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Report of Work Completed – Drilling Assessment

COGCC Location Name (ID)	PRF-63N97W/21NESE (315979)
Operator Location Name	Pinyon Ridge Federal C-1W
Remediation Project #	23348
Legal Description	NESE Sec. 21 T3N-R97W
Coordinates (Lat/Long)	40.212478 / -108.276409
County	Rio Blanco County, Colorado

Mr. Hamilton,

Confluence Compliance Companies, LLC (Confluence) prepared Report of Work Completed (ROWC) for Anschutz Exploration Corporation (Anschutz) to document the findings of site investigation conducted to delineate the vertical extents of soil impacts associated with a release of produced water at the Pinyon Ridge Federal C-1W well pad (Location). The Location is 22.7 miles northwest of Meeker, Colorado in Rio Blanco County as illustrated in the attached Topographic Location Map. Additional information on the Location and associated remediation project is provided in the title block above and in the attached topographic location map and site diagram. The ROWC provides a brief background on the incident and remediation project, methods used to complete the drilling assessment, results of the assessment, and recommendations for how to proceed with this information.

Background

On March 27, 2022, an unknown volume of produced water overflowed from a tank and was spilled inside lined secondary containment. Standing fluids were observed both inside and outside of secondary containment. Fluids were recovered via vacuum truck resulting in the recovery of approximately 19 barrels of produced water. Colorado Oil and Gas Conservation Commission (COGCC) Initial Form 19 Document 403000387 was submitted to document the reportable release and to open Spill/Release Point ID 481972. COGCC Initial Form 27 Document 403056825 was later submitted to open Remediation Project Number 23348.

Initial site investigation efforts including soil and water sampling were completed on May 10, 2022. Eight soil samples were collected at the Location from the point of release (POR) and from visibly saturated areas of the pad surface. Analytical results of soil samples indicated exceedances of COGCC Table 915-1 Residential Screening Levels for total petroleum hydrocarbons (TPH), pH, sodium adsorption ratio (SAR), and arsenic. Three water samples were also collected from the Location. 220510-PREFCIW-WW was collected from equipment on site as a produced water waste characterization sample. 220510-PREFCIW-OFLOW POND was collected as a surface water sample from the overflow pond on location, and 220510-PREFCIW-STOCK was collected from the surface water downgradient of the location. The waste characterization sample demonstrated levels of benzene, chloride, and sulfate above COGCC Table 915-1 Residential Soil Screening Levels. Analytical results of both surface water samples were within COGCC Table 915-1 allowable limits for all constituents of concern.

On July 25, 2022, Confluence coordinated and oversaw drilling activities to delineate the extents of confirmed soil impacts. A total of 10 soil borings were advanced using a direct push drill rig. With the exception of SB04, two soil samples were collected from each soil boring: one from the most impacted interval as determined by field observations and one from the terminus of the boring. No sample was collected from SB04 due to encountering refusal at 4 feet below ground surface (bgs). Field screening was completed using visual and olfactory observations. Subsurface conditions were logged, and collected samples were packed on ice and delivered to a laboratory for analysis of the approved reduced suite of TPH, pH, SAR, and arsenic. Laboratory results of the borehole samples collected on July 25, 2022, indicate compliance with COGCC Table 915-1 Residential Soil Screening Levels except for SAR, pH, and arsenic.

Methodology

On September 28, 2022, Confluence returned to the Location to delineate the extent of soil impacts within secondary containment. Three soil borings (PHNE, PHNW, and PHS) were advanced with a hand auger to total depths ranging from 4 to 12 feet bgs. Two soil samples were collected from each boring with the exception of PHNW: one from the most impacted interval as determined by field observations and one from the terminus of the boring. One soil sample was collected from PHNW as field screening did not indicate soil impacts. Soil samples were field screened using visual and olfactory observations and using a photoionization detector (PID). Additionally, five background soil samples were collected from nearby, native, non-impacted soil.

All collected soil samples were placed in laboratory provided containers, immediately placed on ice, and shipped for laboratory analysis under a completed chain-of-custody form to Pace Analytical Services (Pace). Characterization soil samples were submitted for analysis of the approved reduced suite of TPH, pH, SAR, and arsenic. Background samples were submitted for analysis of pH, SAR, and arsenic. Sample locations are illustrated in the attached Site Diagram.

Results

These results summarize findings from the site investigation. For organizational and presentation purposes, the results summary is divided between general observations of lithology and hydrogeology for the entire Location and site investigation activities. Collected spatial data are depicted in the attached Site Diagram. Laboratory analytical reports are attached and summarized in the Laboratory Results Summary Table.

Lithology and Hydrogeology

Lithology at the Location is characterized by clay loam with interbedded mudstone lenses between 4 feet bgs to 22.5 feet bgs. Groundwater is expected to flow northeast towards Open Gulch and ultimately to the White River, located 4.7 miles south of the Location.

Secondary Containment Sampling

Hydrocarbon staining and odor were noted throughout PHNE and in PHS to 2 feet bgs. PID measurements ranged from 1.5 parts per million (ppm) in PHNW to 2,702 ppm in PHNE at 4 feet bgs. Laboratory results of the soil boring samples collected on September 28, 2022, exceed COGCC Table 915-1 Residential Soil Screening Levels for TPH, SAR, pH, and arsenic. TPH exceeds in PHNE at 1101 milligrams per kilogram (mg/kg) at 12 feet bgs and 1535 mg/kg at 4 feet bgs. SAR exceedances range from 18.4 in PHS at 4 feet bgs to 70.2 in PHS at 1.5 feet bgs. Exceedances of



pH range between 8.35 in PHS at 1.5 feet bgs to 8.69 PHNE at 12 feet bgs. Arsenic exceedances range between 5.67 mg/kg in PHNE at 12 feet bgs to 6.88 mg/kg in PHS at 1.5 feet bgs

Background Sampling

Laboratory results of background samples collected on September 28, 2022, exceed COGCC Table 915-1 Residential Soil Screening Levels for pH and arsenic. Exceedances of pH range from 8.33 to 8.75, and arsenic exceedances range from 3.10 to 8.16 mg/kg.

Analysis and Recommendations

Based on a review of laboratory results and spatial data, TPH, SAR, pH, and arsenic exceeding COGCC Table 915-1 Residential Soil Screening Levels remain at the Location. Horizontal delineation of TPH was achieved in the previous site investigation event; however, TPH remains undelineated vertically beneath secondary containment. Background data collected from the Location also demonstrates elevated levels of pH and arsenic.

Confluence recommends the pad surface impacts identified during May 2022 site investigation be removed and property disposed and that additional site investigation be conducted to delineate TPH, SAR, pH, and arsenic impacts. Confluence also recommends additional background sampling to further characterize native levels of inorganic constituents of concern at the Location.

Confluence is grateful for the opportunity to support you with this project. If you have any questions about the methods, results, or recommendations presented here, please do not hesitate to contact me.

Regards,



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Attachments

- Topographic Location Map
- Site Diagram – Sample Locations
- Site Diagram – Background Locations
- Analytical Results Summary Table – Soil
- Analytical Results Summary Table - Water
- Laboratory Report



Topographic Location Map

Anschutz Exploration Corp

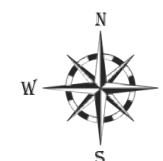
Pinyon Ridge Federal C-1W

(PRF-63N97W /21NESE)

COGCC Location ID: 315979

Rio Blanco County

NESE Sec. 21 T3N-R75W



Topographic map sourced from 2020 Earth Point
using data provided by United States Geological
Survey

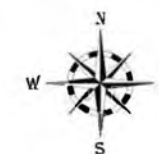
Created by: Chris McKisson on 05/23/2022.

Pinyon Ridge Federal C-1W



Site Diagram Sample Locations

Caerus Oil and Gas LLC
Pinyon Ridge Federal C-1W
(PRF-63N97W /21NESE)
COGCC Location ID: 315979
Rio Blanco County
NESE Sec. 21 T3N-R97W



Legend

- Soil Sample – 05/10/2022
- Soil Sample – 07/25/2022
- Soil Sample – 09/28/2022
- Water Sample – 05/10/2022

Spatial data was collected using a handheld GPS unit with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. The position of illustrated data may have been manually adjusted to align with the aerial imagery in a manner more representative of field conditions for presentation purposes only.

Map created by: Alex Storby on 09/30/2022.



Site Diagram Background Locations

Caerus Oil and Gas LLC

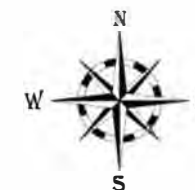
Pinyon Ridge Federal C-1W

(PRF-63N97W /21NESE)

COGCC Location ID: 315979

Rio Blanco County

NESE Sec. 21 T3N-R97W



Legend

 Soil Sample – 09/28/2022

Spatial data was collected using a handheld GPS unit with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. The position of illustrated data may have been manually adjusted to align with the aerial imagery in a manner more representative of field conditions for presentation purposes only.

Map created by: Alex Slorby on 09/30/2022.

20220908-PR_FED_C-1W-BG(1440)@1'

20220908-PR_FED_C-1W-BG(1455)@1'

20220908-PR_FED_C-1W-BG(1450)@1'

20220908-PR_FED_C-1W-BG(1515)@1'

20220908-PR_FED_C-1W-BG(1525)@1'

