

May 16, 2023

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

Re: Release Characterization and Remediation Closure Report
 Maverick Permian, LLC
 MCA 2C Injection Header Flange Release and MCA 2C Header East Line Release
 Unit Letter J, Section 28, Township 17 South, Range 32 East
 Lea County, New Mexico
 Incident IDs: nRM1930950727 and nAPP2117456525

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was initially contracted by ConocoPhillips to assess two releases that occurred at the Maljamar Cooperative Agreement (MCA) 2C Production and Water Injection Header, located in Unit Letter J, Section 28, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). The releases occurred at coordinates 32.803723°, -103.769483° and 32.803770°, -103.769476° as shown in **Figures 1** and **2**. Maverick Permian, LLC (Maverick) acquired this site from ConocoPhillips in 2022 and contracted Tetra Tech to continue working on the site remediation. This Closure Report covers both incidents, which were remediated concurrently.

BACKGROUND

MCA 2C Injection Header Flange Release (nRM1930950727)

According to the State of New Mexico C-141 Initial Report provided in **Appendix A**, the **nRM1930950727** release was discovered on October 2, 2019. The release occurred as the result of a leak from a gasket on the header flange valve causing a release of approximately 12.3 barrels (bbls) of crude oil and 110.7 bbls of produced water, of which 1 bbl of crude oil and 7 bbls of produced water were reported recovered during initial response activities. The release notification was received by the New Mexico Oil Conservation District (NMOCD) on November 5, 2019. The NMOCD assigned this release Remediation Permit (RP) number **1RP-5779** and Incident Identification (ID) **nRM1930950727**.

MCA 2C Header East Line Release (nAPP2117456525)

According to the State of New Mexico C-141 Initial Report provided in **Appendix B**, the **nAPP2117456525** release was discovered on June 15, 2021. The release occurred as the result of an injection line developing a leak at the header, below ground level, at the riser releasing approximately 9 barrels (bbls) of produced water, of which 0 bbl of produced water was reported as recovered during the initial response activities. The NMOCD

Tetra Tech, Inc.

received the release notification on June 24, 2021, and subsequently assigned the Site the Incident Identification (ID) **nAPP2117456525**.

SITE CHARACTERIZATION

Tetra Tech performed a site characterization and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). According to the Bureau of Land Management (BLM) the Site is in an area of low karst potential.

The Site is within a New Mexico oil and gas production area. According to the New Mexico Office of the State Engineers (NMOSE) database, there are 2 wells within a ½ mile (800-meter) radius of the Site with an average depth to groundwater at 99 feet (ft) below ground surface (bgs). The site characterization data is included in **Appendix C**.

REGULATORY FRAMEWORK

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

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

Constituent	Site RRALs
Chloride	10,000 mg/kg
ТРН	2,500 mg/kg
Benzene	10 mg/kg
BTEX	50 mg/kg

Closure Criteria for Soils Impacted by a Release

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

Reclamation Requirements

Constituent	Reclamation Requirements
Chloride	600 mg/kg
ТРН	100 mg/kg

MCA 2C INJECTION HEADER FLANGE RELEASE (NRM1930950727) INITIAL RESPONSE AND ASSESSMENT ACTIVITIES

Initial Site Assessment and Analytical Results

An initial site assessment was conducted by ConocoPhillips (COP) in October 2019 when COP personnel collected soil samples from forty-five accessible locations (SP-1 through SP-45) throughout the release extent interior. The borings were installed to a maximum depth of 2 feet below ground surface (bgs). **Figure 3** depicts the release extent and the October 2019 sampling locations.

A total of 90 soil samples were collected from these boring locations and submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via EPA Method SM4500Cl-B. Laboratory analytical reports and chain-of-custody documentation were previously submitted to the NMOCD under Incident ID **nRM1930950727** in the Release Characterization and Remediation Work Plan dated July 14, 2021.

During the initial assessment event, analytical results associated with the majority of sample locations exceeded the reclamation requirement of 600 mg/kg chloride. However, of the 45 sample locations, the analytical results associated with 9 of the sample locations (SP #5, SP #12, SP #13, SP #25, SP #27, SP #29, SP #31, SP #32 and SP #42) were below 600 mg/kg for chloride in both the surface and 2 feet bgs sample depths. Results from the October 2019 soil screening event are summarized in **Table 1**. Neither horizontal nor vertical delineation of the release was achieved during this assessment.

