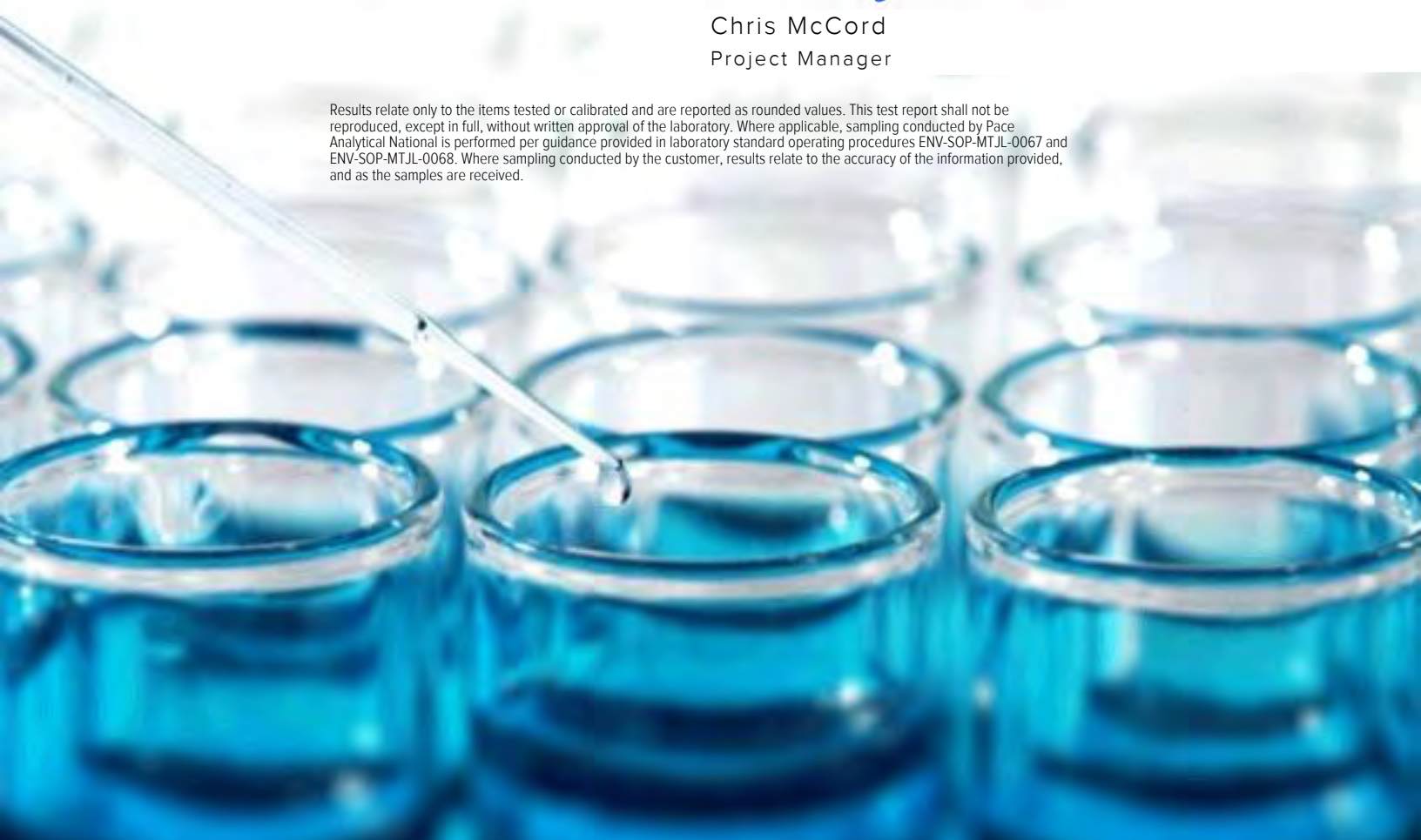
Sample Delivery Group: L1207963
Samples Received: 04/11/2020
Project Number: 212C-MD-02120
Description: COP Baish A Battery

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

Entire Report Reviewed By:

Chris McCord
Project Manager

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



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NSW-6 (1') L1207963-01 Solid

Collected by Joe Tyler
Collected date/time 04/09/20 08:10
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459693	1	04/13/20 15:26	04/13/20 15:34	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 09:04	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459384	1	04/11/20 14:05	04/12/20 16:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459392	1	04/11/20 14:05	04/11/20 23:50	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459366	1	04/11/20 18:27	04/12/20 03:08	JDG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

NSW-8 (2') L1207963-02 Solid

Collected by Joe Tyler
Collected date/time 04/09/20 08:20
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459693	1	04/13/20 15:26	04/13/20 15:34	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 09:21	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459384	1.01	04/11/20 14:05	04/12/20 16:44	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459392	1	04/11/20 14:05	04/12/20 00:09	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459366	1	04/11/20 18:27	04/12/20 02:30	JDG	Mt. Juliet, TN

5 Sr

6 Qc

7 Gl

8 Al

NSW-9 (3') L1207963-03 Solid

Collected by Joe Tyler
Collected date/time 04/09/20 08:40
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459693	1	04/13/20 15:26	04/13/20 15:34	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 09:39	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459384	1	04/11/20 14:05	04/12/20 17:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459392	1	04/11/20 14:05	04/12/20 00:28	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459366	10	04/11/20 18:27	04/12/20 04:10	JDG	Mt. Juliet, TN

9 Sc

NSW-10 (10') L1207963-04 Solid

Collected by Joe Tyler
Collected date/time 04/09/20 09:00
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459693	1	04/13/20 15:26	04/13/20 15:34	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 09:57	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459384	1	04/11/20 14:05	04/12/20 17:32	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459392	1	04/11/20 14:05	04/12/20 00:47	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459366	1	04/11/20 18:27	04/12/20 03:33	JDG	Mt. Juliet, TN

NSW-11 (10') L1207963-05 Solid

Collected by Joe Tyler
Collected date/time 04/09/20 09:20
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459694	1	04/13/20 15:35	04/13/20 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 10:15	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459384	1	04/11/20 14:05	04/12/20 17:56	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459392	1	04/11/20 14:05	04/12/20 01:07	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459366	1	04/11/20 18:27	04/12/20 03:45	JDG	Mt. Juliet, TN

NSW-14 (1') L1207963-06 Solid

Collected by Joe Tyler
Collected date/time 04/09/20 09:40
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459694	1	04/13/20 15:35	04/13/20 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 11:45	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459384	1	04/11/20 14:05	04/12/20 18:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459392	1	04/11/20 14:05	04/12/20 01:26	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459366	1	04/11/20 18:27	04/13/20 13:20	JDG	Mt. Juliet, TN

¹ Cp² Tc³ Ss⁴ Cn

FS-9 (5') L1207963-07 Solid

Collected by Joe Tyler
Collected date/time 04/09/20 10:10
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459694	1	04/13/20 15:35	04/13/20 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 12:03	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459384	1	04/11/20 14:05	04/12/20 18:44	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459392	1	04/11/20 14:05	04/12/20 01:45	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459366	1	04/11/20 18:27	04/12/20 02:42	JDG	Mt. Juliet, TN

⁵ Sr⁶ Qc⁷ Gl⁸ Al

FS-32 (4') L1207963-08 Solid

Collected by Joe Tyler
Collected date/time 04/09/20 10:30
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459694	1	04/13/20 15:35	04/13/20 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 12:21	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459384	1.01	04/11/20 14:05	04/12/20 19:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459392	1	04/11/20 14:05	04/12/20 02:04	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459366	20	04/11/20 18:27	04/12/20 04:23	JDG	Mt. Juliet, TN

⁹ Sc

FS-35 (4') L1207963-09 Solid

Collected by Joe Tyler
Collected date/time 04/09/20 10:50
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459694	1	04/13/20 15:35	04/13/20 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 12:39	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459384	1	04/11/20 14:05	04/12/20 19:32	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459392	1	04/11/20 14:05	04/12/20 02:23	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459366	1	04/11/20 18:27	04/12/20 02:55	JDG	Mt. Juliet, TN

FS-36 (4') L1207963-10 Solid

Collected by Joe Tyler
Collected date/time 04/09/20 11:10
Received date/time 04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459694	1	04/13/20 15:35	04/13/20 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1459469	1	04/13/20 00:45	04/13/20 12:56	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459384	1	04/11/20 14:05	04/12/20 19:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459392	1	04/11/20 14:05	04/12/20 02:42	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459366	1	04/11/20 18:27	04/12/20 03:20	JDG	Mt. Juliet, TN

SAMPLE SUMMARY

FS-37 (4') L1207963-11 Solid

Collected by
Joe Tyler

Collected date/time
04/09/20 11:30

Received date/time
04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1459694	1	04/13/20 15:35	04/13/20 15:44	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1458002	1	04/12/20 22:00	04/13/20 09:19	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1459513	1	04/11/20 14:05	04/12/20 19:44	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1459392	1	04/11/20 14:05	04/12/20 03:01	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1459367	1	04/11/20 18:29	04/12/20 07:33	JDG	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

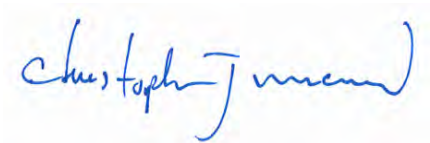
6Qc

7Gl

8Al

9Sc

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



Chris McCord
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Collected date/time: 04/09/20 08:10

L1207963

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.7		1	04/13/2020 15:34	WG1459693

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	202		9.23	20.1	1	04/13/2020 09:04	WG1459469

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	04/12/2020 16:20	WG1459384
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		04/12/2020 16:20	WG1459384