800 ft

Laboratory Results Summary Table - Soil
Pinyon Ridge Federal C-1W

Soil Screening and Remediation Limits						Organic Compounds (mg/kg [ppm])																									
COGCC Table 915-1 Residential -->					NA	500	NA	NA	NA	1.2	490	5.8	58	30	27	360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	18	24	2	180	
Sample Date	Solid/Soil Source (Equipment) (Vault/Sump, Separator, Tank Battery, Dump Line, Pit, Cuttings, Background, etc.)	Depth - Z (feet) (NEGATIVE VALUE) below ground surface (bgs)		Sample ID	PID (ppm)	TPH (total volatile and extractable petroleum hydrocarbons) (GRO+DRO+ORO)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	TPH-ORO (C28-C39) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total (sum of o-, m-, p-isomers)	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(A)pyrene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Chrysene	Dibenz(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-CD)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Pyrene	
9/28/2022	Tank Battery	-4		20220928-PR_FED_C-1W-PHNE@4'	2702	1535	1420	88.3	26.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/28/2022	Tank Battery	-12		20220928-PR_FED_C-1W-PHNE@12'	2148	1101	1050	36.7	13.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/28/2022	Tank Battery	-4		20220928-PR_FED_C-1W-PHNW@4'	1.5	1.77	0.0559	<4.00	1.71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/28/2022	Tank Battery	-1.5		20220928-PR_FED_C-1W-PHS@1.5'	309.2	32.4	6.59	11.7	14.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/28/2022	Tank Battery	-4		20220928-PR_FED_C-1W-PHS@4'	5.9	0.393	0.0828	<4.00	0.310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-20		220725-C1W-SB06@17.5'-20'	NA	ND	<0.100	<4.00	<4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-17.5		220725-C1W-SB07@15'-17.5'	NA	ND	<0.100	<4.00	<4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-14.5		220725-C1W-SB08@12'-14.5'	NA	ND	<0.100	<4.00	<4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-15		220725-C1W-SB10@12.5'-15'	NA	336	332	2.17	1.81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-19		220725-C1W-SB03@16'-19'	NA	155	142	6.44	6.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-22.5		220725-C1W-SB03@20'-22.5'	NA	83.6	44.2	34.8	4.58	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-15		220725-C1W-SB02@10'-15'	NA	49.2	49.2	<4.00	<4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-15		220725-C1W-SB06@12.5'-15'	NA	26.5	<0.100	2.39	24.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-10		220725-C1W-SB08@8'-10'	NA	3.51	<0.100	<4.00	3.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-15		220725-C1W-SB07@12.5'-15'	NA	2.93	<0.100	<4.00	2.93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-25		220725-C1W-SB05@22'-25'	NA	2.54	0.0411	<4.00	2.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-17.5		220725-C1W-SB02@15'-17.5'	NA	2.13	0.0277	<4.00	2.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-20		220725-C1W-SB01@17.5'-20'	NA	2.03	<0.100	<4.00	2.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-15		220725-C1W-SB09@12.5'-15'	NA	1.15	0.0765	<4.00	1.07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-19.5		220725-C1W-SB10@17.5'-19.5'	NA	0.836	0.0384	<4.00	0.798	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-22.5		220725-C1W-SB01@20'-22.5'	NA	0.481	<0.100	<4.00	0.481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-19.5		220725-C1W-SB09@17'-19.5'	NA	0.444	0.0938	<4.00	0.350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/25/2022	Tank Battery	-20		220725-C1W-SB05@17.5'-20'	NA	0.0374	0.0374	<4.00	<4.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
5/10/2022	Tank Battery	-1.5		220510-PRFCIW-GENE18	397.6	4414	495	3900	18.6	0.0054	0.0194	1.45	5.03	11.3	2.6	0.24	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.383	<0.00600	2.8	3.19	1.74	0.116	
5/10/2022	Tank Battery	-1		220510-PRFCIW-NESTAIN12	88.8	3392	1.51	2340	1050	0.00065	0.00455	0.00657	0.216	0.295	0.153	0.0748	<0.00600	<0.00600	<0.00600	0.00459	0.00408	0.0185	<0.00600	0.0204	0.401	<0.00600	1.35	1.72	0.277	0.0154	
5/10/2022	Tank Battery	-3		220510-PRFCIW-GENE36	438.9	2855	485	2370	<40.0	0.00455	0.0123	1.82	5.2	12.4	2.88	0.266	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.403	<0.00600	2.34	2.76	1.54	0.142
5/10/2022	Tank Battery	-3		220510-PRFCIW-PORE36	1470	1743	1400	282	61.2	0.0123	0.0705	1.23	21.3	6.02	5.85	0.00424	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00897	<0.00600	0.0719	0.205	0.105	<0.00600
5/10/2022	Tank Battery	-1		220510-PRFCIW-NSTAIN12	138.7	339	5.68	227	106	<0.00100	<0.00100	0.00085	0.00376	0.00478	0.114	0.0128	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.003	<0.00600	0.00282	0.0505	<0.00600	0.178	0.00555	0.00902	0.00317
5/10/2022	Tank Battery	-0.5		220510-PRFCIW-PUMPSW6	40	69.3	0.791	41.6	26.9	<0.00100	<0.00500	<0.00250	0.00178	<0.00500	0.0079	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	0.00262	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	
5/10/2022	Tank Battery	-1		220510-PRFCIW-PORE12	28.7	60.2	1.8	31.9	26.5	<0.00100	<0.00500	<0.00250	0.0143	0.00528	0.0234	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600	
5/10/2022	Tank Battery	-1		220510-PRFCIW-PUMPSW12	0.8	20.2	0.12	6.34	13.7	<0.00100	<0.00500	<0.00250	0.00124	<0.00500	0.00752	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.00600	<0.0200	<0.0200	<0.0200	<0.00600		
9/28/2022	Background	-1		20220928-PR_FED_C-1W-BG(1455) @ 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/28/2022	Background	-1		20220928-PR_FED_C-1W-BG(1450) @ 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/28/2022	Background	-1		20220928-PR_FED_C-1W-BG(1515) @ 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/28/2022	Background	-1		20220928-PR_FED_C-1W-BG (1520) @ 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/28/2022	Background	-1		20220928-PR_FED_C-1W-BG (1440) @ 1'	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	



Laboratory Results Summary Table - Soil
Pinyon Ridge Federal C-1W

11/1/2022

Soil Screening and Remediation Limits					Soil Suitability for Reclamation				Metals (mg/kg (ppm))									
COGCC Table 915-1 Residential -->				NA	4	6	6-8.3	2	0.68	15000	71	0.3	3100	400	1500	390	390	23000
Sample Date	Solid/Soil Source (Equipment) (Vault Sump, Separator, Tank Battery, Dump Line, Pit, Cullings, Background etc.)	Depth - Z (feet) (NEGATIVE VALUE) below ground surface (bgs)	Sample ID	PID (ppm)	EC (Specific Conductance) (millimhos/centimeter) (by saturated paste method)	SAR (Sodium Adsorption Ratio) (calculation) (by saturated paste method)	pH (pH Units) (by saturated paste method)	Boron - Hot Water Soluble (mg/L)	Arsenic	Barium	Cadmium (mg/kg)	Chromium (VI)	Copper	Lead	Nickel	Selenium	Silver	Zinc
9/28/2022	Tank Battery	-4	20220928-PR_FED_C-1W-PHNE@4'	2702	NA	20.6	8.27	NA	6.26	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-12	20220928-PR_FED_C-1W-PHNE@12'	2148	NA	25.7	8.69	NA	5.67	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-4	20220928-PR_FED_C-1W-PHNE@4'	1.5	NA	3.74	8.24	NA	6.07	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-1.5	20220928-PR_FED_C-1W-PHS@1.5'	309.2	NA	70.2	8.35	NA	6.88	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Tank Battery	-4	20220928-PR_FED_C-1W-PHS@4'	5.9	NA	18.4	8.61	NA	6.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-20	220725-C1W-SB06@17.5'-20'	NA	NA	23.5	7.19	NA	6.59	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-17.5	220725-C1W-SB07@15'-17.5'	NA	NA	34.7	5.55	NA	4.65	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-14.5	220725-C1W-SB08@12'-14.5'	NA	NA	19.6	6.73	NA	11.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB10@12.5'-15'	NA	NA	21.2	7.94	NA	8.86	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-19	220725-C1W-SB03@16'-19'	NA	NA	8.23	8.08	NA	19.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-22.5	220725-C1W-SB03@20'-22.5'	NA	NA	7.02	6.66	NA	38.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB02@10'-15'	NA	NA	8.11	8.12	NA	6.43	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB06@12.5'-15'	NA	NA	14.3	4.81	NA	49.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-10	220725-C1W-SB08@8'-10'	NA	NA	15.3	7.14	NA	21.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB07@12.5'-15'	NA	NA	26.8	5.03	NA	12.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-25	220725-C1W-SB05@22'-25'	NA	NA	10.6	7.94	NA	8.70	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-17.5	220725-C1W-SB02@15'-17.5'	NA	NA	5.90	7.52	NA	26.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-20	220725-C1W-SB01@17.5'-20'	NA	NA	17.5	5.45	NA	30.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-15	220725-C1W-SB09@12.5'-15'	NA	NA	9.55	8.05	NA	6.50	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-19.5	220725-C1W-SB10@17.5'-19.5'	NA	NA	5.78	7.51	NA	5.25	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-22.5	220725-C1W-SB01@20'-22.5'	NA	NA	14.2	6.54	NA	6.14	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-19.5	220725-C1W-SB09@17'-19.5'	NA	NA	6.44	7.98	NA	7.09	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/25/2022	Tank Battery	-20	220725-C1W-SB05@17.5'-20'	NA	NA	4.60	7.82	NA	6.30	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/10/2022	Tank Battery	-1.5	220510-PRFCIW-GENE18	397.6	0.955	1.14	7.38	0.573	4.52	80.6	0.289	<1.00	15	10.7	11.6	NA	<1.00	44.3
5/10/2022	Tank Battery	-1	220510-PRFCIW-NESTAIN12	88.8	0.729	8.25	8.38	0.696	6.44	193	0.323	<1.00	15.3	10.2	18	NA	<1.00	46.1
5/10/2022	Tank Battery	-3	220510-PRFCIW-GENE36	438.9	0.443	3.46	7.67	0.647	7.12	114	0.388	<1.00	21.2	10.7	16.2	NA	<1.00	57.8
5/10/2022	Tank Battery	-3	220510-PRFCIW-PORE36	1470	2.810	17.6	7.77	1.040	5.15	95.3	0.285	<1.00	14.3	8.26	12.2	NA	<1.00	44.7
5/10/2022	Tank Battery	-1	220510-PRFCIW-NSTAIN12	138.7	1.390	0.871	7.69	0.423	7.85	114	0.308	<1.00	18.3	11	18.8	NA	<1.00	53.1
5/10/2022	Tank Battery	-0.5	220510-PRFCIW-PUMPSW6	40	1.300	2.02	8.84	0.138	5.45	105	0.281	0.261	14.6	8.62	12.9	NA	<1.00	43.9
5/10/2022	Tank Battery	-1	220510-PRFCIW-PORE12	28.7	1.060	4.63	8.45	0.903	4.46	95.8	0.261	0.3	17.5	6.94	22.5	NA	<1.00	40.2
5/10/2022	Tank Battery	-1	220510-PRFCIW-PUMPSW12	0.8	1.560	12.4	8.85	0.812	5.92	132	0.289	<0.255	15.3	8.65	15.5	NA	<1.00	44.4
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG(1455) @ 1'	NA	NA	4.26	8.75	NA	8.05	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG(1450) @ 1'	NA	NA	0.108	8.33	NA	3.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG(1515) @ 1'	NA	NA	0.0659	8.29	NA	4.01	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG(1520) @ 1'	NA	NA	0.0772	8.37	NA	5.32	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/28/2022	Background	-1	20220928-PR_FED_C-1W-BG(1440) @ 1'	NA	NA	0.0894	8.19	NA	8.16	NA	NA	NA	NA	NA	NA	NA	NA	NA

Laboratory Results Summary Table - Water
Pinyon Ridge Federal 1-30

5/26/2022

		Organic Compounds (µg/L)									Inorganics (mg/L)		
		5	560-1,000	700	1,400-10,000	140	67	67	NA	NA	1.25xBG	250 or 1.25xBG	250 or 1.25xBG
Sample Date	Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes - total	Naphthalene	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	TPH Low Fraction (GRO)	TPH High Fraction (DRO)	TDS 1.25 x background	Chlorides 1.25 x background	Sulfates 1.25 x background
5/10/22	220510-PREFCIW-OFLOW POND	<0.00100	<0.00100	<0.00100	<0.00300	<0.00500	<0.00100	<0.00100	NA	NA	600	18.1	233
5/10/22	220510-PREFCIW-WW	6.73	6.01	0.243	2.35	<2.50	0.317	0.0845	NA	NA	46000	27400	<500
5/10/22	220510-PREFCIW-STOCK	<0.00100	<0.00100	<0.00100	<0.00300	<0.00500	<0.00100	<0.00100	NA	NA	521	1.33	1.28

Confluence Compliance Companies - CO

Sample Delivery Group: L1519613
Samples Received: 07/28/2022
Project Number:
Description: Pinyon Ridge C1W
Site: PINYON RIDGE
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

Entire Report Reviewed By:



Chris Ward
Project Manager

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



Pace Analytical National

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

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

SAMPLE SUMMARY

220725-C1W-SB01@17.5'-20' L1519613-01 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 09:10

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:12	08/10/22 19:12	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903736	1	08/01/22 11:00	08/01/22 13:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1904634	5	08/03/22 09:00	08/04/22 14:50	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 10:43	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 19:52	JAS	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

220725-C1W-SB01@20'-22.5' L1519613-02 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 09:15

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:15	08/10/22 19:15	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903946	1	08/01/22 14:00	08/01/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1904634	10	08/03/22 09:00	08/04/22 15:03	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 11:04	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 17:27	JAS	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

220725-C1W-SB02@10'-15' L1519613-03 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 09:45

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:18	08/10/22 19:18	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903736	1	08/01/22 11:00	08/01/22 13:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1904634	5	08/03/22 09:00	08/04/22 15:06	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1904264	25	07/28/22 19:17	08/02/22 22:57	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 17:40	JAS	Mt. Juliet, TN

⁹ Sc

220725-C1W-SB02@15'-17.5' L1519613-04 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 09:50