Initial Response and Remedial Activities

In accordance with 19.15.29.8. B. (4) NMAC "the responsible party may commence remediation immediately after discovery of a release", COP elected to begin remediation of the southern end of the footprint in early 2020. Portions of the release extent footprint found adjacent to the MCA #480 lease pad were excavated by COP personnel with heavy equipment to approximately 1 foot below ground surface (bgs) to remove the visually impacted soils. **Figure 3** depicts the excavated area.

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Additional Site Assessment

In order to achieve horizontal and vertical delineation of the nRM1930950727 release extent, Tetra Tech personnel conducted soil sampling from March to July 2020 on behalf of COP. Due to the abundance of surface flowlines and subsurface injection lines running across and through the release area footprint, a drilling rig was not able to safely access the release extent footprint and drill for delineation. Therefore, the site assessment activities consisted of digging a series of test pits within the release extent footprint with a mini excavator for vertical delineation, as well as completing borings for horizontal delineation around the release extent perimeter using a hand auger. These assessment activities were conducted in conjunction with additional assessment activities in the area, thus, sample location nomenclature is non-consecutive.

For the additional delineation, a total of four (4) test pits (or trenches) were completed within the interior of the nRM1930950727 release extent. Trenches T-5 & T-6 were completed in the southern portion of the footprint and T-7 & T-8 were completed in the northern portion of the footprint.

A series of auger holes (AH) were completed as shown in **Figure 4A** to complete horizontal delineation. These auger holes were installed along and around the perimeter of the release extent (to the north, east, south, and west, respectively) to a depth of 4 ft bgs to achieve horizontal delineation. The auger holes were completed alongside the trench locations and named accordingly. For instance, AH-5E and AH-5W are locations that provide horizontal delineation on the east and west sides of T-5, respectively. **Figure 4A** depicts the release extent and the May 2020 sampling locations. In some areas, additional step-out locations were required for horizontal delineation. These locations are designated with a numeral following the cardinal direction (*i.e.*, AH-5W-2).

A total of 41 soil samples were collected from these various trench and boring locations and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for a combination of chloride via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Summary of Assessment and Characterization

During the additional assessment event in 2020, the analytical results associated with boring locations T-5 through T-8, AH-5S, AH-5W-2, AH-7W, AH-7E, and AH-8W were reported at concentrations greater than RRALs for TPH and/or chloride in the minority of the sample intervals. Analytical results associated with boring locations AH-5S-2, AH-5W, AH-5E, AH-6W, AH-6E, AH-7W-2, AH-7E-2, AH-8W-2, AH-8E, and AH-8N were below the RRALs for TPH, BTEX, and chloride. Soil sampling events are summarized in **Table 2** and **Table 3**. Laboratory analytical reports and chain-of-custody documentation were previously submitted to the NMOCD under Incident ID **nRM1930950727** in the Release Characterization and Remediation Work Plan dated July 14, 2021.

T-7 was installed within the release footprint to specifically clarify the vertical extent of the release in the nRM1930950727 footprint. The analytical results associated with the 17.5' sample at T-7 is the vertical

delineation point for this release and the reported concentrations are less than the most stringent RRALs for chloride, TPH, and BTEX.

The horizontal extent of the release footprint was defined through several iterations of hand auger borings. The analytical results associated with the AH-5S location exceeded the RRAL for TPH, however, AH-5S-2 was completed as an additional southern delineation point and was below the applicable RRALs. AH-6E, AH-7E-2, and AH-8E bound the release to the east. After several iterative boring locations, the release extent is bound to the west by locations AH-5W, AH-6W, AH-7W-2, and AH-8W-2. AH-8N bounds the release to the north. These borings meet the requirements for horizontal delineation per 19.15.29.11(A)(5)(b) NMAC.

The analytical results associated with samples collected around the release extent in the upper four (4) feet were below the reclamation RRALs for total TPH (GRO + DRO + ORO), BTEX and/or chloride in all samples.