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000401	0.00100	1	04/11/2020 23:50	WG1459392
Toluene	U		0.00125	0.00502	1	04/11/2020 23:50	WG1459392
Ethylbenzene	U		0.000532	0.00251	1	04/11/2020 23:50	WG1459392
Total Xylenes	U		0.00480	0.00652	1	04/11/2020 23:50	WG1459392
(S) Toluene-d8	106			75.0-131		04/11/2020 23:50	WG1459392
(S) 4-Bromofluorobenzene	98.3			67.0-138		04/11/2020 23:50	WG1459392
(S) 1,2-Dichloroethane-d4	92.2			70.0-130		04/11/2020 23:50	WG1459392

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.18		1.62	4.01	1	04/12/2020 03:08	WG1459366
C28-C40 Oil Range	2.88	J	0.275	4.01	1	04/12/2020 03:08	WG1459366
(S) o-Terphenyl	68.4			18.0-148		04/12/2020 03:08	WG1459366

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.7		1	04/13/2020 15:34	WG1459693

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	137		9.42	20.5	1	04/13/2020 09:21	WG1459469

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1.01	04/12/2020 16:44	WG1459384
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		04/12/2020 16:44	WG1459384

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000410	0.00102	1	04/12/2020 00:09	WG1459392
Toluene	U		0.00128	0.00512	1	04/12/2020 00:09	WG1459392
Ethylbenzene	U		0.000543	0.00256	1	04/12/2020 00:09	WG1459392
Total Xylenes	U		0.00489	0.00666	1	04/12/2020 00:09	WG1459392
(S) Toluene-d8	105			75.0-131		04/12/2020 00:09	WG1459392
(S) 4-Bromofluorobenzene	96.4			67.0-138		04/12/2020 00:09	WG1459392
(S) 1,2-Dichloroethane-d4	90.9			70.0-130		04/12/2020 00:09	WG1459392

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.82	J	1.65	4.10	1	04/12/2020 02:30	WG1459366
C28-C40 Oil Range	1.91	J	0.281	4.10	1	04/12/2020 02:30	WG1459366
(S) o-Terphenyl	65.5			18.0-148		04/12/2020 02:30	WG1459366

Collected date/time: 04/09/20 08:40

L1207963

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.5		1	04/13/2020 15:34	WG1459693

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	23.5		10.3	22.3	1	04/13/2020 09:39	WG1459469

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0242	0.112	1	04/12/2020 17:08	WG1459384
(S) a,a,a-Trifluorotoluene(FID)	97.4			77.0-120		04/12/2020 17:08	WG1459384

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000447	0.00112	1	04/12/2020 00:28	WG1459392
Toluene	U		0.00140	0.00559	1	04/12/2020 00:28	WG1459392
Ethylbenzene	U		0.000592	0.00279	1	04/12/2020 00:28	WG1459392
Total Xylenes	U		0.00534	0.00726	1	04/12/2020 00:28	WG1459392
(S) Toluene-d8	107			75.0-131		04/12/2020 00:28	WG1459392
(S) 4-Bromofluorobenzene	97.6			67.0-138		04/12/2020 00:28	WG1459392
(S) 1,2-Dichloroethane-d4	94.5			70.0-130		04/12/2020 00:28	WG1459392

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	45.6		18.0	44.7	10	04/12/2020 04:10	WG1459366
C28-C40 Oil Range	132		3.06	44.7	10	04/12/2020 04:10	WG1459366
(S) o-Terphenyl	62.6			18.0-148		04/12/2020 04:10	WG1459366

Collected date/time: 04/09/20 09:00

L1207963

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	89.5		1	04/13/2020 15:34	WG1459693

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	U		10.3	22.3	1	04/13/2020 09:57	WG1459469

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0242	0.112	1	04/12/2020 17:32	WG1459384
(S) a,a,a-Trifluorotoluene(FID)	96.5			77.0-120		04/12/2020 17:32	WG1459384

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000447	0.00112	1	04/12/2020 00:47	WG1459392
Toluene	U		0.00140	0.00559	1	04/12/2020 00:47	WG1459392
Ethylbenzene	U		0.000592	0.00279	1	04/12/2020 00:47	WG1459392
Total Xylenes	U		0.00534	0.00726	1	04/12/2020 00:47	WG1459392
(S) Toluene-d8	105			75.0-131		04/12/2020 00:47	WG1459392
(S) 4-Bromofluorobenzene	98.4			67.0-138		04/12/2020 00:47	WG1459392
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		04/12/2020 00:47	WG1459392

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.20	J	1.80	4.47	1	04/12/2020 03:33	WG1459366
C28-C40 Oil Range	2.93	J	0.306	4.47	1	04/12/2020 03:33	WG1459366
(S) o-Terphenyl	57.2			18.0-148		04/12/2020 03:33	WG1459366

Collected date/time: 04/09/20 09:20

L1207963

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.9		1	04/13/2020 15:44	WG1459694

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	14.6	J	9.21	20.0	1	04/13/2020 10:15	WG1459469

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	04/12/2020 17:56	WG1459384
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		04/12/2020 17:56	WG1459384

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000401	0.00100	1	04/12/2020 01:07	WG1459392
Toluene	U		0.00125	0.00501	1	04/12/2020 01:07	WG1459392
Ethylbenzene	U		0.000531	0.00250	1	04/12/2020 01:07	WG1459392
Total Xylenes	U		0.00479	0.00651	1	04/12/2020 01:07	WG1459392
(S) Toluene-d8	106			75.0-131		04/12/2020 01:07	WG1459392
(S) 4-Bromofluorobenzene	96.6			67.0-138		04/12/2020 01:07	WG1459392
(S) 1,2-Dichloroethane-d4	91.6			70.0-130		04/12/2020 01:07	WG1459392

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.01	1	04/12/2020 03:45	WG1459366
C28-C40 Oil Range	2.27	J	0.274	4.01	1	04/12/2020 03:45	WG1459366
(S) o-Terphenyl	78.3			18.0-148		04/12/2020 03:45	WG1459366

Collected date/time: 04/09/20 09:40

L1207963

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.5		1	04/13/2020 15:44	WG1459694

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		10.8	23.4	1	04/13/2020 11:45	WG1459469

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0254	0.117	1	04/12/2020 18:20	WG1459384
(S) a,a,a-Trifluorotoluene(FID)	92.5			77.0-120		04/12/2020 18:20	WG1459384

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000468	0.00117	1	04/12/2020 01:26	WG1459392
Toluene	U		0.00146	0.00585	1	04/12/2020 01:26	WG1459392
Ethylbenzene	U		0.000620	0.00292	1	04/12/2020 01:26	WG1459392
Total Xylenes	U		0.00559	0.00760	1	04/12/2020 01:26	WG1459392
(S) Toluene-d8	104			75.0-131		04/12/2020 01:26	WG1459392
(S) 4-Bromofluorobenzene	101			67.0-138		04/12/2020 01:26	WG1459392
(S) 1,2-Dichloroethane-d4	94.6			70.0-130		04/12/2020 01:26	WG1459392

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.56		1.88	4.68	1	04/13/2020 13:20	WG1459366
C28-C40 Oil Range	26.2		0.320	4.68	1	04/13/2020 13:20	WG1459366
(S) o-Terphenyl	57.9			18.0-148		04/13/2020 13:20	WG1459366

Collected date/time: 04/09/20 10:10

L1207963

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	04/13/2020 15:44	WG1459694

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	47.5		9.50	20.6	1	04/13/2020 12:03	WG1459469

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0398	J	0.0224	0.103	1	04/12/2020 18:44	WG1459384
(S) a,a,a-Trifluorotoluene(FID)	96.1			77.0-120		04/12/2020 18:44	WG1459384

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000413	0.00103	1	04/12/2020 01:45	WG1459392
Toluene	U		0.00129	0.00516	1	04/12/2020 01:45	WG1459392
Ethylbenzene	U		0.000547	0.00258	1	04/12/2020 01:45	WG1459392
Total Xylenes	U		0.00494	0.00671	1	04/12/2020 01:45	WG1459392
(S) Toluene-d8	105			75.0-131		04/12/2020 01:45	WG1459392
(S) 4-Bromofluorobenzene	98.6			67.0-138		04/12/2020 01:45	WG1459392
(S) 1,2-Dichloroethane-d4	92.0			70.0-130		04/12/2020 01:45	WG1459392

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.82	J	1.66	4.13	1	04/12/2020 02:42	WG1459366
C28-C40 Oil Range	0.728	J	0.283	4.13	1	04/12/2020 02:42	WG1459366
(S) o-Terphenyl	68.3			18.0-148		04/12/2020 02:42	WG1459366

Collected date/time: 04/09/20 10:30

L1207963

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.8		1	04/13/2020 15:44	WG1459694

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.32	20.3	1	04/13/2020 12:21	WG1459469

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.200		0.0222	0.102	1.01	04/12/2020 19:08	WG1459384
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		04/12/2020 19:08	WG1459384

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000405	0.00101	1	04/12/2020 02:04	WG1459392
Toluene	U		0.00127	0.00506	1	04/12/2020 02:04	WG1459392
Ethylbenzene	0.00459		0.000537	0.00253	1	04/12/2020 02:04	WG1459392
Total Xylenes	0.0579		0.00484	0.00658	1	04/12/2020 02:04	WG1459392
(S) Toluene-d8	105			75.0-131		04/12/2020 02:04	WG1459392
(S) 4-Bromofluorobenzene	101			67.0-138		04/12/2020 02:04	WG1459392
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		04/12/2020 02:04	WG1459392

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	108		32.6	81.0	20	04/12/2020 04:23	WG1459366
C28-C40 Oil Range	325		5.55	81.0	20	04/12/2020 04:23	WG1459366
(S) o-Terphenyl	144	J7		18.0-148		04/12/2020 04:23	WG1459366

Collected date/time: 04/09/20 10:50

L1207963

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.3		1	04/13/2020 15:44	WG1459694

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	U		11.0	24.0	1	04/13/2020 12:39	WG1459469

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0261	0.120	1	04/12/2020 19:32	WG1459384
(S) a,a,a-Trifluorotoluene(FID)	97.4			77.0-120		04/12/2020 19:32	WG1459384