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:21	08/10/22 19:21	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903736	1	08/01/22 11:00	08/01/22 13:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1904634	5	08/03/22 09:00	08/04/22 15:09	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1904270	1	07/28/22 19:17	08/03/22 09:13	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 19:13	JAS	Mt. Juliet, TN

220725-C1W-SB03@16'-19' L1519613-05 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 10:20

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:23	08/10/22 19:23	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903736	1	08/01/22 11:00	08/01/22 13:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1904634	5	08/03/22 09:00	08/04/22 15:12	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902696	100	07/28/22 19:17	07/29/22 10:54	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 18:59	JAS	Mt. Juliet, TN

SAMPLE SUMMARY

220725-C1W-SB03@20'-22.5' L1519613-06 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 10:25

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 19:26	08/10/22 19:26	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903946	1	08/01/22 14:00	08/01/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:24	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902696	200	07/28/22 19:17	07/29/22 11:17	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 20:05	JAS	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

220725-C1W-SB05@17.5'-20' L1519613-07 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 11:20

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904084	1	08/10/22 18:18	08/10/22 18:18	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903946	1	08/01/22 14:00	08/01/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:27	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1904270	1	07/28/22 19:17	08/03/22 09:33	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 17:53	JAS	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

220725-C1W-SB05@22'-25' L1519613-08 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 11:35

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 15:03	08/10/22 15:03	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903946	1	08/01/22 14:00	08/01/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:30	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1904270	1	07/28/22 19:17	08/03/22 09:54	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 18:07	JAS	Mt. Juliet, TN

⁹ Sc

220725-C1W-SB06@12.5'-15' L1519613-09 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 12:20

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 16:58	08/10/22 16:58	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904469	1	08/02/22 14:00	08/02/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:34	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 12:52	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 20:19	JAS	Mt. Juliet, TN

220725-C1W-SB06@17.5'-20' L1519613-10 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 12:25

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:01	08/10/22 17:01	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904588	1	08/02/22 16:34	08/03/22 13:00	SDE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:37	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 13:14	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 18:20	JAS	Mt. Juliet, TN

SAMPLE SUMMARY

220725-C1W-SB07@12.5'-15' L1519613-11 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 12:55

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:04	08/10/22 17:04	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904878	1	08/03/22 09:56	08/03/22 12:00	SDE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 10:42	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 13:35	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 19:26	JAS	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

⁴ Cn

220725-C1W-SB07@15'-17.5' L1519613-12 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 13:00

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:07	08/10/22 17:07	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904878	1	08/03/22 09:56	08/03/22 12:00	SDE	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:40	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 13:57	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 18:46	JAS	Mt. Juliet, TN

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

220725-C1W-SB08@8'-10' L1519613-13 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 13:15

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:09	08/10/22 17:09	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904218	1	08/02/22 09:00	08/02/22 11:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1903349	5	08/01/22 09:00	08/02/22 11:27	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 14:18	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 19:39	JAS	Mt. Juliet, TN

⁹ Sc

220725-C1W-SB08@12'-14.5' L1519613-14 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 13:20

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:12	08/10/22 17:12	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904469	1	08/02/22 14:00	08/02/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1903349	5	08/01/22 09:00	08/02/22 11:30	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902694	1	07/28/22 19:17	07/29/22 14:40	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903900	1	08/02/22 11:29	08/02/22 18:33	JAS	Mt. Juliet, TN

220725-C1W-SB09@12.5'-15' L1519613-15 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 13:45

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:15	08/10/22 17:15	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1903946	1	08/01/22 14:00	08/01/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1903349	5	08/01/22 09:00	08/02/22 11:34	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1903614	1	07/28/22 19:17	08/01/22 13:21	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903903	1	08/02/22 09:14	08/02/22 16:57	JAS	Mt. Juliet, TN

SAMPLE SUMMARY

220725-C1W-SB09@17'-19.5' L1519613-16 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 13:50

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:18	08/10/22 17:18	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904218	1	08/02/22 09:00	08/02/22 11:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1903349	5	08/01/22 09:00	08/02/22 11:37	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1903614	1	07/28/22 19:17	08/01/22 13:44	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903903	1	08/02/22 09:14	08/02/22 17:09	JAS	Mt. Juliet, TN

220725-C1W-SB10@12.5'-15' L1519613-17 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 14:10

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:26	08/10/22 17:26	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904469	1	08/02/22 14:00	08/02/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:44	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1902696	100	07/28/22 19:17	07/29/22 11:39	JAH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903903	1	08/02/22 09:14	08/02/22 17:09	JAS	Mt. Juliet, TN

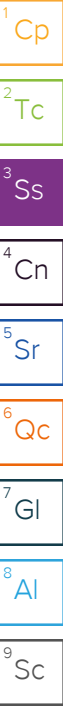
220725-C1W-SB10@17.5'-19.5' L1519613-18 Solid

Collected by
Andrew Smith

Collected date/time
07/25/22 14:15

Received date/time
07/28/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1904085	1	08/10/22 17:29	08/10/22 17:29	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1904469	1	08/02/22 14:00	08/02/22 16:00	NTG	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1902672	5	08/07/22 12:12	08/10/22 11:53	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1903614	1	07/28/22 19:17	08/01/22 14:07	MGF	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1903903	1	08/02/22 09:14	08/02/22 17:22	JAS	Mt. Juliet, TN



CASE NARRATIVE

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 Ward
Project Manager



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	17.5		1	08/10/2022 19:12	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	5.45	<u>T8</u>	1	08/01/2022 13:00	WG1903736

Sample Narrative:

L1519613-01 WG1903736: 5.45 at 23.2C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	30.9		0.100	1.00	5	08/04/2022 14:50	WG1904634

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 10:43	WG1902694
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	114			77.0-120		07/29/2022 10:43	WG1902694

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 19:52	WG1903900
C28-C36 Motor Oil Range	2.03	<u>J</u>	0.274	4.00	1	08/02/2022 19:52	WG1903900
(S) <i>o</i> -Terphenyl	55.2			18.0-148		08/02/2022 19:52	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	14.2		1	08/10/2022 19:15	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	6.54	T8	1	08/01/2022 16:00	WG1903946

Sample Narrative:

L1519613-02 WG1903946: 6.54 at 24.1C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	6.14		0.200	2.00	10	08/04/2022 15:03	WG1904634

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 11:04	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	114			77.0-120		07/29/2022 11:04	WG1902694

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 17:27	WG1903900
C28-C36 Motor Oil Range	0.481	J	0.274	4.00	1	08/02/2022 17:27	WG1903900
(S) o-Terphenyl	62.8			18.0-148		08/02/2022 17:27	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	8.11		1	08/10/2022 19:18	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.12	T8	1	08/01/2022 13:00	WG1903736

Sample Narrative:

L1519613-03 WG1903736: 8.12 at 23.4C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	6.43		0.100	1.00	5	08/04/2022 15:06	WG1904634

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	49.2		0.543	2.50	25	08/02/2022 22:57	WG1904264
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120		08/02/2022 22:57	WG1904264

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 17:40	WG1903900
C28-C36 Motor Oil Range	U		0.274	4.00	1	08/02/2022 17:40	WG1903900
(S) o-Terphenyl	39.3			18.0-148		08/02/2022 17:40	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.90		1	08/10/2022 19:21	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.52	<u>T8</u>	1	08/01/2022 13:00	WG1903736

Sample Narrative:

L1519613-04 WG1903736: 7.52 at 23.1C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	26.0		0.100	1.00	5	08/04/2022 15:09	WG1904634

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	0.0277	<u>J</u>	0.0217	0.100	1	08/03/2022 09:13	WG1904270
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.5			77.0-120		08/03/2022 09:13	WG1904270

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 19:13	WG1903900
C28-C36 Motor Oil Range	2.10	<u>J</u>	0.274	4.00	1	08/02/2022 19:13	WG1903900
(S) <i>o</i> -Terphenyl	50.5			18.0-148		08/02/2022 19:13	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	8.23		1	08/10/2022 19:23	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.08	T8	1	08/01/2022 13:00	WG1903736

Sample Narrative:

L1519613-05 WG1903736: 8.08 at 23.3C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	19.1		0.100	1.00	5	08/04/2022 15:12	WG1904634

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	142		2.17	10.0	100	07/29/2022 10:54	WG1902696
(S)							
a,a,a-Trifluorotoluene(FID)	92.5			77.0-120		07/29/2022 10:54	WG1902696

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	6.44		1.61	4.00	1	08/02/2022 18:59	WG1903900
C28-C36 Motor Oil Range	6.42		0.274	4.00	1	08/02/2022 18:59	WG1903900
(S) o-Terphenyl	43.1			18.0-148		08/02/2022 18:59	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	7.02		1	08/10/2022 19:26	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	6.66	<u>T8</u>	1	08/01/2022 16:00	WG1903946

Sample Narrative:

L1519613-06 WG1903946: 6.66 at 23.2C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	38.2		0.100	1.00	5	08/10/2022 11:24	WG1902672

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	44.2	<u>B</u>	4.34	20.0	200	07/29/2022 11:17	WG1902696
(S)							
<i>a,a,a</i> -Trifluorotoluene(FID)	95.9			77.0-120		07/29/2022 11:17	WG1902696

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	34.8		1.61	4.00	1	08/02/2022 20:05	WG1903900
C28-C36 Motor Oil Range	4.58		0.274	4.00	1	08/02/2022 20:05	WG1903900
(S) <i>o</i> -Terphenyl	51.9			18.0-148		08/02/2022 20:05	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	4.60		1	08/10/2022 18:18	WG1904084

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.82	<u>T8</u>	1	08/01/2022 16:00	WG1903946

Sample Narrative:

L1519613-07 WG1903946: 7.82 at 23.7C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	6.30		0.100	1.00	5	08/10/2022 11:27	WG1902672

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	0.0374	<u>J</u>	0.0217	0.100	1	08/03/2022 09:33	WG1904270
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.3			77.0-120		08/03/2022 09:33	WG1904270

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 17:53	WG1903900
C28-C36 Motor Oil Range	U		0.274	4.00	1	08/02/2022 17:53	WG1903900
(S) <i>o</i> -Terphenyl	58.0			18.0-148		08/02/2022 17:53	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	10.6		1	08/10/2022 15:03	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.94	T8	1	08/01/2022 16:00	WG1903946

Sample Narrative:

L1519613-08 WG1903946: 7.94 at 23.2C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	8.70		0.100	1.00	5	08/10/2022 11:30	WG1902672

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	0.0411	J	0.0217	0.100	1	08/03/2022 09:54	WG1904270
(S)							
a,a,a-Trifluorotoluene(FID)	93.4			77.0-120		08/03/2022 09:54	WG1904270

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 18:07	WG1903900
C28-C36 Motor Oil Range	2.50	J	0.274	4.00	1	08/02/2022 18:07	WG1903900
(S) o-Terphenyl	55.3			18.0-148		08/02/2022 18:07	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	14.3		1	08/10/2022 16:58	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	4.81	<u>T8</u>	1	08/02/2022 16:00	WG1904469

Sample Narrative:

L1519613-09 WG1904469: 4.81 at 23.8C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	49.7		0.100	1.00	5	08/10/2022 11:34	WG1902672

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 12:52	WG1902694
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	113			77.0-120		07/29/2022 12:52	WG1902694

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	2.39	<u>J</u>	1.61	4.00	1	08/02/2022 20:19	WG1903900
C28-C36 Motor Oil Range	24.1		0.274	4.00	1	08/02/2022 20:19	WG1903900
(S) <i>o</i> -Terphenyl	50.9			18.0-148		08/02/2022 20:19	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	23.5		1	08/10/2022 17:01	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.19	T8	1	08/03/2022 13:00	WG1904588

Sample Narrative:

L1519613-10 WG1904588: 7.19 at 24.2C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	6.59		0.100	1.00	5	08/10/2022 11:37	WG1902672

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 13:14	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		07/29/2022 13:14	WG1902694