MCA 2C HEADER EAST LINE RELEASE (NAPP2117456525) INITIAL RESPONSE AND ASSESSMENT ACTIVITIES

Initial Response

In accordance with 19.15.29.8.B.(4) NMAC that states "the responsible party may commence remediation immediately after discovery of a release", COP elected to begin remediation of the impacted area associated with the NAPP2117456525 release in 2021. The on-pad area of the release footprint and off-pad areas in the pasture were hand dug and scraped to approximately 6 inches bgs to remove visually impacted soils. Approximately 38 cubic yards (CY) of impacted material was removed from the footprint and disposed of at the R360 Halfway Facility in Hobbs, New Mexico.

Site Assessment

In order to achieve horizontal and vertical delineation of the NAPP2117456525 release extent, Tetra Tech personnel conducted soil sampling on February 15 and 16, 2022 on behalf of COP. Due to the abundance of surface flowlines and subsurface injection lines running across and through the release area footprint, a drilling rig was not able to safely access the release extent footprint and drill for delineation. Therefore, the site assessment activities consisted of trenching a series of test pits within the release extent footprint with a mini excavator for vertical delineation, as well as completing borings for horizontal delineation around the release extent perimeter using a hand auger. A total of four (4) trenches (T-1 through T-4) were installed within the observed release footprint to a depth of 12 ft bgs in order to achieve vertical delineation of the release extent. A total of nine (9) borings (AH-1 through AH-9) were installed along the perimeter of the observed release footprint to achieve horizontal delineation. The trench and boring locations are shown in **Figure 4B**.

A total of 42 soil samples were collected from the four trench and nine borehole locations, then submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for a combination of chlorides via Standard Method 4500CL-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Summary of Sampling Results

Laboratory analytical results from the February 2022 assessment activities are summarized in **Table 2** and **Table 3**. The analytical results associated with samples collected from interior trench locations T-1 through T-4 reported concentrations greater than the Site reclamation requirements for soil in the upper four feet. Analytical results associated with the remainder of the samples collected from below four feet reported concentrations less than the RRALs for TPH, BTEX, and chloride. Based on the groundwater determination as described in the site characterization (greater than 50 feet below ground surface), the analytical results collected from the trench floors stand as a vertical definition. Analytical results associated with the 0-1 interval from perimeter location AH-8 exceeded the reclamation requirement for TPH. Boring AH-9 was completed to delineate the impact found in AH-8. All other analytical results from the perimeter boring locations were below Site reclamation requirements. The analytical results within the perimeter sample locations determine the lateral extent of this release and are 600 mg/kg chloride or less. Laboratory analytical reports and chain-of-custody documentation were previously submitted to the NMOCD under Incident ID **nAPP2117456525** in the Release Characterization and Remediation Work Plan dated March 2, 2022.

REMEDIATION WORK PLANS AND APPROVALS

Tetra Tech prepared the Release Characterization and Remediation Work Plans (Work Plans) for both releases on behalf of the former operator (ConocoPhillips). Maverick acquired the site from ConocoPhillips in June of 2022.

The Work Plan for incident **nRM1930950727** was submitted to NMOCD on July 14, 2021, and approved on November 8, 2021. A subsequent extension request was granted to June 30, 2022. However, just prior to the extension deadline, Maverick acquired the site. The proposed reclamation and remediation areas and depths from that work Plan are depicted in **Figure 5A**.

The Work Plan for incident **nAPP2117456525** was submitted to NMOCD on March 2, 2022, and approved on March 29, 2022. On behalf of Maverick, Tetra Tech requested an extension on June 21, 2022, but the Request was denied by the NMOCD on June 22, 2022. The proposed reclamation and remediation areas and depths from that work Plan are depicted in **Figure 5B**.

REMEDIATION AND CONFIRMATION SAMPLING

Based on the soil assessment and delineation results for the two releases and the approved remediation work plans, the areas of impact had significant overlap. Therefore, the remediation areas for both incidents were conducted as one field remediation project. Excavation activities commenced on March 7, 2023, and concluded on April 6, 2023.

Maverick's subcontractor, SDR Enterprises, Inc. (SDR) performed the excavation remediation work. SDR used a hydrovac to determine the exact locations of underground pipelines running through the remediation zone.

They then used heavy equipment to excavate soil to within 2 feet of identified underground flowlines. The remaining soil was excavated by hand and the uncovered pipelines were supported with cribbing until the excavation was backfilled with clean soil.