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000480	0.00120	1	04/12/2020 02:23	WG1459392
Toluene	U		0.00150	0.00600	1	04/12/2020 02:23	WG1459392
Ethylbenzene	U		0.000636	0.00300	1	04/12/2020 02:23	WG1459392
Total Xylenes	U		0.00574	0.00780	1	04/12/2020 02:23	WG1459392
(S) Toluene-d8	106			75.0-131		04/12/2020 02:23	WG1459392
(S) 4-Bromofluorobenzene	98.3			67.0-138		04/12/2020 02:23	WG1459392
(S) 1,2-Dichloroethane-d4	96.1			70.0-130		04/12/2020 02:23	WG1459392

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.93	4.80	1	04/12/2020 02:55	WG1459366
C28-C40 Oil Range	U		0.329	4.80	1	04/12/2020 02:55	WG1459366
(S) o-Terphenyl	35.1			18.0-148		04/12/2020 02:55	WG1459366

Collected date/time: 04/09/20 11:10

L1207963

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.6		1	04/13/2020 15:44	WG1459694

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	U		10.9	23.6	1	04/13/2020 12:56	WG1459469

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0256	0.118	1	04/12/2020 19:57	WG1459384
(S) a,a,a-Trifluorotoluene(FID)	97.5			77.0-120		04/12/2020 19:57	WG1459384

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000473	0.00118	1	04/12/2020 02:42	WG1459392
Toluene	U		0.00148	0.00591	1	04/12/2020 02:42	WG1459392
Ethylbenzene	U		0.000626	0.00295	1	04/12/2020 02:42	WG1459392
Total Xylenes	U		0.00565	0.00768	1	04/12/2020 02:42	WG1459392
(S) Toluene-d8	104			75.0-131		04/12/2020 02:42	WG1459392
(S) 4-Bromofluorobenzene	99.5			67.0-138		04/12/2020 02:42	WG1459392
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		04/12/2020 02:42	WG1459392

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.90	4.73	1	04/12/2020 03:20	WG1459366
C28-C40 Oil Range	7.03		0.324	4.73	1	04/12/2020 03:20	WG1459366
(S) o-Terphenyl	51.4			18.0-148		04/12/2020 03:20	WG1459366

Collected date/time: 04/09/20 11:30

L1207963

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.2		1	04/13/2020 15:44	WG1459694

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.67	21.0	1	04/13/2020 09:19	WG1458002

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0670	B J	0.0228	0.105	1	04/12/2020 19:44	WG1459513
(S) a,a,a-Trifluorotoluene(FID)	107			77.0-120		04/12/2020 19:44	WG1459513

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000420	0.00105	1	04/12/2020 03:01	WG1459392
Toluene	U		0.00131	0.00525	1	04/12/2020 03:01	WG1459392
Ethylbenzene	U		0.000557	0.00263	1	04/12/2020 03:01	WG1459392
Total Xylenes	U		0.00502	0.00683	1	04/12/2020 03:01	WG1459392
(S) Toluene-d8	106			75.0-131		04/12/2020 03:01	WG1459392
(S) 4-Bromofluorobenzene	100			67.0-138		04/12/2020 03:01	WG1459392
(S) 1,2-Dichloroethane-d4	97.1			70.0-130		04/12/2020 03:01	WG1459392

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.69	4.20	1	04/12/2020 07:33	WG1459367
C28-C40 Oil Range	U		0.288	4.20	1	04/12/2020 07:33	WG1459367
(S) o-Terphenyl	65.4			18.0-148		04/12/2020 07:33	WG1459367

Method Blank (MB)

(MB) R3518327-1 04/13/20 15:34

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

L1207963-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1207963-02 04/13/20 15:34 • (DUP) R3518327-3 04/13/20 15:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	97.7	97.6	1	0.103		10

Laboratory Control Sample (LCS)

(LCS) R3518327-2 04/13/20 15:34

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

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Total Solids by Method 2540 G-2011 [L1207963-05,06,07,08,09,10,11](#)

Method Blank (MB)

(MB) R3518329-1 04/13/20 15:44				
	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1207963-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1207963-11 04/13/20 15:44 • (DUP) R3518329-3 04/13/20 15:44						
	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	95.2	95.1	1	0.0847		10

Laboratory Control Sample (LCS)

(LCS) R3518329-2 04/13/20 15:44					
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3518178-1 04/13/20 00:06

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

L1206919-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1206919-01 04/13/20 05:56 • (DUP) R3518178-3 04/13/20 06:15

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

L1207275-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1207275-01 04/13/20 08:23 • (DUP) R3518178-6 04/13/20 08:42

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	64.3	65.4	1	1.73		20

Laboratory Control Sample (LCS)

(LCS) R3518178-2 04/13/20 00:25

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

L1207069-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1207069-01 04/13/20 06:51 • (MS) R3518178-4 04/13/20 07:47 • (MSD) R3518178-5 04/13/20 08:05

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	500	108	599	595	98.0	97.4	1	80.0-120			0.535	20

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Wet Chemistry by Method 300.0

[L1207963-01,02,03,04,05,06,07,08,09,10](#)

Method Blank (MB)

(MB) R3518199-1 04/13/20 04:17

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

L1207960-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1207960-01 04/13/20 06:58 • (DUP) R3518199-3 04/13/20 07:16

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

L1207963-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1207963-10 04/13/20 12:56 • (DUP) R3518199-6 04/13/20 13:14

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

Laboratory Control Sample (LCS)

(LCS) R3518199-2 04/13/20 04:35

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

L1207963-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1207963-05 04/13/20 10:15 • (MS) R3518199-4 04/13/20 10:33 • (MSD) R3518199-5 04/13/20 10:51

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	501	14.6	527	522	102	101	1	80.0-120			0.882	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

[L1207963-01,02,03,04,05,06,07,08,09,10](#)

Method Blank (MB)

(MB) R3518242-2 04/12/20 11:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.8			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3518242-1 04/12/20 10:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.99	109	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			108	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3518203-2 04/12/20 12:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0459	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	109			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3518203-1 04/12/20 10:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.51	82.0	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120	

L1207960-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1207960-01 04/12/20 18:16 • (MS) R3518203-3 04/12/20 20:06 • (MSD) R3518203-4 04/12/20 20:28

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.45	0.0985	5.76	5.05	104	90.9	1	10.0-151			13.1	28
(S) a,a,a-Trifluorotoluene(FID)					109	109		77.0-120				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

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

L1207963-01,02,03,04,05,06,07,08,09,10,11

Method Blank (MB)

(MB) R3518097-3 04/11/20 20:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	95.1			67.0-138
(S) 1,2-Dichloroethane-d4	87.5			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R3518097-1 04/11/20 18:45 • (LCSD) R3518097-2 04/11/20 19:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.115	0.118	92.0	94.4	70.0-123			2.58	20
Ethylbenzene	0.125	0.107	0.111	85.6	88.8	74.0-126			3.67	20
Toluene	0.125	0.124	0.127	99.2	102	75.0-121			2.39	20
Xylenes, Total	0.375	0.329	0.337	87.7	89.9	72.0-127			2.40	20
(S) Toluene-d8				101	102	75.0-131				
(S) 4-Bromofluorobenzene				97.4	97.6	67.0-138				
(S) 1,2-Dichloroethane-d4				100	98.5	70.0-130				

L1207963-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1207963-11 04/12/20 03:01 • (MS) R3518097-4 04/12/20 03:20 • (MSD) R3518097-5 04/12/20 03:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.131	U	0.157	0.159	119	121	1	10.0-149			1.33	37
Ethylbenzene	0.131	U	0.147	0.148	112	113	1	10.0-160			0.712	38
Toluene	0.131	U	0.173	0.182	132	138	1	10.0-156			4.73	38
Xylenes, Total	0.394	U	0.444	0.450	113	114	1	10.0-160			1.18	38
(S) Toluene-d8					105	105		75.0-131				
(S) 4-Bromofluorobenzene					97.8	101		67.0-138				
(S) 1,2-Dichloroethane-d4					92.9	95.7		70.0-130				

Method Blank (MB)

(MB) R3517765-1 04/11/20 22:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	75.2			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3517765-2 04/11/20 22:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	38.0	76.0	50.0-150	
(S) o-Terphenyl			55.0	18.0-148	

L1207907-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1207907-10 04/12/20 00:36 • (MS) R3517765-3 04/12/20 00:48 • (MSD) R3517765-4 04/12/20 01:01

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	5.04	34.0	53.7	57.9	97.3	1	50.0-150		J3	44.9	20
(S) o-Terphenyl					27.6	32.0		18.0-148				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015 L1207963-11

Method Blank (MB)

(MB) R3517766-1 04/12/20 05:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	2.09	J	0.274	4.00
(S) o-Terphenyl	75.5			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3517766-2 04/12/20 05:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	38.6	77.2	50.0-150	
(S) o-Terphenyl			57.5	18.0-148	

L1207432-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1207432-01 04/12/20 07:58 • (MS) R3517766-3 04/12/20 08:11 • (MSD) R3517766-4 04/12/20 08:23

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	955	808	965	0.000	20.0	5	50.0-150	V	V	17.7	20
(S) o-Terphenyl					82.9	79.4		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