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 18:20	WG1903900
C28-C36 Motor Oil Range	U		0.274	4.00	1	08/02/2022 18:20	WG1903900
(S) o-Terphenyl	56.0			18.0-148		08/02/2022 18:20	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	26.8		1	08/10/2022 17:04	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	5.03	<u>T8</u>	1	08/03/2022 12:00	WG1904878

Sample Narrative:

L1519613-11 WG1904878: 5.03 at 24.3C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	12.0		0.100	1.00	5	08/10/2022 10:42	WG1902672

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 13:35	WG1902694
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	114			77.0-120		07/29/2022 13:35	WG1902694

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 19:26	WG1903900
C28-C36 Motor Oil Range	2.93	<u>J</u>	0.274	4.00	1	08/02/2022 19:26	WG1903900
(S) <i>o</i> -Terphenyl	55.3			18.0-148		08/02/2022 19:26	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	34.7		1	08/10/2022 17:07	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	5.55	T8	1	08/03/2022 12:00	WG1904878

Sample Narrative:

L1519613-12 WG1904878: 5.55 at 24.2C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	4.65		0.100	1.00	5	08/10/2022 11:40	WG1902672

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 13:57	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		07/29/2022 13:57	WG1902694

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 18:46	WG1903900
C28-C36 Motor Oil Range	U		0.274	4.00	1	08/02/2022 18:46	WG1903900
(S) o-Terphenyl	50.5			18.0-148		08/02/2022 18:46	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	15.3		1	08/10/2022 17:09	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.14	T8	1	08/02/2022 11:00	WG1904218

Sample Narrative:

L1519613-13 WG1904218: 7.14 at 23.3C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	21.3		0.100	1.00	5	08/02/2022 11:27	WG1903349

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 14:18	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	111			77.0-120		07/29/2022 14:18	WG1902694

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 19:39	WG1903900
C28-C36 Motor Oil Range	3.51	J	0.274	4.00	1	08/02/2022 19:39	WG1903900
(S) o-Terphenyl	55.3			18.0-148		08/02/2022 19:39	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	19.6		1	08/10/2022 17:12	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	6.73	T8	1	08/02/2022 16:00	WG1904469

Sample Narrative:

L1519613-14 WG1904469: 6.73 at 23.9C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	11.1		0.100	1.00	5	08/02/2022 11:30	WG1903349

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/29/2022 14:40	WG1902694
(S) a,a,a-Trifluorotoluene(FID)	113			77.0-120		07/29/2022 14:40	WG1902694

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 18:33	WG1903900
C28-C36 Motor Oil Range	U		0.274	4.00	1	08/02/2022 18:33	WG1903900
(S) o-Terphenyl	56.4			18.0-148		08/02/2022 18:33	WG1903900

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	9.55		1	08/10/2022 17:15	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.05	<u>T8</u>	1	08/01/2022 16:00	WG1903946

Sample Narrative:

L1519613-15 WG1903946: 8.05 at 23.1C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	6.50		0.100	1.00	5	08/02/2022 11:34	WG1903349

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	0.0765	<u>J</u>	0.0217	0.100	1	08/01/2022 13:21	WG1903614
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	99.8			77.0-120		08/01/2022 13:21	WG1903614

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 16:57	WG1903903
C28-C36 Motor Oil Range	1.07	<u>J</u>	0.274	4.00	1	08/02/2022 16:57	WG1903903
(S) <i>o</i> -Terphenyl	52.8			18.0-148		08/02/2022 16:57	WG1903903

¹ Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	6.44		1	08/10/2022 17:18	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.98	T8	1	08/02/2022 11:00	WG1904218

Sample Narrative:

L1519613-16 WG1904218: 7.98 at 22.7C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	7.09		0.100	1.00	5	08/02/2022 11:37	WG1903349

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0938	J	0.0217	0.100	1	08/01/2022 13:44	WG1903614
(S) a,a,a-Trifluorotoluene(FID)	99.3			77.0-120		08/01/2022 13:44	WG1903614

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 17:09	WG1903903
C28-C36 Motor Oil Range	0.350	J	0.274	4.00	1	08/02/2022 17:09	WG1903903
(S) o-Terphenyl	49.8			18.0-148		08/02/2022 17:09	WG1903903

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	21.2		1	08/10/2022 17:26	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.94	<u>T8</u>	1	08/02/2022 16:00	WG1904469

Sample Narrative:

L1519613-17 WG1904469: 7.94 at 24.2C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	8.86		0.100	1.00	5	08/10/2022 11:44	WG1902672

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	332		2.17	10.0	100	07/29/2022 11:39	WG1902696
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	93.9			77.0-120		07/29/2022 11:39	WG1902696

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	2.17	<u>J</u>	1.61	4.00	1	08/02/2022 17:09	WG1903903
C28-C36 Motor Oil Range	1.81	<u>J</u>	0.274	4.00	1	08/02/2022 17:09	WG1903903
(S) <i>o</i> -Terphenyl	37.8			18.0-148		08/02/2022 17:09	WG1903903

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	5.78		1	08/10/2022 17:29	WG1904085

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.51	<u>T8</u>	1	08/02/2022 16:00	WG1904469

Sample Narrative:

L1519613-18 WG1904469: 7.51 at 23.9C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	5.25		0.100	1.00	5	08/10/2022 11:53	WG1902672

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	0.0384	<u>J</u>	0.0217	0.100	1	08/01/2022 14:07	WG1903614
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	101			77.0-120		08/01/2022 14:07	WG1903614

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	08/02/2022 17:22	WG1903903
C28-C36 Motor Oil Range	0.798	<u>J</u>	0.274	4.00	1	08/02/2022 17:22	WG1903903
(S) <i>o</i> -Terphenyl	36.9			18.0-148		08/02/2022 17:22	WG1903903

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1519613-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1519613-05 08/01/22 13:00 • (DUP) R3821296-2 08/01/22 13:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	8.08	8.04	1	0.496		1

Sample Narrative:

OS: 8.08 at 23.3C

DUP: 8.04 at 23.4C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1519700-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1519700-01 08/01/22 13:00 • (DUP) R3821296-3 08/01/22 13:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.61	7.62	1	0.131		1

Sample Narrative:

OS: 7.61 at 23.4C

DUP: 7.62 at 23.5C

Laboratory Control Sample (LCS)

(LCS) R3821296-1 08/01/22 13:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 23.9C

L1519603-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1519603-03 08/01/22 16:00 • (DUP) R3821459-2 08/01/22 16:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	pH	su		%		%
pH	8.18	8.19	1	0.122		1

Sample Narrative:

OS: 8.18 at 23.5C

DUP: 8.19 at 23.6C

L1519861-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1519861-03 08/01/22 16:00 • (DUP) R3821459-3 08/01/22 16:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.95	7.96	1	0.126		1

Sample Narrative:

OS: 7.95 at 23.1C

DUP: 7.96 at 23.1C

Laboratory Control Sample (LCS)

(LCS) R3821459-1 08/01/22 16:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 24.9C



L1519856-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1519856-02 08/02/22 11:00 • (DUP) R3821644-2 08/02/22 11:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.28	7.29	1	0.137		1

Sample Narrative:

OS: 7.28 at 22.6C

DUP: 7.29 at 22.7C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1520009-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1520009-01 08/02/22 11:00 • (DUP) R3821644-3 08/02/22 11:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.74	7.76	1	0.258		1

Sample Narrative:

OS: 7.74 at 22.9C

DUP: 7.76 at 23.2C

Laboratory Control Sample (LCS)

(LCS) R3821644-1 08/02/22 11:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 22C

L1519987-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1519987-03 08/02/22 16:00 • (DUP) R3821843-2 08/02/22 16:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.64	7.65	1	0.131		1

Sample Narrative:

OS: 7.64 at 23.6C
DUP: 7.65 at 23.6C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1520018-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1520018-02 08/02/22 16:00 • (DUP) R3821843-3 08/02/22 16:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	8.04	8.08	1	0.496		1

Sample Narrative:

OS: 8.04 at 23.2C
DUP: 8.08 at 23C

Laboratory Control Sample (LCS)

(LCS) R3821843-1 08/02/22 16:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 23.9C

L1519613-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1519613-10 08/03/22 13:00 • (DUP) R3822121-2 08/03/22 13:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.19	7.17	1	0.279		1

Sample Narrative:

OS: 7.19 at 24.2C

DUP: 7.17 at 24.3C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1519620-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1519620-05 08/03/22 13:00 • (DUP) R3822121-3 08/03/22 13:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	pH	su		%		%
pH	9.24	9.24	1	0.000		1

Sample Narrative:

OS: 9.24 at 24C

DUP: 9.24 at 24.1C

Laboratory Control Sample (LCS)

(LCS) R3822121-1 08/03/22 13:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.99	99.9	99.0-101	

Sample Narrative:

LCS: 9.99 at 23.8C

L1520009-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1520009-05 08/03/22 12:00 • (DUP) R3822204-2 08/03/22 12:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.77	7.74	1	0.387		1

Sample Narrative:

OS: 7.77 at 23.9C

DUP: 7.74 at 24C

L1520326-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1520326-05 08/03/22 12:00 • (DUP) R3822204-3 08/03/22 12:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	pH	su		%		%
pH	7.44	7.41	1	0.404		1

Sample Narrative:

OS: 7.44 at 23.9C

DUP: 7.41 at 24C

Laboratory Control Sample (LCS)

(LCS) R3822204-1 08/03/22 12:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.99	99.9	99.0-101	

Sample Narrative:

LCS: 9.99 at 23.5C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3824592-1 08/10/22 10:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3824592-3 08/10/22 10:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	85.6	85.6	80.0-120	

L1519613-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1519613-11 08/10/22 10:42 • (MS) R3824592-6 08/10/22 10:52 • (MSD) R3824592-7 08/10/22 10:55

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 %
Arsenic	100	12.0	90.3	104	78.3	92.0	5	75.0-125			14.1	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3821674-1 08/02/22 10:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3821674-2 08/02/22 10:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	95.0	95.0	80.0-120	

L1519025-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1519025-12 08/02/22 10:08 • (MS) R3821674-5 08/02/22 10:18 • (MSD) R3821674-6 08/02/22 10:21

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 %
Arsenic	100	0.913	90.2	94.1	89.3	93.2	5	75.0-125			4.19	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3822796-1 08/04/22 13:45

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3822796-2 08/04/22 13:48

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	99.4	99.4	80.0-120	

L1518594-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1518594-07 08/04/22 13:51 • (MS) R3822796-5 08/04/22 14:01 • (MSD) R3822796-6 08/04/22 14:04

	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	%	%		%			%	%
Arsenic	100	6.40	103	108	96.5	101	5	75.0-125			4.53	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3821594-2 07/29/22 06:36

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)	113			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3821594-1 07/29/22 05:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.76	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			104	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3820917-3 07/29/22 06:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.987	⬇	0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120

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

(LCS) R3820917-1 07/29/22 05:14 • (LCSD) R3820917-2 07/29/22 05:37

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	5.17	4.87	94.0	88.5	72.0-127			5.98	20
(S) a,a,a-Trifluorotoluene(FID)				99.0	99.3	77.0-120				

L1518914-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1518914-01 07/29/22 07:29 • (MS) R3820917-4 07/29/22 15:08 • (MSD) R3820917-5 07/29/22 15:30

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	142	1.86	112	137	77.6	95.2	25.8	10.0-151			20.1	28
(S) a,a,a-Trifluorotoluene(FID)					99.7	101		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) R3822946-2 08/01/22 11:04

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) R3822946-1 08/01/22 09:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.33	115	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) R3823165-2 08/02/22 20:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	99.3			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3823165-1 08/02/22 19:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.13	93.3	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			112	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) R3822313-2 08/03/22 08:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3822313-1 08/03/22 07:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.90	89.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			104	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3821899-1 08/02/22 17:01

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-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	66.8			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3821899-2 08/02/22 17:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	37.3	74.6	50.0-150	
(S) o-Terphenyl			97.7	18.0-148	

L1519607-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1519607-01 08/02/22 21:51 • (MS) R3821899-3 08/02/22 22:04 • (MSD) R3821899-4 08/02/22 22:17

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.4	U	U	U	0.000	0.000	50	50.0-150	J6	J6	0.000	20
(S) o-Terphenyl					0.000	0.000		18.0-148	J7	J7		

Sample Narrative:

OS: 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

Method Blank (MB)

(MB) R3822003-1 08/02/22 16:44

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-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	73.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3822003-2 08/02/22 16:57

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			82.6	18.0-148	

L1519744-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1519744-03 08/02/22 18:12 • (MS) R3822003-3 08/02/22 18:24 • (MSD) R3822003-4 08/02/22 18:37

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 %
C10-C28 Diesel Range	48.2	1440	1690	1280	519	0.000	25	50.0-150	V	J3 V	27.6	20
(S) o-Terphenyl					0.000	0.000		18.0-148	J7	J7		

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

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

MDL	Method Detection Limit.
RDL	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.
T8	Sample(s) received past/too close to holding time expiration.
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 Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

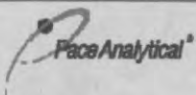
Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

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

* 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 Analytical.





CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Confluence Compliance Companies, LLC.		Billing Information: Info on file	
Address: Info on file		Email To: info on file	
Report To: Chris McKisson		Site Collection Info/Address:	
Copy To: Chris McKisson, remediation@confluence-cc.com		State: County/City: Time Zone Collected: CO / Moffat [] PT [X] MT [] CT [] ET	
Customer Project Name/Number: Voloshin Morton 1-8 Backgrounds		Compliance Monitoring? [] Yes [X] No	
Phone:	Site/Facility ID #: Voloshin Morton 1-8	DW PWS ID #:	
Email:	Purchase Order #:	DW Location Code:	
Collected By (print): Andrew Smith	Quote #:	Immediately Packed on Ice:	
Collected By (signature): <i>A. Sonita</i>	Turnaround Date Required: Standard Turnaround	[X] Yes [] No	
Sample Disposal: [] Dispose as appropriate [] Return [] Archive: [] Hold:	Rush: (Expedite Charges Apply) [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day	Field Filtered (if applicable): [] Yes [] No	
Analysis: _____			
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)			

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
220725-C1W-SB01@17.5'-20'	SL	G	7/25/2022	0910				2	G
220725-C1W-SB01@20'-22.5'	SL	G	7/25/2022	0915				2	G
220725-C1W-SB02@10'-15'	SL	G	7/25/2022	0945				2	G
220725-C1W-SB02@15'-17.5'	SL	G	7/25/2022	0950				2	G
220725-C1W-SB03@16'-19'	SL	G	7/25/2022	1020				2	G
220725-C1W-SB03@20'-22.5'	SL	G	7/25/2022	1025				2	G
220725-C1W-SB05@17.5'-20'	SL	G	7/25/2022	1120				2	G
220725-C1W-SB05@22'-25'	SL	G	7/25/2022	1135				2	G
220725-C1W-SB06@12.5'-15'	SL	G	7/25/2022	1220				2	G
220725-C1W-SB06@17.5'-20'	SL	G	7/25/2022	1225				2	G

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used: Wet Blue Dry None	SHORT HOLDS PRESENT (<72 hours): Y N N/A
	Packing Material Used:	Lab Tracking #:
	Radchem sample(s) screened (<500 cpm): Y N NA	Samples received via: FEDEX UPS Client Courier Pace Courier

Relinquished by/Company: (Signature) <i>A. Sonita</i>	Date/Time: 7/27/22 1330	Received by/Company: (Signature) <i>[Signature]</i>	Date/Time:
Relinquished by/Company: (Signature) <i>[Signature]</i>	Date/Time: 7/27/22 1500	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 7/28/22 900

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Container Preservative Type **		Lab Project Manager:	
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____			
Analyses		Lab Profile/Line:	
Table 915-1 VOCs TPH (ORO, GRO, DRO) Table 915-1 Metal's Table 915-1 PAHs pH, EC, SAR Boron (Hot Water Soluble Soil)	Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: Sample pH Acceptable Y N NA pH Strips: Sulfide Present Y N NA Lead Acetate Strips: _____		
	LAB USE ONLY: Lab Sample # / Comments: U1515613		
	LAB Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: _____ Cooler 1 Temp Upon Receipt: ____ oC Cooler 1 Therm Corr. Factor: ____ oC Cooler 1 Corrected Temp: ____ oC Comments:		
	Trip Blank Received: Y N NA HCL MeOH TSP Other		
	Non Conformance(s): Page: 1 YES / NO of: 2		

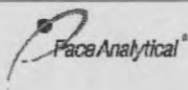
Non Conformance(s):	Page: <u>2</u>
YES / NO	of: <u>2</u>

21519613

<u>Tracking Numbers</u>		<u>Temperature</u>
575580849576		Dea 7 0.3 to 0.3
9587		Dea 7 0.3 to 0.3

=====

CHAIN-OF-CUSTODY Analytical Request Document <small>Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields</small>										LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here											
Company: Confluence Compliance Companies, LLC.					Billing Information:					ALL BOLD OUTLINED AREAS are for LAB USE ONLY <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Container Preservative Type ** Lab Project Manager: </div> <div style="font-size: small;"> ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____ </div> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> Analyses <div style="display: flex; justify-content: space-between; font-size: x-small;"> <div>Table 915-1 VOCs</div> <div>TPH (ORO, GRO, DRO)</div> <div>Table 915-1 Metal's</div> <div>Table 915-1 PAHs</div> <div>pH, SAR, Arsenic</div> <div>Boron (Hot Water Soluble Soil)</div> </div> </div> <div style="width: 35%;"> Lab Profile/Line: Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____ LAB USE ONLY: Lab Sample # / Comments: <div style="font-size: 2em; font-family: cursive;">L1519613</div> </div> </div> </div>											
Address: Info on file					Info on file																
Report To: Chris McKisson					Email To: info on file																
Copy To: Chris McKisson, remediation@confluence-cc.com					Site Collection Info/Address:																
Customer Project Name/Number: Pinyon Ridge C-1W					State: County/City:		Time Zone Collected:			<div style="display: flex; justify-content: space-between; font-size: x-small;"> <div>CO / Rio Blanco</div> <div>[] PT [X] MT [] CT [] ET</div> </div>											
Phone:		Site/Facility ID #: C-1W			Compliance Monitoring?			Container Type: Plastic (P) or Glass (G)													
Email:					[] Yes [X] No																
Collected By (print): Andrew Smith		Purchase Order #:			DW PWS ID #:																
Collected By (signature): <i>A. Sonita</i>		Quote #:			DW Location Code:																
Sample Disposal:		Turnaround Date Required: Standard Turnaround			Immediately Packed on Ice:			Container Type: Plastic (P) or Glass (G)													
[] Dispose as appropriate		Rush: (Expedite Charges Apply)			Field Filtered (if applicable):																
[] Return		[] Same Day [] Next Day			[] Yes [] No																
[] Archive:		[] 2 Day [] 3 Day																			
[] Hold:		[] 4 Day [] 5 Day			Analysis: _____			Container Type: Plastic (P) or Glass (G)													
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)																					
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl				# of Ctns	Container Type: Plastic (P) or Glass (G)									
			Date	Time	Date	Time															
220725-C1W-SB01@17.5'-20'	SL	G	7/25/2022	0910				2													
220725-C1W-SB01@20'-22.5'	SL	G	7/25/2022	0915				2													
220725-C1W-SB02@10'-15'	SL	G	7/25/2022	0945				2													
220725-C1W-SB02@15'-17.5'	SL	G	7/25/2022	0950				2													
220725-C1W-SB03@16'-19'	SL	G	7/25/2022	1020				2													
220725-C1W-SB03@20'-22.5'	SL	G	7/25/2022	1025				2													
220725-C1W-SB05@17.5'-20'	SL	G	7/25/2022	1120				2													
220725-C1W-SB05@22'-25'	SL	G	7/25/2022	1135				2													
220725-C1W-SB06@12.5'-15'	SL	G	7/25/2022	1220				2													
220725-C1W-SB06@17.5'-20'	SL	G	7/25/2022	1225				2													
Customer Remarks / Special Conditions / Possible Hazards:					Type of Ice Used: Wet Blue Dry None					SHORT HOLDS PRESENT (<72 hours): Y N N/A					LAB Sample Temperature Info: Temp Blank Received: Y N NA Therm ID#: _____ Cooler 1 Temp Upon Receipt: _____ °C Cooler 1 Therm Corr. Factor: _____ °C Cooler 1 Corrected Temp: _____ °C Comments: _____						
					Packing Material Used:					Lab Tracking #:											
					Radchem sample(s) screened (<500 cpm): Y N NA					Samples received via: FEDEX UPS Client Courier Pace Courier											
Relinquished by/Company: <i>A. Sonita</i>			Date/Time:		Received by/Company: (Signature)				Date/Time:		MTJL LAB USE ONLY Table #: Acctnum: Template: Prelogin: PM: PB:					Trip Blank Received: Y N NA HCL MeOH TSP Other					
Relinquished by/Company: (Signature)			Date/Time:		Received by/Company: (Signature)				Date/Time:												
Relinquished by/Company: (Signature)			Date/Time:		Received by/Company: (Signature)				Date/Time:												
											Non Conformance(s): Page: _____ YES / NO of: _____										



CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Confluence Compliance Companies, LLC.		Billing Information:	
Address: Info on file		Info on file	
Report To: Chris McKisson		Email To: info on file	
Copy To: Chris McKisson, remediation@confluence-cc.com		Site Collection Info/Address:	
Customer Project Name/Number: Pinyon Ridge C-1W		State: County/City: Time Zone Collected:	
		CO / Rio Blanco [] PT [X] MT [] CT [] ET	
Phone:	Site/Facility ID #: C-1W	Compliance Monitoring?	
Email:		[] Yes [X] No	
Collected By (print): Andrew Smith	Purchase Order #:	DW PWS ID #:	
	Quote #:	DW Location Code:	
Collected By (signature): <i>A. Somita</i>	Turnaround Date Required: Standard	Immediately Packed on Ice:	
	Turnaround	[X] Yes [] No	
Sample Disposal:	Rush: (Expedite Charges Apply)	Field Filtered (if applicable):	
[] Dispose as appropriate	[] Same Day [] Next Day	[] Yes [] No	
[] Return	[] 2 Day [] 3 Day		
[] Archive: _____	[] 4 Day [] 5 Day	Analysis: _____	
[] Hold: _____			

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)
			Date	Time	Date	Time			
220725-C1W-SB01@17.5'-20'	SL	G	7/25/2022	0910				2	G
220725-C1W-SB01@20'-22.5'	SL	G	7/25/2022	0915				2	G
220725-C1W-SB02@10'-15'	SL	G	7/25/2022	0945				2	G
220725-C1W-SB02@15'-17.5'	SL	G	7/25/2022	0950				2	G
220725-C1W-SB03@16'-19'	SL	G	7/25/2022	1020				2	G
220725-C1W-SB03@20'-22.5'	SL	G	7/25/2022	1025				2	G
220725-C1W-SB05@17.5'-20'	SL	G	7/25/2022	1120				2	G
220725-C1W-SB05@22'-25'	SL	G	7/25/2022	1135				2	G
220725-C1W-SB06@12.5'-15'	SL	G	7/25/2022	1220				2	G
220725-C1W-SB06@17.5'-20'	SL	G	7/25/2022	1225				2	G