SDR excavated a total area of 1,246 square yards. The entire area was excavated to a minimum depth of 2 feet below ground surface (bgs). Based on the previously obtained site data, as well as confirmation samples obtained during remediation, approximately 40 percent of the area (497 square yards) was excavated to a total depth of 4 feet bgs. A total of 1,280 CY of soil was excavated and transported to R360 CRI in Hobbs, New Mexico, for disposal. **Figure 6** depicts the areas and depths excavated during the remediation work.

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 81 confirmation samples, including 24 floor samples and 56 side wall samples from the excavated areas. Additionally, one floor confirmation sample was taken at the T-7 location, to confirm that Reclamation Requirements would not be exceeded from depths of 3 to 4 feet. The confirmation sample locations are shown in **Figures 7A** and **7B**. Collected confirmation samples were placed into laboratory-provided sample containers, and transferred to Cardinal Laboratories in Hobbs, New Mexico under chain-of-custody documentation. The soil samples were analyzed for chloride by Method SM4500 CL-B, TPH by Method 8015M, and BTEX by Method 8021B. Laboratory analytical results for submitted confirmation samples are summarized in **Table 4**.

Floor samples FS-1, FS-11, and FS-14 and sidewall samples NSW-2, ESW-9, ESW-9A, WSW-12, WSW-13, WSW-13-A, and WSW-14 reported concentrations of Chloride and/or TPH as greater than Reclamation requirements. Additional lateral or vertical excavation was undertaken at these locations prior to reaching the final limits of excavation and final confirmation samples were then taken which reported concentrations as less than Reclamation Requirements as shown in **Table 4**. In the case of floor samples, the excavation was extended from 2 feet bgs to 4 feet bgs, and the final sample is designated with "-A" after the sample number. Likewise, when sidewall samples exceeded reclamation requirements, the excavation was extended laterally until reclamation requirements were achieved, and an additional sample was taken to confirm the result. These final "clean" samples are also designated with "-A" or" after the sample number. In two locations, ESW-9, and WSW-13, it took two additional attempts at excavation and sampling, hence the final "clean" sample is designated with "-B". Because all samples obtained at a depth of 4 feet bgs achieved Reclamation Requirements, clean margins were demonstrated to the most stringent remediation requirements.

Between April 3 and April 6, 2023, subsequent to the receipt of final confirmation sampling results, SDR completed backfilling of the excavated areas with 1,200 CY of clean topsoil obtained from the Seth Boyd Pit and trucked to the Site.

Confirmation sampling results are summarized in **Table 4** and laboratory analytical data packages including chain of custody documentation are included in **Appendix D**. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Appendix E**.

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Site Remediation Closure Report Maverick Permian, LLC MCA 2C Injection Header Flange and Header East Line Releases Incident IDs: nRM1930950727 and nAPP2117456525

CONCLUSIONS

Based on the results of the excavation and confirmation sampling, the impacted soil within the footprint of both releases identified as incidents nRM1930950727 and nAPP2117456525 has been removed and properly disposed of offsite and the excavated area has been backfilled with clean material. Therefore, Site reclamation/remediation requirements have been achieved for both releases. The backfilled areas have been graded and seeded to aid in vegetation growth to complete reclamation. The NMSLO Sandy (S) seed mixture was used as shown in **Appendix F**. If you have any questions concerning the remediation activities for the Site, please call me at (832) 251-2093 or Steve at (713) 806-8871.

Sincerely,

han

Charles H. Terhune IV, P.G. Program Manager Tetra Tech, Inc.

John Jeste

Stephen Jester Program Manager Tetra Tech, Inc.

Cc: Mr. Bryce Wagoner – Maverick Natural Resources Ms. Shelly Tucker - BLM

LIST OF ATTACHMENTS

Figures:

- Figure 1 Overview Map
- Figure 2 Topographic Map
- Figure 3 Approximate Release Extent and Initial Response (NRM1930950727)
- Figure 4A Site Assessment Map (NRM1930950727)
- Figure 4B Site Assessment Map (NAPP2117456525)
- Figure 5A Proposed Remediation Extent (NRM1930950727)
- Figure 5B Proposed Remediation Extent (NAPP2117456525)
- Figure 6 Excavation Extents (NRM1930950727 & NAPP2117456525)
- Figure 7A Confirmation Sampling Locations North (NRM1930950727 & NAPP2117456525)
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Tables:

- Table 1 Summary of Analytical Results Initial Soil Assessment NRM1930950727
- Table 2 Summary of Analytical Results Additional Shallow Soil Assessment NRM1930950727 & NAPP2117456525
- Table 3 Summary of Analytical Results Additional Deep Soil Assessment NRM1930950727 & NAPP2117456525
- Table 4 Summary of Analytical Results Soil Confirmation Samples NRM1930950727 & NAPP2117456525

Appendices:

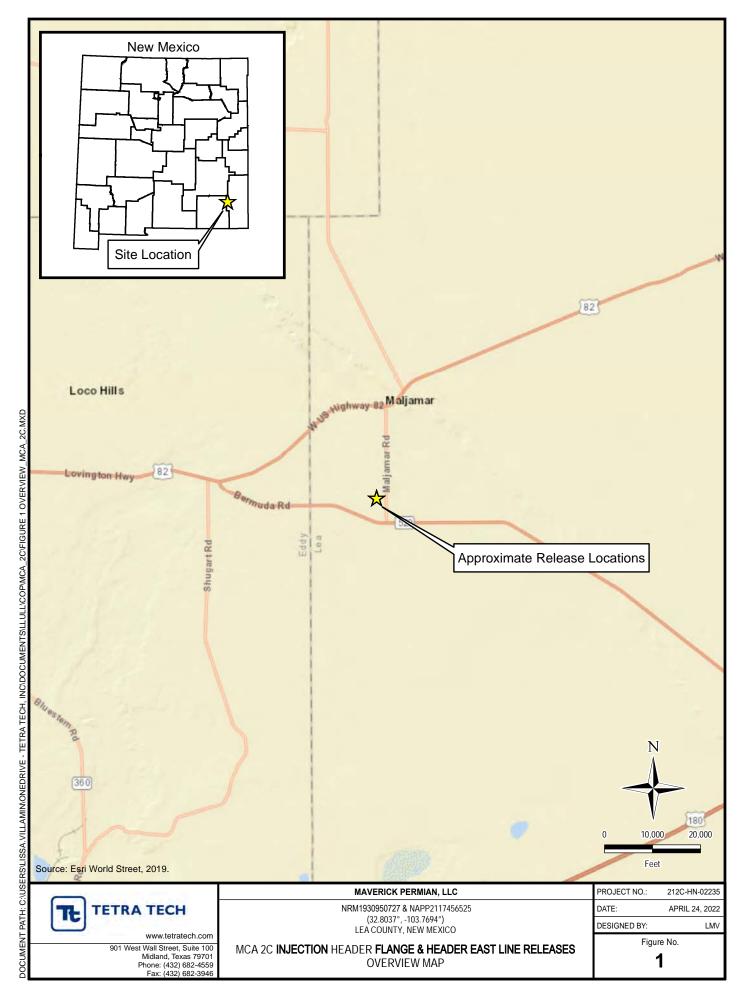
- Appendix A C-141 Form nRM1930950727
- Appendix B C-141 Form nAPP2117456525
- Appendix C Site Characterization Data
- Appendix D Laboratory Analytical Data
- Appendix E Photographic Documentation
- Appendix F NMSLO Seed Mixture Details