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

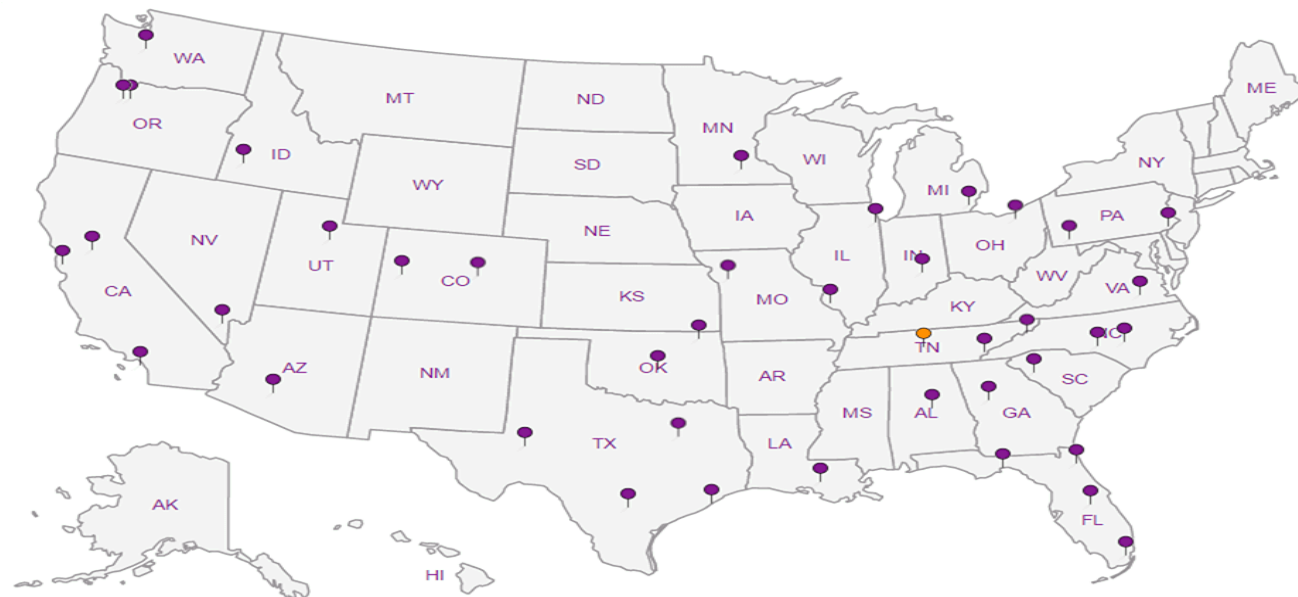
Third Party Federal Accreditations

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

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

Our Locations

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



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

H165

Client Name:	Conoco Phillips	Site Manager:	Christian Llull
Project Name:	COP Baish A Battery	Contact Info:	Email: christian.llull@tetratech.com Phone: (512) 338-1667
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-02120
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Joe Tyler

Comments: COPTETRA Acctnum

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

Comments: COPTETRA Acctnum		LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTX 8021B	BTX 8260B / 624	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>J. Tyler</i>	4-10-20	1300	<i>[Signature]</i>	4-10-20	1300
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>[Signature]</i>	4-10-20	1600	<i>[Signature]</i>	4-10-20	1600
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
<i>[Signature]</i>			<i>[Signature]</i>	4/11/2020	830

LAB USE ONLY

Sample Temperature

REMARKS:

- ☐ Standard
- ☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

04-0102

4510 1659 6354

4-10-20 4:44 PM AR

RAD SCREEN: <0.5 mR/hr

ORIGINAL COPY

1207963

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

Client Name: Conoco Phillips
 Project Name: COP Baish A Battery
 Project Location: Lea County, New Mexico
 Invoice to: Accounts Payable
 901 West Wall Street, Suite 100 Midland, Texas 79701
 Receiving Laboratory: Pace Analytical

Site Manager: Christian Llull
 Contact Info: Email: christian.llull@tetrattech.com
 Phone: (512) 338-1667
 Project #: 212C-MD-02120
 Sampler Signature: Joe Tyler

Comments: COPTETRA Acctnum

Comments: COPTETRA Acctnum		SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTEX 8260B / 6 / 8	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 6 / 8	GC/MS Semi. Vol. 8270C / 608	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Relinquished by: Joe Tyler Date: 4-10-20 Time: 1300
 Received by: [Signature] Date: 4-10-20 Time: 1300
 Relinquished by: [Signature] Date: 4-10-20 Time: 1600
 Received by: [Signature] Date: 4-10-20 Time: 1600
 Relinquished by: [Signature] Date: 4-10-20 Time: 830
 Received by: [Signature] Date: 4-10-20 Time: 830

LAB USE ONLY

Sample Temperature

REMARKS:

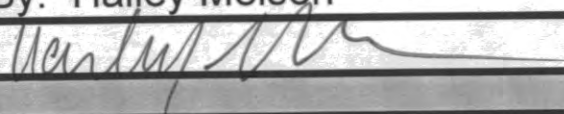
- ☐ Standard
☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

RAD SCREEN: <0.5 mR/hr

Pace Analytical National Center for Testing & Innovation Cooler Receipt Form

Client: <u>CODTETRA</u>	1207963		
Cooler Received/Opened On: <u>4 / 11 / 20</u>	Temperature: <u>14</u>		
Received By: <u>Hailey Melson</u>			
Signature: 			
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	/		
COC Signed / Accurate?		/	
Bottles arrive intact?		/	
Correct bottles used?		/	
Sufficient volume sent?		/	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			



ANALYTICAL REPORT

April 16, 2020

ConocoPhillips - Tetra Tech

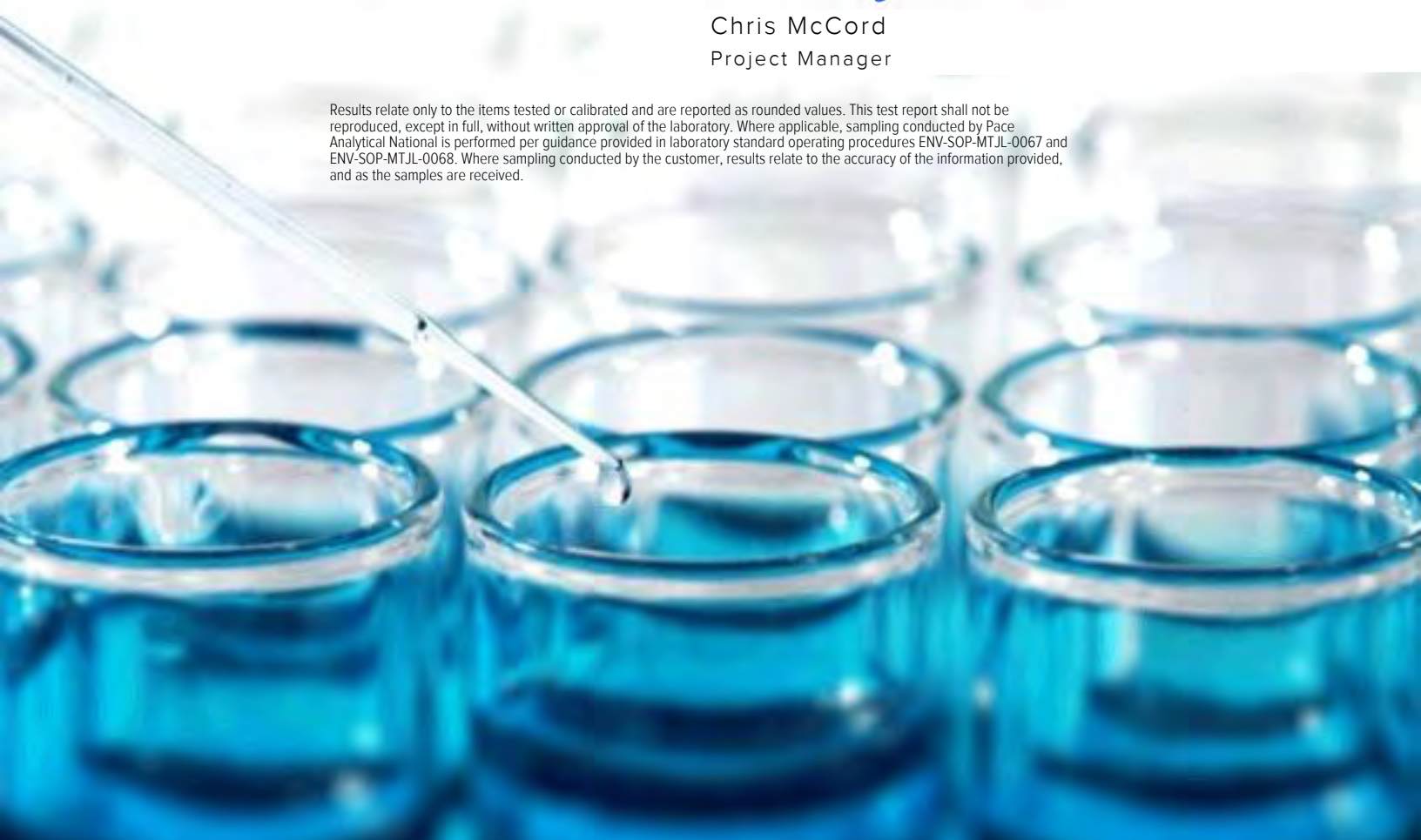
Sample Delivery Group: L1209001
Samples Received: 04/11/2020
Project Number: 212C-MD-02120
Description: COP Baish A Battery

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

Entire Report Reviewed By:

Chris McCord
Project Manager

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



Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	4	
Sr: Sample Results	5	
NSW-9 (6') L1209001-01	5	
Qc: Quality Control Summary	6	
Total Solids by Method 2540 G-2011	6	
Wet Chemistry by Method 300.0	7	
Volatile Organic Compounds (GC) by Method 8015D/GRO	8	
Volatile Organic Compounds (GC/MS) by Method 8260B	9	
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Al: Accreditations & Locations	12	
Sc: Sample Chain of Custody	13	

NSW-9 (6') L1209001-01 Solid

Collected by
Joe Tyler

Collected date/time
04/09/20 08:50

Received date/time
04/11/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1461373	1	04/16/20 08:45	04/16/20 08:55	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1461119	1	04/16/20 00:30	04/16/20 09:47	MSP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1461560	1	04/16/20 08:14	04/16/20 12:07	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1461471	1	04/16/20 08:14	04/16/20 10:40	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1461459	1	04/15/20 21:44	04/16/20 07:40	KME	Mt. Juliet, TN

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Cp

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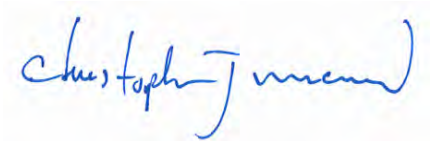
8