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Container Preservative Type **										Lab Project Manager:																													
** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____																																							
Analyses										Lab Profile/Line:																													
<table><tr><td>Table 915-1 VOCs</td><td>TPH (ORO, GRO, DRO)</td><td>Table 915-1 Metal's</td><td>Table 915-1 PAHs</td><td>pH, SAR, Arsenic</td><td>Boron (Hot Water Soluble Soil)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>										Table 915-1 VOCs	TPH (ORO, GRO, DRO)	Table 915-1 Metal's	Table 915-1 PAHs	pH, SAR, Arsenic	Boron (Hot Water Soluble Soil)															Lab Sample Receipt Checklist:									
										Table 915-1 VOCs	TPH (ORO, GRO, DRO)	Table 915-1 Metal's	Table 915-1 PAHs	pH, SAR, Arsenic	Boron (Hot Water Soluble Soil)																								
Custody Seals Present/Intact Y N NA																																							
Custody Signatures Present Y N NA																																							
Collector Signature Present Y N NA																																							
Bottles Intact Y N NA																																							
Correct Bottles Y N NA																																							
Sufficient Volume Y N NA																																							
Samples Received on Ice Y N NA																																							
VOA - Headspace Acceptable Y N NA																																							
USDA Regulated Soils Y N NA																																							
Samples in Holding Time Y N NA																																							
Residual Chlorine Present Y N NA																																							
Cl Strips: _____																																							
Sample pH Acceptable Y N NA																																							
pH Strips: _____																																							
Sulfide Present Y N NA																																							
Lead Acetate Strips: _____																																							
LAB USE ONLY:																																							
Lab Sample # / Comments:																																							
L1519613																																							
Customer Remarks / Special Conditions / Possible Hazards:										LAB Sample Temperature Info:																													
Type of Ice Used: Wet Blue Dry None										Temp Blank Received: Y N NA																													
Packing Material Used:										Therm ID#:																													
Radchem sample(s) screened (<500 cpm): Y N NA										Cooler 1 Temp Upon Receipt: ____oC																													
										Cooler 1 Therm Corr. Factor: ____oC																													
										Cooler 1 Corrected Temp: ____oC																													
										Comments:																													
Relinquished by/Company: (Signature) <i>A. Somita</i>										Date/Time:																													
Received by/Company: (Signature)										Date/Time:																													
Relinquished by/Company: (Signature)										Date/Time:																													
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										MTJL LAB USE ONLY																													
										Table #:																													
										Acctnum:																													
										Template:																													
										Prelogin:																													
										PM:																													
										PB:																													
										Trip Blank Received: Y N NA																													
										HCL MeOH TSP Other																													
										Non Conformance(s):																													
										YES / NO																													
										Page: _____																													
										of: _____																													

CHAIN-OF-CUSTODY Analytical Request Document <small>Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields</small>										LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here														
Company: Confluence Compliance Companies, LLC.					Billing Information: Info on file					ALL BOLD OUTLINED AREAS are for LAB USE ONLY <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Container Preservative Type ** Lab Project Manager: </div> <div style="font-size: 0.8em;"> ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____ </div>														
Address: Info on file					Report To: Chris McKisson															Email To: info on file				
Copy To: Chris McKisson, remediation@confluence-cc.com					Site Collection Info/Address:																			
Customer Project Name/Number: Pinyon Ridge C-1W					State: County/City: Time Zone Collected:																			
Phone:		Site/Facility ID #: Pinyon Ridge C-1W			Compliance Monitoring?			Container Type: Plastic (P) or Glass (G)			Analyses <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.7em;"> Table 915-1 VOCs TPH (ORO, GRO, DRO) Table 915-1 Metals Table 915-1 PAHs pH, SAR, Arsenic Boron (Hot Water Soluble Soil) </div> <div style="border: 1px solid black; padding: 5px; width: 100%;"> Lab Profile/Line: Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____ LAB USE ONLY: Lab Sample # / Comments: <div style="font-size: 1.5em; font-family: cursive;">C1519613</div> </div> </div>													
Email:		Purchase Order #:			[] Yes [X] No																			
Collected By (print): Andrew Smith		Quote #:			DW PWS ID #:																			
Collected By (signature): <i>A. Smith</i>		Turnaround Date Required: Standard Turnaround			DW Location Code:																			
Sample Disposal:		Rush: (Expedite Charges Apply)			Immediately Packed on Ice:																			
[] Dispose as appropriate		[] Same Day [] Next Day			[X] Yes [] No																			
[] Return		[] 2 Day [] 3 Day			Field Filtered (if applicable):																			
[] Archive: _____		[] 4 Day [] 5 Day			[] Yes [] No																			
[] Hold: _____					Analysis: _____																			
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)																								
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)															
			Date	Time	Date	Time																		
220725-C1W-SB07@12.5'-15'	SL	G	7/25/2022	1255				2	G		X				X									
220725-C1W-SB07@15'-17.5'	SL	G	7/25/2022	1300				2	G		X				X									
220725-C1W-SB08@8'-10'	SL	G	7/25/2022	1315				2	G		X				X									
220725-C1W-SB08@12'-14.5'	SL	G	7/25/2022	1320				2	G		X				X									
220725-C1W-SB09@12.5'-15'	SL	G	7/25/2022	1345				2	G		X				X									
220725-C1W-SB09@17'-19.5'	SL	G	7/25/2022	1350				2	G		X				X									
220725-C1W-SB10@12.5'-15'	SL	G	7/25/2022	1410				2	G		X				X									
220725-C1W-SB10@17.5'-19.5'	SL	G	7/25/2022	1415				2	G		X				X									
Customer Remarks / Special Conditions / Possible Hazards:										Type of Ice Used: Wet Blue Dry None Packing Material Used: Radchem sample(s) screened (<500 cpm): Y N NA														
Relinquished by/Company: (Signature) <i>A. Smith</i>										SHORT HOLDS PRESENT (<72 hours): Y N N/A														
										Lab Tracking #:														
										Samples received via: FEDEX UPS Client Courier Pace Courier														
Relinquished by/Company: (Signature)										MTJL LAB USE ONLY Table #: Acctnum: Template: Prelogin:														
Relinquished by/Company: (Signature)										Trip Blank Received: Y N NA HCL MeOH TSP Other														
Relinquished by/Company: (Signature)										Non Conformance(s): Page: _____ YES / NO of: _____														

CONCOMGJCO L1519613 edits

R3/R4/RX/EX

L1519613-01 through -18: Please delete all analyses **except** GRO, DRONM, PH, SAR, ASG.

Time estimate: oh

Time spent: oh

Members



Chris Ward



Kelly Mercer

Confluence Compliance Companies - CO

Sample Delivery Group: L1541684
Samples Received: 09/30/2022
Project Number: 315979
Description: AEC005-Pinyon Ridge Fed C-1W (315979)
Site: PIYON RIDGE FED C-1W/315979
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

Entire Report Reviewed By:



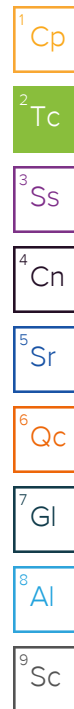
Chris Ward
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

20220928-PR_FED_C-1W-PHNE@4' L1541684-01 Solid

Collected by
Alex Slorby

Collected date/time
09/28/22 11:30

Received date/time
09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1942702	1	10/17/22 07:39	10/17/22 07:39	CCE	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1935993	1	10/03/22 09:00	10/03/22 11:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:41	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1939111	500	10/04/22 17:17	10/07/22 23:52	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1938522	1	10/06/22 16:32	10/07/22 10:15	JAS	Mt. Juliet, TN

20220928-PR_FED_C-1W-PHNE@12' L1541684-02 Solid

Collected by
Alex Slorby

Collected date/time
09/28/22 13:00

Received date/time
09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1942702	1	10/17/22 07:42	10/17/22 07:42	CCE	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1935993	1	10/03/22 09:00	10/03/22 11:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937119	5	10/12/22 18:20	10/14/22 10:25	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1939111	500	10/04/22 17:17	10/08/22 00:13	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1938522	1	10/06/22 16:32	10/07/22 10:28	JAS	Mt. Juliet, TN

20220928-PR_FED_C-1W-PHNW@4' L1541684-03 Solid

Collected by
Alex Slorby

Collected date/time
09/28/22 13:35

Received date/time
09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1942702	1	10/17/22 07:45	10/17/22 07:45	CCE	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1935993	1	10/03/22 09:00	10/03/22 11:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937119	5	10/12/22 18:20	10/14/22 10:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1938210	1	10/04/22 17:17	10/07/22 18:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1938522	1	10/06/22 16:32	10/07/22 10:41	JAS	Mt. Juliet, TN

20220928-PR_FED_C-1W-PHS@1.5' L1541684-04 Solid

Collected by
Alex Slorby

Collected date/time
09/28/22 13:50

Received date/time
09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1942702	1	10/17/22 07:53	10/17/22 07:53	CCE	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1935993	1	10/03/22 09:00	10/03/22 11:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937119	5	10/12/22 18:20	10/14/22 10:09	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1937292	1	10/04/22 17:17	10/05/22 15:26	AV	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1938522	1	10/06/22 16:32	10/07/22 11:08	JAS	Mt. Juliet, TN

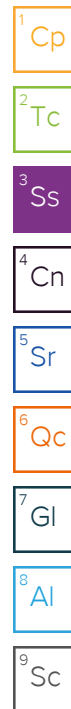
20220928-PR_FED_C-1W-PHS@4' L1541684-05 Solid

Collected by
Alex Slorby

Collected date/time
09/28/22 14:10

Received date/time
09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1942702	1	10/17/22 07:56	10/17/22 07:56	CCE	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1935993	1	10/03/22 09:00	10/03/22 11:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937119	5	10/12/22 18:20	10/14/22 10:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1938210	1	10/04/22 17:17	10/07/22 18:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG1938522	1	10/06/22 16:32	10/07/22 10:54	JAS	Mt. Juliet, TN

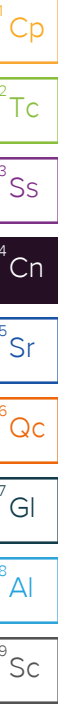


CASE NARRATIVE

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 Ward
Project Manager



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	20.6		1	10/17/2022 07:39	WG1942702

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.27	T8	1	10/03/2022 11:00	WG1935993

Sample Narrative:

L1541684-01 WG1935993: 8.27 at 20.2C

Metals (ICPMS) by Method 6020

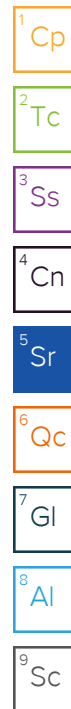
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	6.26		0.100	1.00	5	10/06/2022 14:41	WG1937115

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1420		10.9	50.0	500	10/07/2022 23:52	WG1939111
(S) a,a,a-Trifluorotoluene(FID)	84.9			77.0-120		10/07/2022 23:52	WG1939111

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	88.3		1.61	4.00	1	10/07/2022 10:15	WG1938522
C28-C36 Motor Oil Range	26.6		0.274	4.00	1	10/07/2022 10:15	WG1938522
(S) o-Terphenyl	61.6			18.0-148		10/07/2022 10:15	WG1938522



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	25.7		1	10/17/2022 07:42	WG1942702

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.69	T8	1	10/03/2022 11:00	WG1935993

Sample Narrative:

L1541684-02 WG1935993: 8.69 at 20.3C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	5.67		0.100	1.00	5	10/14/2022 10:25	WG1937119

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	1050		10.9	50.0	500	10/08/2022 00:13	WG1939111
(S) a,a,a-Trifluorotoluene(FID)	89.1			77.0-120		10/08/2022 00:13	WG1939111

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	36.7		1.61	4.00	1	10/07/2022 10:28	WG1938522
C28-C36 Motor Oil Range	13.9		0.274	4.00	1	10/07/2022 10:28	WG1938522
(S) o-Terphenyl	61.5			18.0-148		10/07/2022 10:28	WG1938522

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	3.74		1	10/17/2022 07:45	WG1942702

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.24	T8	1	10/03/2022 11:00	WG1935993

Sample Narrative:

L1541684-03 WG1935993: 8.24 at 20.3C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	6.07		0.100	1.00	5	10/14/2022 10:28	WG1937119

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	0.0559	B J	0.0217	0.100	1	10/07/2022 18:31	WG1938210
(S)	98.3			77.0-120		10/07/2022 18:31	WG1938210
a,a,a-Trifluorotoluene(FID)							