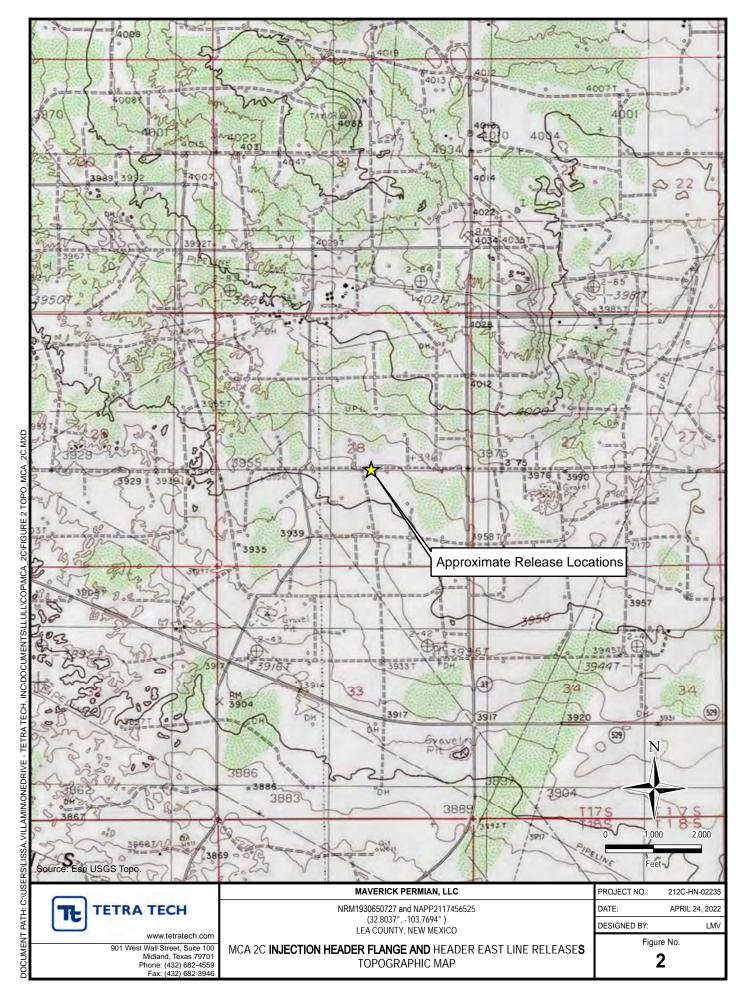
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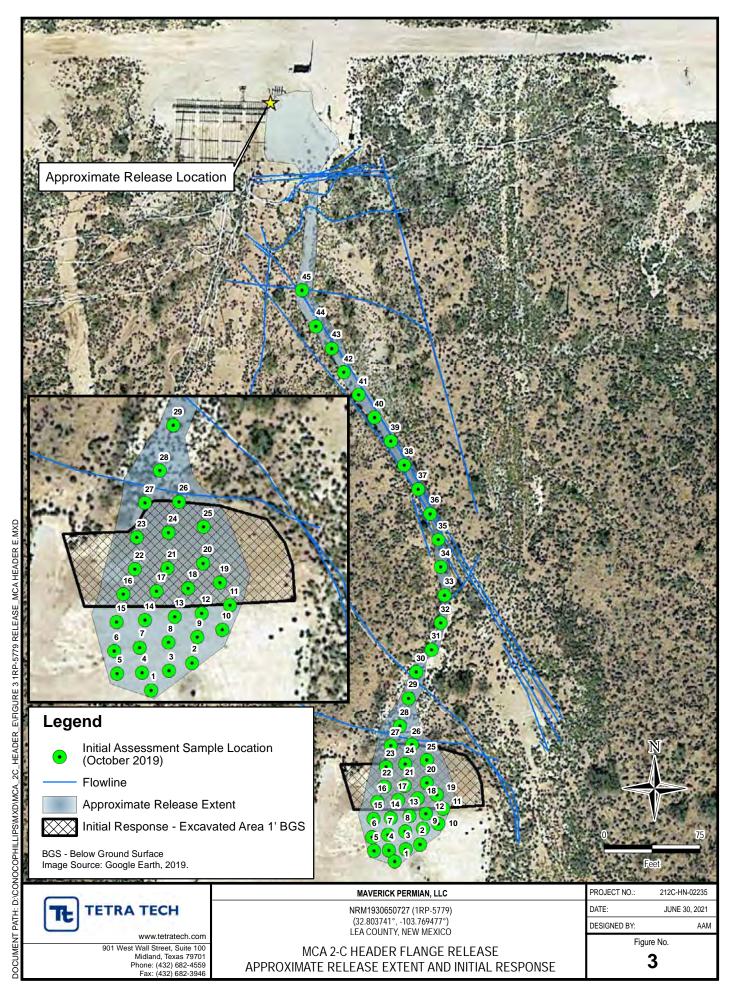
May 16, 2023