Al

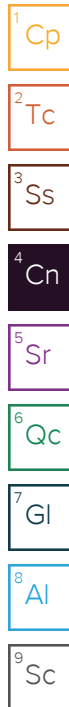
9

Sc

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



Chris McCord
Project Manager



Collected date/time: 04/09/20 08:50

L1209001

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.1		1	04/16/2020 08:55	WG1461373

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	218		11.1	24.1	1	04/16/2020 09:47	WG1461119

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0261	0.120	1	04/16/2020 12:07	WG1461560
(S) a,a,a-Trifluorotoluene(FID)	96.5			77.0-120		04/16/2020 12:07	WG1461560

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	0.000873	J	0.000562	0.00120	1	04/16/2020 10:40	WG1461471
Toluene	0.00311	J	0.00156	0.00602	1	04/16/2020 10:40	WG1461471
Ethylbenzene	U		0.000887	0.00301	1	04/16/2020 10:40	WG1461471
Total Xylenes	U		0.00106	0.00782	1	04/16/2020 10:40	WG1461471
(S) Toluene-d8	105			75.0-131		04/16/2020 10:40	WG1461471
(S) 4-Bromofluorobenzene	97.9			67.0-138		04/16/2020 10:40	WG1461471
(S) 1,2-Dichloroethane-d4	98.5			70.0-130		04/16/2020 10:40	WG1461471

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.43	J	1.94	4.82	1	04/16/2020 07:40	WG1461459
C28-C40 Oil Range	3.50	J	0.330	4.82	1	04/16/2020 07:40	WG1461459
(S) o-Terphenyl	56.6			18.0-148		04/16/2020 07:40	WG1461459

Total Solids by Method 2540 G-2011 [L1209001-01](#)

Method Blank (MB)

(MB) R3519297-1 04/16/20 08:55

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1208786-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1208786-02 04/16/20 08:55 • (DUP) R3519297-3 04/16/20 08:55

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	90.9	90.6	1	0.375		10

Laboratory Control Sample (LCS)

(LCS) R3519297-2 04/16/20 08:55

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

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Ss

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Wet Chemistry by Method 300.0 [L1209001-01](#)

Method Blank (MB)

(MB) R3519229-1 04/16/20 02:58

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

L1208202-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1208202-01 04/16/20 04:43 • (DUP) R3519229-3 04/16/20 05:01

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

L1209001-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1209001-01 04/16/20 09:47 • (DUP) R3519229-6 04/16/20 10:41

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	218	193	1	12.1		20

Laboratory Control Sample (LCS)

(LCS) R3519229-2 04/16/20 03:29

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

L1208202-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1208202-02 04/16/20 05:19 • (MS) R3519229-4 04/16/20 05:36 • (MSD) R3519229-5 04/16/20 05:54

	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	514	506	103	101	1	80.0-120			1.64	20

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

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

L1209001-01

Method Blank (MB)

(MB) R3519265-2 04/16/20 11:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.8			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3519265-1 04/16/20 10:32

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.28	77.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			103	77.0-120	

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Cp

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Sr

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Qc

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Al

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Method Blank (MB)

(MB) R3519181-2 04/16/20 09:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	96.8			67.0-138
(S) 1,2-Dichloroethane-d4	100			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3519181-1 04/16/20 08:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.142	114	70.0-123	
Ethylbenzene	0.125	0.127	102	74.0-126	
Toluene	0.125	0.142	114	75.0-121	
Xylenes, Total	0.375	0.402	107	72.0-127	
(S) Toluene-d8			102	75.0-131	
(S) 4-Bromofluorobenzene			106	67.0-138	
(S) 1,2-Dichloroethane-d4			107	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3519087-1 04/16/20 07:08

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	71.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3519087-2 04/16/20 07:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	38.9	77.8	50.0-150	
(S) o-Terphenyl			90.5	18.0-148	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Guide to Reading and Understanding Your Laboratory Report

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

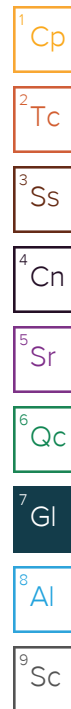
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

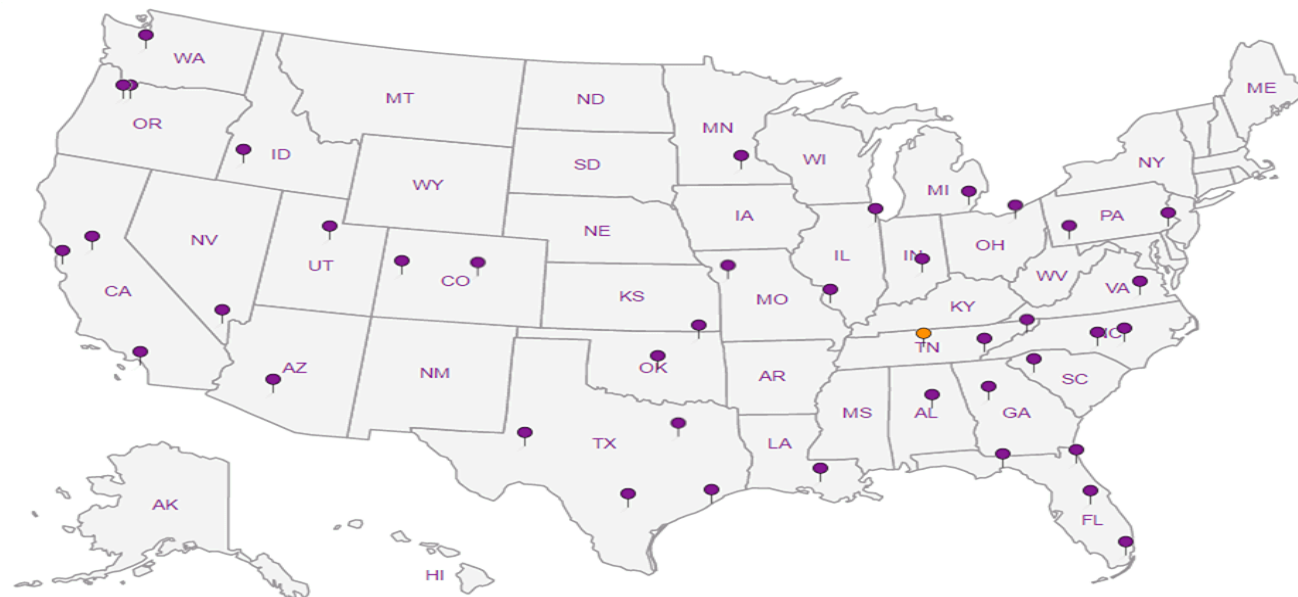
Third Party Federal Accreditations

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

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

Our Locations

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



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

Client Name: Conoco Phillips
 Project Name: COP Balsh A Battery
 Project Location: Lea County, New Mexico
 Invoice to: Accounts Payable
 901 West Wall Street, Suite 100 Midland, Texas 79701
 Receiving Laboratory: Pace Analytical
 Comments: COPTETRA Acctnum

Site Manager: Christian Lull
 Contact Info: Email: christian.lull@tetratech.com
 Phone: (512) 338-1667
 Project #: 212C-MD-02120
 Sampler Signature: Joe Tyler

Comments: COPTETRA Acctnum		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	BTX 8260B / TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 8270C	GC/MS Semi. Vol. 8270C / 8280	PCB's 8082 / 808	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate	General Water Chemistry	Anion/Cation Balance	TPH 8015P	HOLD
LAB #	(LAB USE ONLY)			YEAR: 2020		WATER	SOIL	HCL	HNO3	ICE	NONE																						
				DATE	TIME																												

		NSW-6 (1)	04/09/20	0800	X			X		1	N	X		X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Relinquished by: *J. Lull* Date: 4-10-20 Time: 1500
 Relinquished by: *K. Lull* Date: 4-10-20 Time: 1600
 Relinquished by: *Heather M.* Date: 4-11-2020 Time: 830

Received by: *Heather M.* Date: 4-10-20 Time: 1600
 Received by: *Heather M.* Date: 4-10-20 Time: 1600
 Received by: *Heather M.* Date: 4-11-2020 Time: 830

LAB USE ONLY

REMARKS:

- ☐ Standard
☒ RUSH: Same Day 24 hr. 48 hr. 72 hr.
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

04-0102

4510 1659 6354

4-10-20 4:00 PM

RAD SCREEN: <0.5 mR/hr

Katie Ingram

L1209001

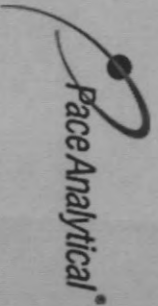
From: Chris McCord <CMcCord@pacenational.com>
Sent: Wednesday, April 15, 2020 3:38 PM
To: Project Service <ProjServ@pacenational.com>
Subject: L1207963 *COPETETRA* RUSH from hold 04-0102
Importance: High

Please log hold samples NSW-9 (6') for CHLORIDE-300, GRO, DRORLA, V8260BTEX, TS. Log as R2 due 4/16.

Thanks.

Christopher McCord

Project Manager II | National
Pace Analytical - National
12065 Lebanon Road | Mt. Juliet, TN 37122
o.615.773.3281 | c.615.504.3183 | pacenational.com



From: Llull, Christian [mailto:Christian.Llull@tetratech.com]
Sent: Wednesday, April 15, 2020 2:35 PM
To: Chris McCord
Cc: Tyler, Joe
Subject: ATTENTION: Analysis Request

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Chris,

Please run the on HOLD sample NSW-9 (6') on a 24 h rush.

COC is L1207963.

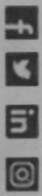
Thanks!