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	10/07/2022 10:41	WG1938522
C28-C36 Motor Oil Range	1.71	J	0.274	4.00	1	10/07/2022 10:41	WG1938522
(S) o-Terphenyl	62.9			18.0-148		10/07/2022 10:41	WG1938522

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	70.2		1	10/17/2022 07:53	WG1942702

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.35	<u>T8</u>	1	10/03/2022 11:00	WG1935993

Sample Narrative:

L1541684-04 WG1935993: 8.35 at 20.3C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	6.88	<u>J6</u>	0.100	1.00	5	10/14/2022 10:09	WG1937119

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	6.59		0.0217	0.100	1	10/05/2022 15:26	WG1937292
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	96.4			62.0-128		10/05/2022 15:26	WG1937292

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	11.7		1.61	4.00	1	10/07/2022 11:08	WG1938522
C28-C36 Motor Oil Range	14.1		0.274	4.00	1	10/07/2022 11:08	WG1938522
(S) <i>o</i> -Terphenyl	82.9			18.0-148		10/07/2022 11:08	WG1938522

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	18.4		1	10/17/2022 07:56	WG1942702

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.61	T8	1	10/03/2022 11:00	WG1935993

Sample Narrative:

L1541684-05 WG1935993: 8.61 at 20.4C

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
Arsenic	6.21		0.100	1.00	5	10/14/2022 10:32	WG1937119

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
TPH (GC/FID) Low Fraction	0.0828	B J	0.0217	0.100	1	10/07/2022 18:54	WG1938210
(S)	99.1			77.0-120		10/07/2022 18:54	WG1938210
a,a,a-Trifluorotoluene(FID)							

Semi-Volatile Organic Compounds (GC) by Method 8015M

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00	1	10/07/2022 10:54	WG1938522
C28-C36 Motor Oil Range	0.310	J	0.274	4.00	1	10/07/2022 10:54	WG1938522
(S) o-Terphenyl	68.8			18.0-148		10/07/2022 10:54	WG1938522

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1541669-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1541669-02 10/03/22 11:00 • (DUP) R3843981-2 10/03/22 11:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	6.84	6.88	1	0.583		1

Sample Narrative:

OS: 6.84 at 21.3C

DUP: 6.88 at 21.3C

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1541684-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1541684-02 10/03/22 11:00 • (DUP) R3843981-3 10/03/22 11:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	8.69	8.68	1	0.115		1

Sample Narrative:

OS: 8.69 at 20.3C

DUP: 8.68 at 20.4C

Laboratory Control Sample (LCS)

(LCS) R3843981-1 10/03/22 11:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 20.7C

Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.4	96.4	80.0-120	

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

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 %
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3848462-1 10/14/22 10:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3848462-2 10/14/22 10:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	86.9	86.9	80.0-120	

L1541684-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541684-04 10/14/22 10:09 • (MS) R3848462-5 10/14/22 10:18 • (MSD) R3848462-6 10/14/22 10:22

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 %
Arsenic	100	6.88	83.4	79.1	76.6	72.2	5	75.0-125		J6	5.34	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3845249-3 10/05/22 11:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0219	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3845249-2 10/05/22 09:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.67	103	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			110	77.0-120	

L1541563-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541563-07 10/05/22 12:03 • (MS) R3845249-6 10/05/22 16:57 • (MSD) R3845249-7 10/05/22 17:19

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 %
TPH (GC/FID) Low Fraction	5.50	6.13	6.69	6.81	10.2	12.4	1	10.0-151			1.78	28
(S) a,a,a-Trifluorotoluene(FID)					75.9	67.6		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3846280-2 10/07/22 17:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0305	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3846280-1 10/07/22 16:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.90	89.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			102	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) R3847042-2 10/07/22 17:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.543	2.50
(S) a,a,a-Trifluorotoluene(FID)	94.2			77.0-120

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

(LCS) R3847042-1 10/07/22 16:24 • (LCSD) R3847042-3 10/07/22 18:08

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	5.14	5.76	93.5	105	72.0-127			11.4	20
(S) a,a,a-Trifluorotoluene(FID)				107	110	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) R3845657-1 10/07/22 02:01

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-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	81.7			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3845657-2 10/07/22 02:14

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	26.9	53.8	50.0-150	
(S) o-Terphenyl			67.1	18.0-148	

L1541687-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541687-01 10/07/22 11:33 • (MS) R3845657-3 10/07/22 11:46 • (MSD) R3845657-4 10/07/22 12:00

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 %
C10-C28 Diesel Range	50.0	U	37.7	35.1	75.4	70.2	1	50.0-150			7.14	20
(S) o-Terphenyl					95.0	90.5		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

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.

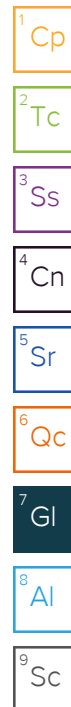
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	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.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

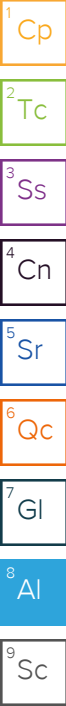
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

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

* 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 Analytical.



Non Conformance(s): YES / NO	Page: _____ of: _____
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Confluence Compliance Companies - CO

Sample Delivery Group: L1541680
Samples Received: 09/30/2022
Project Number: 315979
Description: AEC005-Pinyon Ridge Fed C-1W (315979)
Site: PINYON RIDGE FED C-1W/315979
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

Entire Report Reviewed By:



Chris Ward
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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Al: Accreditations & Locations	9	⁸ Al
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SAMPLE SUMMARY

20220928-PR_FED_C-1W-BG (1455) @ 1' L1541680-01 Solid

Collected by
Alex Slorby

Collected date/time
09/28/22 14:55

Received date/time
09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:13	10/12/22 16:13	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1938132	1	10/06/22 16:00	10/06/22 18:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:24	JPD	Mt. Juliet, TN

¹Cp

 ${}^2\text{Tc}$ 3S_1
$$^4\text{Cn}$$
 ${}^5\text{Sr}$ ${}^6\text{Qc}$ ${}^7\text{Gf}$ ${}^8\text{Al}$ ${}^9\text{Sc}$

CASE NARRATIVE

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 Ward
Project Manager



Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	4.26		1	10/12/2022 16:13	WG1940413

¹Cp

²Tc

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.75	T8	1	10/06/2022 18:00	WG1938132

³Ss

⁴Cn

Sample Narrative:

L1541680-01 WG1938132: 8.75 at 18.3C

⁵Sr

Metals (ICPMS) by Method 6020

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg	mg/kg			
Arsenic	8.05		0.100	1.00	5	10/06/2022 14:24	WG1937115

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1538852-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1538852-41 10/06/22 18:00 • (DUP) R3845601-2 10/06/22 18:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	8.04	8.04	1	0.000		1

Sample Narrative:

OS: 8.04 at 18.7C

DUP: 8.04 at 18.7C

L1541678-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541678-01 10/06/22 18:00 • (DUP) R3845601-3 10/06/22 18:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	8.37	8.36	1	0.120		1

Sample Narrative:

OS: 8.37 at 18.4C

DUP: 8.36 at 18.5C

Laboratory Control Sample (LCS)

(LCS) R3845601-1 10/06/22 18:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 18.7C



Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.4	96.4	80.0-120	

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

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 %
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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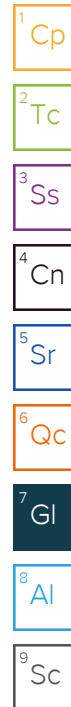
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
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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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

T8	Sample(s) received past/too close to holding time expiration.
----	---



ACCREDITATIONS & LOCATIONS

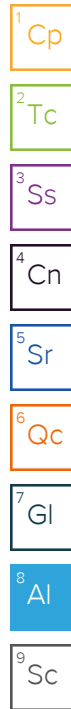
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

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

* 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 Analytical.



CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Confluence Compliance Companies		Billing Information:	
Address: Info on file		Info on file	
Report To: Chris McKisson		Email To: Info on file	
Copy To: Chris McKisson, remediation@confluence-cc.com		Site Collection Info/Address: NESE 21 3N97W 40.212620/-108.276390	
Customer Project Name/Number: AEC005 - Pinyon Ridge Fed C-1W (315979)		State: County/City: Time Zone Collected: CO / Rio Blanco [] PT [X] MT [] CT [] ET	
Phone:	Site/Facility ID #:	Compliance Monitoring?	
Email:	Pinyon Ridge Fed C-1W / 315979	[] Yes [X] No	
Collected By (print): Alex Slorby	Purchase Order #:	DW PWS ID #:	
	Quote #:	DW Location Code:	
Collected By (signature): 	Turnaround Date Required: Standard	Immediately Packed on Ice: [X] Yes [] No	
Sample Disposal:	Rush: (Expedite Charges Apply)	Field Filtered (if applicable):	
[X] Dispose as appropriate	[] Same Day [] Next Day	[] Yes [] No	
[] Return	[] 2 Day [] 3 Day		
[] Archive: _____	[] 4 Day [] 5 Day	Analysis: _____	
[] Hold:			

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

[illegible]

Customer Remarks / Special Conditions / Possible Hazards:		Type of Ice Used: Wet Blue Dry None			
		Packing Material Used:			
		Radchem sample(s) screened (<500 cpm): Y N NA			
Relinquished by/Company: (Signature)	<i>Alex Stoly</i>	Date/Time:	9/29/22 1400	Received by/Company: (Signature)	<i>[Signature]</i>
Relinquished by/Company: (Signature)	<i>[Signature]</i>	Date/Time:	9/29/22/1600	Received by/Company: (Signature)	
Relinquished by/Company: (Signature)		Date/Time:		Received by/Company: (Signature)	<i>D. Ramseel</i>

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or
MTJL Log-in Number Here

D080

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

Container Preservative Type **										Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

[illegible]

Customer Remarks / Special Conditions / Possible Hazards:		Type of Ice Used: Wet Blue Dry None				SHORT HOLDS PRESENT (<72 hours): Y N N/A				LAB Sample Temperature Info:			
		Packing Material Used:				Lab Tracking #:				Temp Blank Received: Y N NA Therm ID#: <u>NS AB</u>			
		Radchem sample(s) screened (<500 cpm): Y N NA				Samples received via: FEDEX UPS Client Courier Pace Courier				Cooler 1 Temp Upon Receipt: <u>7</u> °C Cooler 1 Therm Corr. Factor: <u>±0</u> °C Cooler 1 Corrected Temp: <u>7</u> °C Comments:			
Relinquished by/Company: (Signature) <u>Alex Stoly</u>		Date/Time: <u>9/29/22 1400</u>		Received by/Company: (Signature) <u>[Signature]</u>		Date/Time:		MTJL LAB USE ONLY		Trip Blank Received: Y N NA HCL MeOH TSP Other			
Relinquished by/Company: (Signature) <u>[Signature]</u>		Date/Time: <u>9/29/22 1600</u>		Received by/Company: (Signature)		Date/Time:		Table #:					
Relinquished by/Company: (Signature)		Date/Time:		Received by/Company: (Signature) <u>D. Ramseel</u>		Date/Time: <u>1000 09-30-22</u>		Acctnum: Template: Prelogin: PM: PB:					
										Non Conformance(s): Page: _____ YES / NO of: _____			

Confluence Compliance Companies - CO

Sample Delivery Group: L1541681
Samples Received: 09/30/2022
Project Number: 315979
Description: AEC005-Pinyon Ridge Fed C-1W (315979)
Site: PINYON RIDGE FED C-1W/315979
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

Entire Report Reviewed By:



Chris Ward
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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Cp: Cover Page	1	¹ Cp
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Metals (ICPMS) by Method 6020	7	⁶ Qc
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Al: Accreditations & Locations	9	⁷ Gl
Sc: Sample Chain of Custody	10	⁸ Al
		⁹ Sc