Christian Llull, P.G. | Project Manager
Direct +1 (512) 338-2861 | Business +1 (512) 338-1667 | Fax +1 (512) 338-1331 | christian.llull@tetratech.com

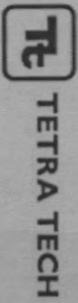
Tetra TechLeading with Science®OGA
8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

L12D9001

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Please consider the environment before printing. [Read more](#)





ANALYTICAL REPORT

April 17, 2020

ConocoPhillips - Tetra Tech

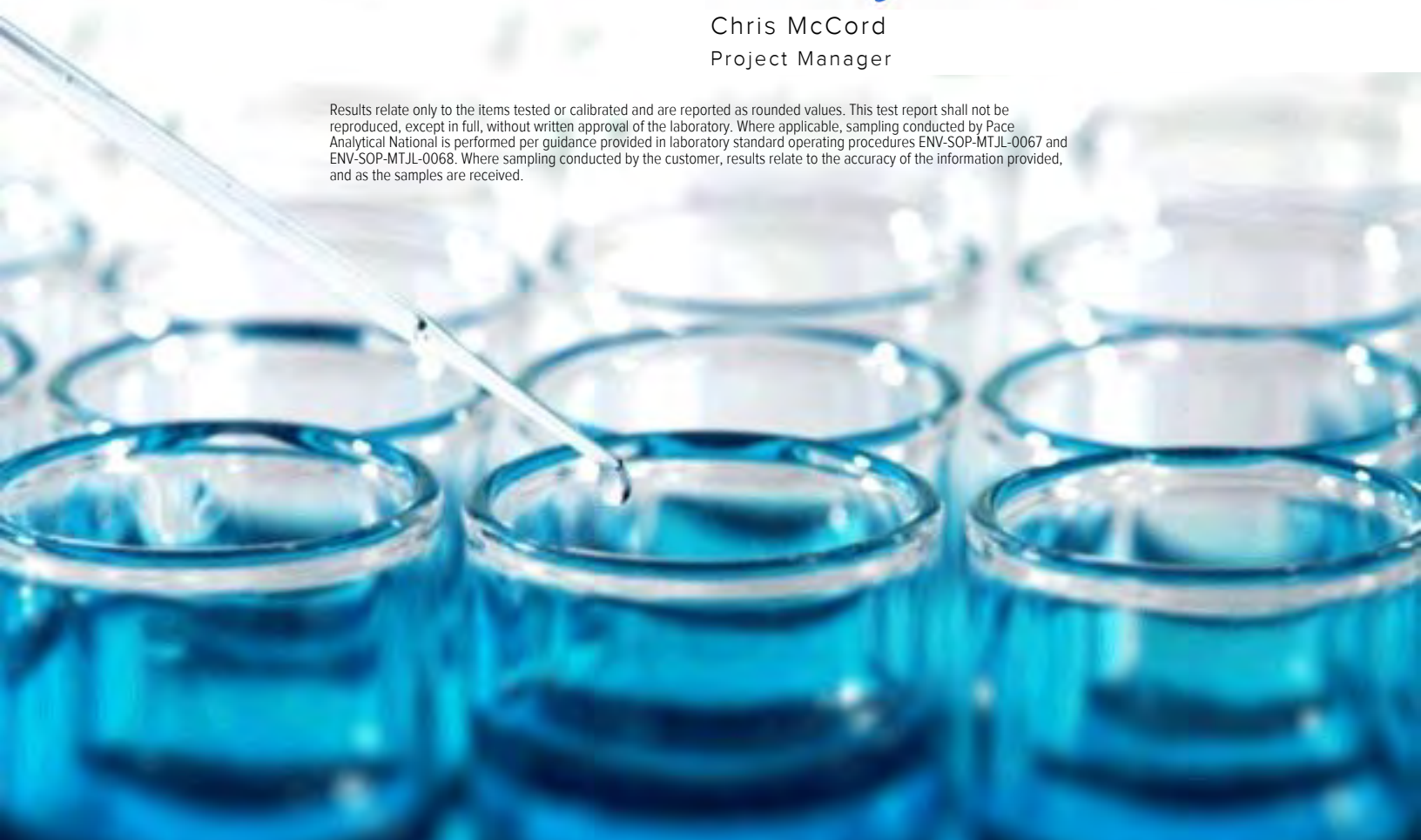
Sample Delivery Group: L1209207
Samples Received: 04/16/2020
Project Number: 212C-MD-02120
Description: COP Baish A Battery

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

Entire Report Reviewed By:

Chris McCord
Project Manager

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



Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
SSW-21 (3') L1209207-01	5	
Qc: Quality Control Summary	6	⁴ Cn
Total Solids by Method 2540 G-2011	6	⁵ Sr
Wet Chemistry by Method 300.0	7	
Volatile Organic Compounds (GC) by Method 8015D/GRO	8	⁶ Qc
Volatile Organic Compounds (GC/MS) by Method 8260B	9	
Semi-Volatile Organic Compounds (GC) by Method 8015	10	⁷ Gl
Gl: Glossary of Terms	11	
Al: Accreditations & Locations	12	⁸ Al
Sc: Sample Chain of Custody	13	⁹ Sc

SAMPLE SUMMARY

SSW-21 (3') L1209207-01 Solid

Collected by
Joe Tyler

Collected date/time
04/14/20 10:00

Received date/time
04/16/20 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1461711	1	04/16/20 14:04	04/16/20 14:13	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1461736	1	04/16/20 15:16	04/16/20 17:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1461649	1	04/16/20 11:20	04/16/20 17:07	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1461672	1	04/16/20 11:20	04/16/20 16:11	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1461759	5	04/16/20 15:06	04/16/20 21:36	FM	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

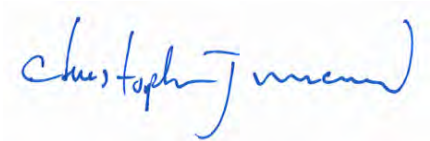
6Qc

7Gl

8Al

9Sc

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



Chris McCord
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Collected date/time: 04/14/20 10:00

L1209207

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.3		1	04/16/2020 14:13	WG1461711

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	U		9.36	20.3	1	04/16/2020 17:13	WG1461736

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	04/16/2020 17:07	WG1461649
(S) a,a,a-Trifluorotoluene(FID)	92.7			77.0-120		04/16/2020 17:07	WG1461649

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000475	0.00102	1	04/16/2020 16:11	WG1461672
Toluene	U		0.00132	0.00509	1	04/16/2020 16:11	WG1461672
Ethylbenzene	U		0.000750	0.00254	1	04/16/2020 16:11	WG1461672
Total Xylenes	U		0.000895	0.00661	1	04/16/2020 16:11	WG1461672
(S) Toluene-d8	110			75.0-131		04/16/2020 16:11	WG1461672
(S) 4-Bromofluorobenzene	96.1			67.0-138		04/16/2020 16:11	WG1461672
(S) 1,2-Dichloroethane-d4	111			70.0-130		04/16/2020 16:11	WG1461672

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	15.5	J	8.19	20.3	5	04/16/2020 21:36	WG1461759
C28-C40 Oil Range	52.1		1.39	20.3	5	04/16/2020 21:36	WG1461759
(S) o-Terphenyl	97.6			18.0-148		04/16/2020 21:36	WG1461759

Total Solids by Method 2540 G-2011

[L1209207-01](#)

Method Blank (MB)

(MB) R3519468-1 04/16/20 14:13

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

L1209159-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1209159-01 04/16/20 14:13 • (DUP) R3519468-3 04/16/20 14:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	86.6	86.7	1	0.113		10

Laboratory Control Sample (LCS)

(LCS) R3519468-2 04/16/20 14:13

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 300.0 [L1209207-01](#)

Method Blank (MB)

(MB) R3519370-1 04/16/20 16:16

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

L1208885-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1208885-07 04/16/20 16:44 • (DUP) R3519370-3 04/16/20 16:54

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	153	138	1	10.5		20

Laboratory Control Sample (LCS)

(LCS) R3519370-2 04/16/20 16:25

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	188	93.9	90.0-110	

L1209207-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1209207-01 04/16/20 17:13 • (MS) R3519370-4 04/16/20 17:22 • (MSD) R3519370-5 04/16/20 17:32

	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	509	U	529	530	104	104	1	80.0-120			0.108	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

L1209207-01

Method Blank (MB)

(MB) R3519553-3 04/16/20 12:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	98.8			77.0-120

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

(LCS) R3519553-1 04/16/20 11:23 • (LCSD) R3519553-2 04/16/20 11:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.09	5.00	92.5	90.9	72.0-127			1.78	20
(S) a,a,a-Trifluorotoluene(FID)				105	106	77.0-120				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

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

L1209207-01

Method Blank (MB)

(MB) R3519408-3 04/16/20 10:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	111			75.0-131
(S) 4-Bromofluorobenzene	95.6			67.0-138
(S) 1,2-Dichloroethane-d4	99.7			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R3519408-1 04/16/20 09:14 • (LCSD) R3519408-2 04/16/20 09:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.116	0.112	92.8	89.6	70.0-123			3.51	20
Ethylbenzene	0.125	0.111	0.109	88.8	87.2	74.0-126			1.82	20
Toluene	0.125	0.117	0.116	93.6	92.8	75.0-121			0.858	20
Xylenes, Total	0.375	0.341	0.320	90.9	85.3	72.0-127			6.35	20
(S) Toluene-d8				107	108	75.0-131				
(S) 4-Bromofluorobenzene				98.1	98.2	67.0-138				
(S) 1,2-Dichloroethane-d4				103	101	70.0-130				

L1209207-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1209207-01 04/16/20 16:11 • (MS) R3519408-4 04/16/20 17:28 • (MSD) R3519408-5 04/16/20 17:47

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.127	U	0.115	0.114	90.4	89.6	1	10.0-149			0.889	37
Ethylbenzene	0.127	U	0.123	0.114	96.8	89.6	1	10.0-160			7.73	38
Toluene	0.127	U	0.124	0.122	97.6	96.0	1	10.0-156			1.65	38
Xylenes, Total	0.381	U	0.347	0.337	90.9	88.3	1	10.0-160			2.98	38
(S) Toluene-d8					111	111		75.0-131				
(S) 4-Bromofluorobenzene					99.3	94.5		67.0-138				
(S) 1,2-Dichloroethane-d4					97.8	96.9		70.0-130				

Method Blank (MB)

(MB) R3519422-1 04/16/20 19:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	82.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3519422-2 04/16/20 20:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	45.6	91.2	50.0-150	
(S) o-Terphenyl			108	18.0-148	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Guide to Reading and Understanding Your Laboratory Report

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

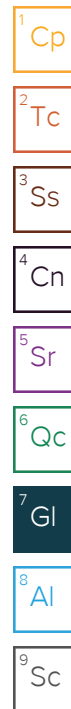
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
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Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

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

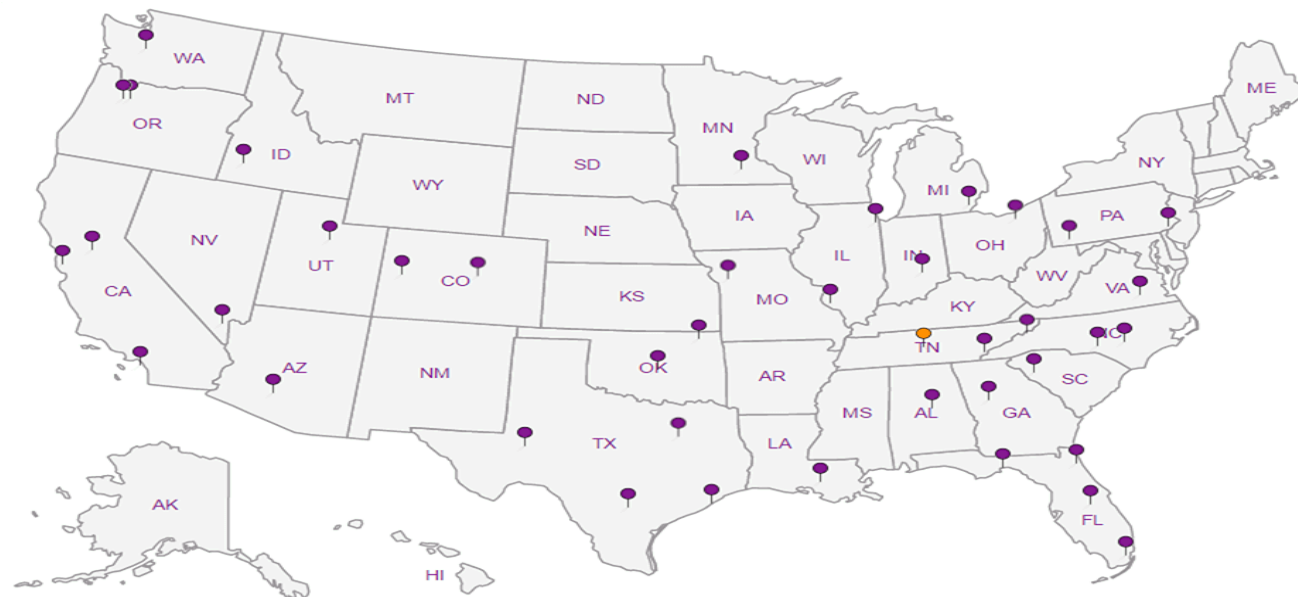
Third Party Federal Accreditations

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

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

Our Locations

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



COPYTRA

1209207

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MPA3 04.8 = 3
RAD SCREEN: <0.5 mR/hr

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

04-0143

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:	COPTETRA	1209207	
Cooler Received/Opened On:	04/16/20	Temperature:	3
Received By:	Brandan Stockton		
Signature:	<i>[Signature]</i>		
Receipt Check List		NP	Yes
COC Seal Present / Intact?		☒	☐
COC Signed / Accurate?		☒	☐
Bottles arrive intact?		☒	☐
Correct bottles used?		☒	☐
Sufficient volume sent?		☒	☐
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

TRK # 4430 3423 7347



ANALYTICAL REPORT

April 20, 2020

ConocoPhillips - Tetra Tech

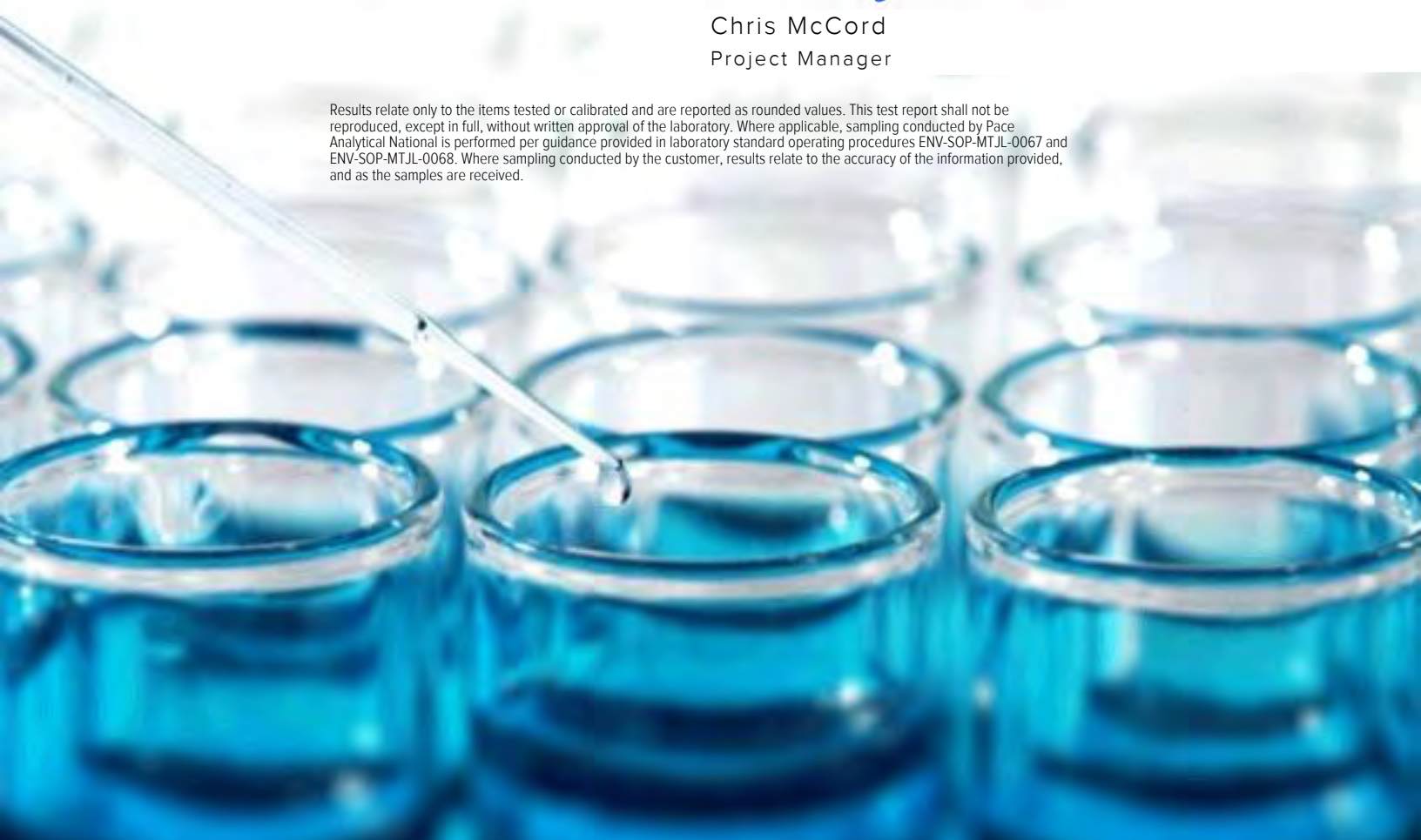
Sample Delivery Group: L1210098
Samples Received: 04/18/2020
Project Number: 212C-MD-02120
Description: COP Baish A Battery

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

Entire Report Reviewed By:

Chris McCord
Project Manager

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



Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
FS-40 (4') L1210098-01	5	
Qc: Quality Control Summary	6	⁴ Cn
Total Solids by Method 2540 G-2011	6	⁵ Sr
Wet Chemistry by Method 300.0	7	
Volatile Organic Compounds (GC) by Method 8015D/GRO	8	⁶ Qc
Volatile Organic Compounds (GC/MS) by Method 8260B	9	
Semi-Volatile Organic Compounds (GC) by Method 8015	10	⁷ Gl
Gl: Glossary of Terms	11	⁸ Al
Al: Accreditations & Locations	12	
Sc: Sample Chain of Custody	13	⁹ Sc

FS-40 (4') L1210098-01 Solid

Collected by
Collected date/time
Received date/time

04/16/20 12:00 04/18/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1463209	1	04/20/20 07:28	04/20/20 07:37	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1463273	1.253133	04/20/20 09:17	04/20/20 11:51	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1462826	1	04/18/20 11:31	04/18/20 19:15	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1462757	1	04/18/20 11:31	04/18/20 12:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1463064	1	04/19/20 15:13	04/20/20 17:01	AEG	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

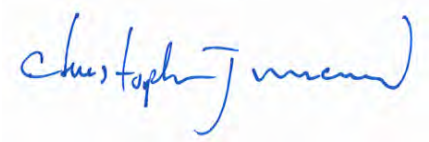
6Qc

7Gl

8Al

9Sc

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

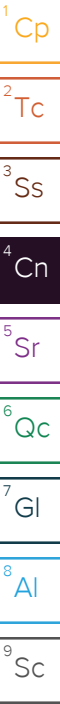


Chris McCord
Project Manager

Sample Delivery Group (SDG) Narrative

Sample quantity was not sufficient to complete analysis per recommended method guidelines for the following samples.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
L1210098-01	FS-40 (4')	300.0