SAMPLE SUMMARY

20220928-PR_FED_C-1W-BG (1450) @ 1' L1541681-01 Solid

Collected by
Alex Slorby

Collected date/time
09/28/22 14:50

Received date/time
09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:16	10/12/22 16:16	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1938132	1	10/06/22 16:00	10/06/22 18:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:28	JPD	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

Confluence Compliance Companies - CO

PROJECT:

315979

SDG:

L1541681

DATE/TIME:

10/13/22 12:45

PAGE:

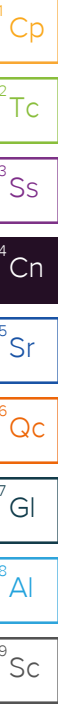
3 of 10

CASE NARRATIVE

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 Ward
Project Manager



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.108		1	10/12/2022 16:16	WG1940413

1
Cp

2
Tc

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.33	T8	1	10/06/2022 18:00	WG1938132

3
Ss

4
Cn

Sample Narrative:

L1541681-01 WG1938132: 8.33 at 18.2C

5
Sr

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	3.10		0.100	1.00	5	10/06/2022 14:28	WG1937115

6
Qc

7
Gl

8
Al

9
Sc

L1538852-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1538852-41 10/06/22 18:00 • (DUP) R3845601-2 10/06/22 18:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.04	8.04	1	0.000		1

Sample Narrative:

OS: 8.04 at 18.7C

DUP: 8.04 at 18.7C

L1541678-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541678-01 10/06/22 18:00 • (DUP) R3845601-3 10/06/22 18:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.37	8.36	1	0.120		1

Sample Narrative:

OS: 8.37 at 18.4C

DUP: 8.36 at 18.5C

Laboratory Control Sample (LCS)

(LCS) R3845601-1 10/06/22 18:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 18.7C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.100	1.00

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	96.4	96.4	80.0-120	

⁴Cn

⁵Sr

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

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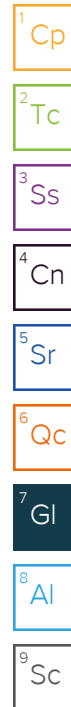
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

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Qualifier Description

T8	Sample(s) received past/too close to holding time expiration.
----	---



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

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

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Arsenic

Confluence Compliance Companies - CO

Sample Delivery Group: L1541678
Samples Received: 09/30/2022
Project Number: 315979
Description: AEC005-Pinyon Ridge Fed C-1W (315979)
Site: PINYON RIDGE FED C-1W/315979
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

Entire Report Reviewed By:



Chris Ward
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

20220928-PR_FED_C-1W-BG (1520) @ 1' L1541678-01 Solid

Collected by
Alex Slorby

Collected date/time
09/28/22 15:20

Received date/time
09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:02	10/12/22 16:02	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1938132	1	10/06/22 16:00	10/06/22 18:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:18	JPD	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

Confluence Compliance Companies - CO

PROJECT:

315979

SDG:

L1541678

DATE/TIME:

10/13/22 12:46

PAGE:

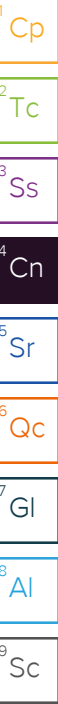
3 of 10

CASE NARRATIVE

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 Ward
Project Manager



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.0772		1	10/12/2022 16:02	WG1940413

1
Cp

2
Tc

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.37	T8	1	10/06/2022 18:00	WG1938132

3
Ss

4
Cn

Sample Narrative:

L1541678-01 WG1938132: 8.37 at 18.4C

5
Sr

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	5.32		0.100	1.00	5	10/06/2022 14:18	WG1937115

6
Qc

7
Gl

8
Al

9
Sc

L1538852-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1538852-41 10/06/22 18:00 • (DUP) R3845601-2 10/06/22 18:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.04	8.04	1	0.000		1

Sample Narrative:

OS: 8.04 at 18.7C

DUP: 8.04 at 18.7C

L1541678-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541678-01 10/06/22 18:00 • (DUP) R3845601-3 10/06/22 18:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.37	8.36	1	0.120		1

Sample Narrative:

OS: 8.37 at 18.4C

DUP: 8.36 at 18.5C

Laboratory Control Sample (LCS)

(LCS) R3845601-1 10/06/22 18:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 18.7C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	96.4	96.4	80.0-120	

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

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 %
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

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.

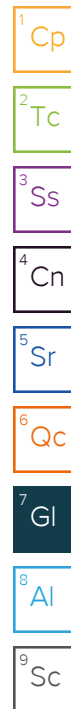
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
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

T8	Sample(s) received past/too close to holding time expiration.
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ACCREDITATIONS & LOCATIONS

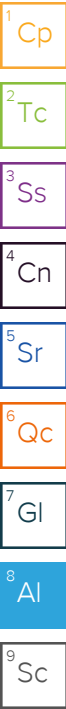
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

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

* 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 Analytical.



Non Conformance(s): YES / NO	Page: _____ of: _____
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Confluence Compliance Companies - CO

Sample Delivery Group: L1541679
Samples Received: 09/30/2022
Project Number: 315979
Description: AEC005-Pinyon Ridge Fed C-1W (315979)
Site: PINYON RIDGE FED C-1W/315979
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

Entire Report Reviewed By:



Chris Ward
Project Manager

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Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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Tc: Table of Contents	2	
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Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
20220928-PR_FED_C-1W-BG (1515) @ 1' L1541679-01	5	⁴ Cn
Qc: Quality Control Summary	6	
Wet Chemistry by Method 9045D	6	⁵ Sr
Metals (ICPMS) by Method 6020	7	
Gl: Glossary of Terms	8	⁶ Qc
Al: Accreditations & Locations	9	⁷ Gl
Sc: Sample Chain of Custody	10	⁸ Al
		⁹ Sc

SAMPLE SUMMARY

20220928-PR_FED_C-1W-BG (1515) @ 1' L1541679-01 Solid

Collected by
Alex Slorby

Collected date/time
09/28/22 15:15

Received date/time
09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:10	10/12/22 16:10	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1938132	1	10/06/22 16:00	10/06/22 18:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:21	JPD	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

Confluence Compliance Companies - CO

PROJECT:

315979

SDG:

L1541679

DATE/TIME:

10/13/22 12:45

PAGE:

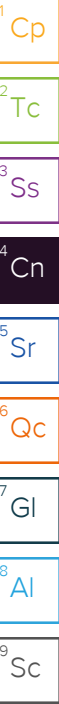
3 of 10

CASE NARRATIVE

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 Ward
Project Manager



Calculated Results

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte					
Sodium Adsorption Ratio	0.0659		1	10/12/2022 16:10	WG1940413

¹Cp

²Tc

Wet Chemistry by Method 9045D

	Result	Qualifier	Dilution	Analysis date / time	Batch
Analyte	su				
pH	8.29	T8	1	10/06/2022 18:00	WG1938132

³Ss

⁴Cn

Sample Narrative:

L1541679-01 WG1938132: 8.29 at 18.4C

⁵Sr

Metals (ICPMS) by Method 6020

	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Analyte	mg/kg		mg/kg	mg/kg			
Arsenic	4.01		0.100	1.00	5	10/06/2022 14:21	WG1937115

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1538852-41 Original Sample (OS) • Duplicate (DUP)

(OS) L1538852-41 10/06/22 18:00 • (DUP) R3845601-2 10/06/22 18:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.04	8.04	1	0.000		1

Sample Narrative:

OS: 8.04 at 18.7C

DUP: 8.04 at 18.7C

L1541678-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541678-01 10/06/22 18:00 • (DUP) R3845601-3 10/06/22 18:00

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.37	8.36	1	0.120		1

Sample Narrative:

OS: 8.37 at 18.4C

DUP: 8.36 at 18.5C

Laboratory Control Sample (LCS)

(LCS) R3845601-1 10/06/22 18:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	9.91	99.1	99.0-101	

Sample Narrative:

LCS: 9.91 at 18.7C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	96.4	96.4	80.0-120	

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

	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	%	%		%			%	%
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

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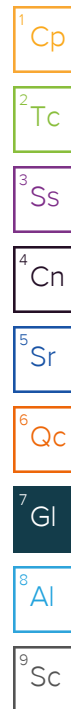
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Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
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Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

T8	Sample(s) received past/too close to holding time expiration.
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ACCREDITATIONS & LOCATIONS

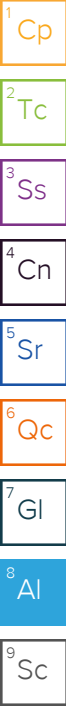
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

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

* 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 Analytical.



Confluence Compliance Companies - CO

Sample Delivery Group: L1541682
Samples Received: 09/30/2022
Project Number: 315979
Description: AEC005-Pinyon Ridge Fed C-1W (315979)
Site: PINYON RIDGE FED C-1W/315979
Report To: Chris McKisson
403 ½ Rockwood Lane
Grand Junction, CO 81507

Entire Report Reviewed By:



Chris Ward
Project Manager

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

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

20220928-PR_FED_C-1W-BG (1440) @ 1' L1541682-01 Solid

Collected by
Alex Slorby

Collected date/time
09/28/22 14:40

Received date/time
09/30/22 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1940413	1	10/12/22 16:19	10/12/22 16:19	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG1939090	1	10/07/22 14:00	10/07/22 16:00	SGB	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG1937115	5	10/04/22 17:46	10/06/22 14:31	JPD	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

ACCOUNT:

Confluence Compliance Companies - CO

PROJECT:

315979

SDG:

L1541682

DATE/TIME:

10/13/22 12:46

PAGE:

3 of 10

CASE NARRATIVE

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 Ward
Project Manager



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.0894		1	10/12/2022 16:19	WG1940413

1
Cp

2
Tc

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.19	T8	1	10/07/2022 16:00	WG1939090

3
Ss

4
Cn

Sample Narrative:

L1541682-01 WG1939090: 8.19 at 21.1C

5
Sr

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Arsenic	8.16		0.100	1.00	5	10/06/2022 14:31	WG1937115

6
Qc

7
Gl

8
Al

9
Sc

L1540921-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1540921-04 10/07/22 16:00 • (DUP) R3845985-2 10/07/22 16:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	11.2	11.2	1	0.0896		1

Sample Narrative:

OS: 11.15 at 22.5C

DUP: 11.16 at 22.4C



L1541823-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1541823-01 10/07/22 16:00 • (DUP) R3845985-3 10/07/22 16:00

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	su	su		%		%
pH	7.92	7.96	1	0.504		1

Sample Narrative:

OS: 7.92 at 20.9C

DUP: 7.96 at 21.1C

Laboratory Control Sample (LCS)

(LCS) R3845985-1 10/07/22 16:00

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	su	su	%	%	
pH	10.0	9.90	99.0	99.0-101	

Sample Narrative:

LCS: 9.9 at 20C

Method Blank (MB)

(MB) R3845451-1 10/06/22 13:23

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Arsenic	U		0.100	1.00

Laboratory Control Sample (LCS)

(LCS) R3845451-2 10/06/22 13:26

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Arsenic	100	96.4	96.4	80.0-120	

L1541384-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1541384-01 10/06/22 13:29 • (MS) R3845451-5 10/06/22 13:39 • (MSD) R3845451-6 10/06/22 13:42

	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	%	%		%			%	%
Arsenic	100	3.91	112	108	108	104	5	75.0-125			3.26	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

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.

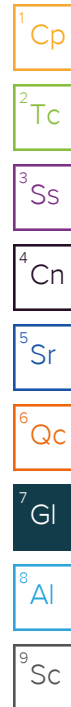
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
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

T8	Sample(s) received past/too close to holding time expiration.
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ACCREDITATIONS & LOCATIONS

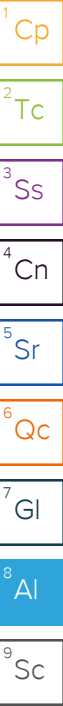
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Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

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

* 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 Analytical.



of: _____