Collected date/time: 04/16/20 12:00

L1210098

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.3		1	04/20/2020 07:37	WG1463209

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	340		12.5	27.1	1.253133	04/20/2020 11:51	WG1463273

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0235	0.108	1	04/18/2020 19:15	WG1462826
(S) a,a,a-Trifluorotoluene(FID)	94.9			77.0-120		04/18/2020 19:15	WG1462826

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000506	0.00108	1	04/18/2020 12:50	WG1462757
Toluene	U		0.00141	0.00541	1	04/18/2020 12:50	WG1462757
Ethylbenzene	U		0.000798	0.00271	1	04/18/2020 12:50	WG1462757
Total Xylenes	U		0.000953	0.00704	1	04/18/2020 12:50	WG1462757
(S) Toluene-d8	107			75.0-131		04/18/2020 12:50	WG1462757
(S) 4-Bromofluorobenzene	98.9			67.0-138		04/18/2020 12:50	WG1462757
(S) 1,2-Dichloroethane-d4	102			70.0-130		04/18/2020 12:50	WG1462757

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.29	J	1.74	4.33	1	04/20/2020 17:01	WG1463064
C28-C40 Oil Range	3.55	J	0.297	4.33	1	04/20/2020 17:01	WG1463064
(S) o-Terphenyl	75.2			18.0-148		04/20/2020 17:01	WG1463064

Total Solids by Method 2540 G-2011 [L1210098-01](#)

Method Blank (MB)

(MB) R3520143-1 04/20/20 07:37

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

L1210056-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1210056-11 04/20/20 07:37 • (DUP) R3520143-3 04/20/20 07:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	71.0	71.7	1	1.02		10

Laboratory Control Sample (LCS)

(LCS) R3520143-2 04/20/20 07:37

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Wet Chemistry by Method 300.0 [L1210098-01](#)

Method Blank (MB)

(MB) R3520118-1 04/20/20 11:05

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

Laboratory Control Sample (LCS)

(LCS) R3520118-2 04/20/20 11:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Chloride	200	202	101	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

L1210098-01

Method Blank (MB)

(MB) R3519853-2 04/18/20 16:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.6			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3519853-3 04/18/20 18:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.93	108	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			115	77.0-120	

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3519862-3 04/18/20 11:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	96.1			67.0-138
(S) 1,2-Dichloroethane-d4	96.6			70.0-130

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

(LCS) R3519862-1 04/18/20 10:42 • (LCSD) R3519862-2 04/18/20 11:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.103	0.109	82.4	87.2	70.0-123			5.66	20
Ethylbenzene	0.125	0.124	0.131	99.2	105	74.0-126			5.49	20
Toluene	0.125	0.106	0.109	84.8	87.2	75.0-121			2.79	20
Xylenes, Total	0.375	0.382	0.385		102	72.0-127			0.782	20
(S) Toluene-d8				106	104	75.0-131				
(S) 4-Bromofluorobenzene				99.9	97.2	67.0-138				
(S) 1,2-Dichloroethane-d4				101	97.1	70.0-130				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

[L1210098-01](#)

Method Blank (MB)

(MB) R3520232-1 04/20/20 16:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	84.2			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3520232-2 04/20/20 16:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	39.4	78.8	50.0-150	
(S) o-Terphenyl			86.9	18.0-148	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Guide to Reading and Understanding Your Laboratory Report

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

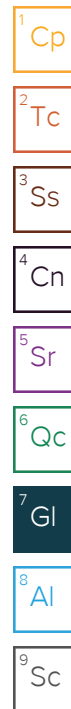
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

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

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
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Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

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

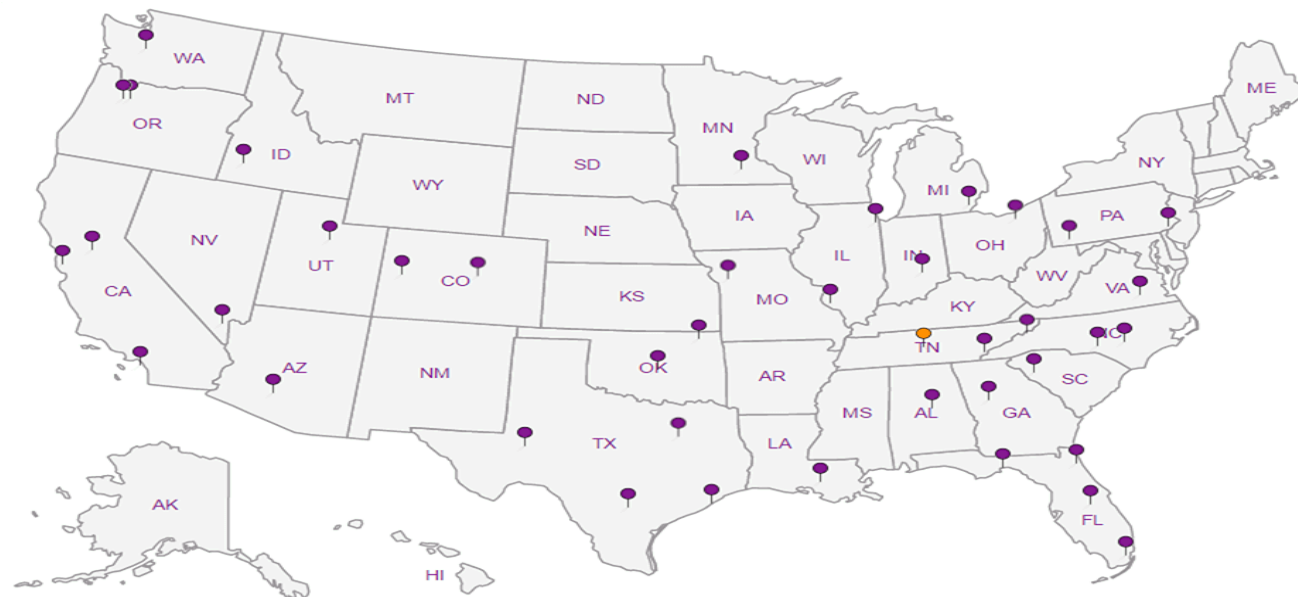
Third Party Federal Accreditations

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

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

Our Locations

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



COPETRA



Tetra Tech, Inc.

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

1210058

Client Name: Conoco Phillips

Site Manager: Christian Lull

Project Name: COP Baish A Battery

Contact Info:	Email: christian.llull@tetrattech.com Phone: (512) 338-1667
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Project Location: (county, state)	Lea County, New Mexico
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Project #: 212C-MD-02120

Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701
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Receiving Laboratory: Pace Analytical

Sampler Signature: Joe Tyler

Comments: COPTETRA Acctnum

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible]

Relinquished by: Bill D. Smith Date: 4-17-20 Time: 13:30

Received by:	Date:	Time:
<i>[Signature]</i>	4-17-20	13:30

Relinquished by: [Signature] Date: 4-17-20 Time: 15:30

Received by:	Date:	Time:
Foght	4-17-20	15:30

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

LAB USE
ONLY

Sample Temperature

REMARKS:

☐ Standard☒ RUSH 24 hr.☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

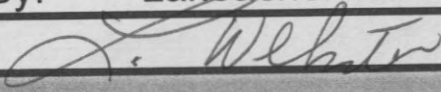
(Circle) HAND DELIVERED FEDEX UPS Tracking #:

RAD SCREEN: <0.5 mR/hr

ORIGINAL COPY

ORIGINAL COPY
4510 1659 6994

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:	CopetecA	121 0098
Cooler Received/Opened On:	4 / 18 / 20	Temperature: 5
Received By:	Lakeacher Webster	
Signature:		
Receipt Check List		
	NP	Yes No
COC Seal Present / Intact?	/	
COC Signed / Accurate?		/
Bottles arrive intact?		/
Correct bottles used?		/
Sufficient volume sent?		/
If Applicable		
VOA Zero headspace?		
Preservation Correct / Checked?		

APPENDIX D

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View west. Baish A Battery signage located east of tanks.	1
	SITE NAME	Baish "A" Battery Release	7/16/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View west. Release area atop lease pad.	2
	SITE NAME	Baish "A" Battery Release	7/16/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View southwest. Release area located in the vicinity of the gunbarrel tank.	3
	SITE NAME	Baish "A" Battery Release	7/16/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View southwest. Stressed vegetation south of lease pad.	4
	SITE NAME	Baish "A" Battery Release	7/16/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View southeast. Stressed vegetation along southern edge of lease pad.	5
	SITE NAME	Baish "A" Battery Release	7/16/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View southwest. Remedial activities of lease pad area and gunbarrel tank vicinity.	6
	SITE NAME	Baish "A" Battery Release	4/8/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View south. Excavation pasture area southeast of lease pad.	7
	SITE NAME	Baish "A" Battery Release	4/9/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View southwest. Excavations in pasture area southeast of lease pad.	8
	SITE NAME	Baish "A" Battery Release	4/9/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View northwest. Excavations of lease pad area.	9
	SITE NAME	Baish "A" Battery Release	4/9/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View southwest. Excavation at southwestern extent of release area.	10
	SITE NAME	Baish "A" Battery Release	4/9/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View southeast. Excavation south of the gunbarrel tank.	11
	SITE NAME	Baish "A" Battery Release	4/9/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View west. Backfilling of excavations southeast of lease pad.	12
	SITE NAME	Baish "A" Battery Release	4/20/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View south-southwest. Backfilling of excavations southeast of lease pad.	13
	SITE NAME	Baish "A" Battery Release	4/20/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View southwest. Remediated and backfilled area north of the gunbarrel tank.	14
	SITE NAME	Baish "A" Battery Release	4/22/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View east-southeast. Backfilling of area east of lease pad.	15
	SITE NAME	Baish "A" Battery Release	4/23/2020



TETRA TECH, INC. PROJECT NO. 212C-MD-02120	DESCRIPTION	View southwest. Lease pad being graded following remediation.	16
	SITE NAME	Baish "A" Battery Release	4/23/2020