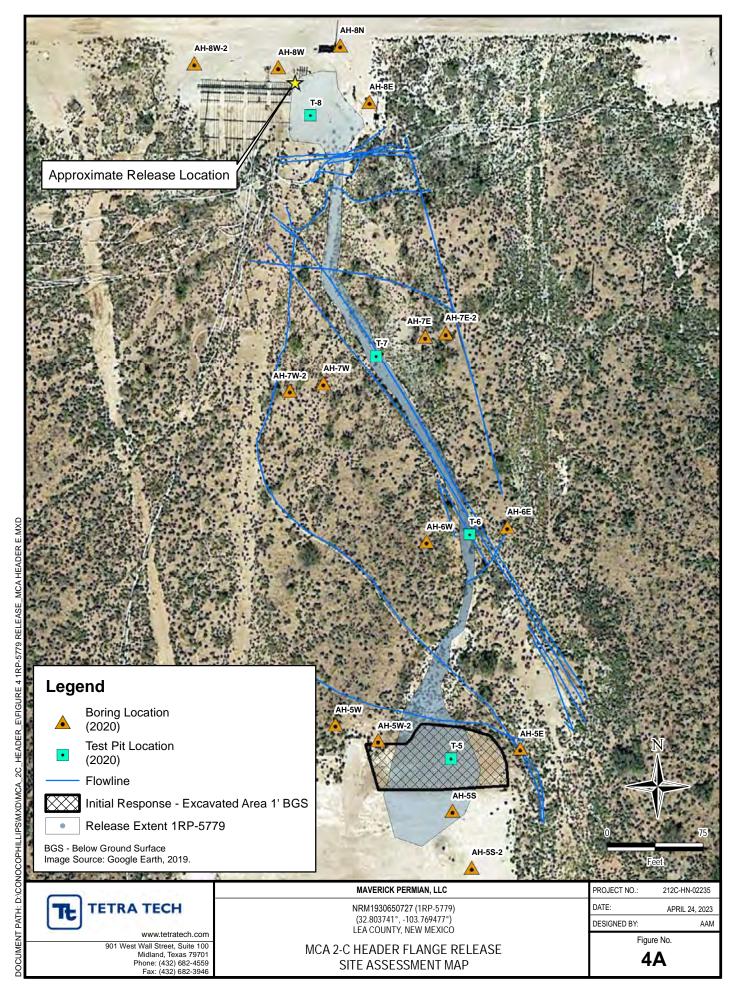
FIGURES

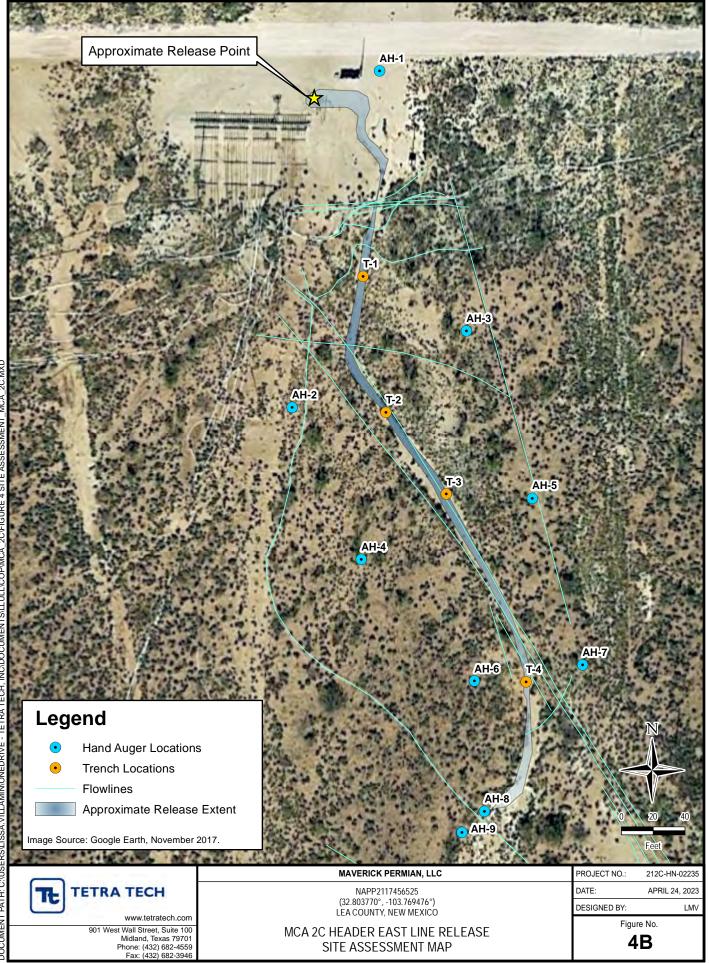
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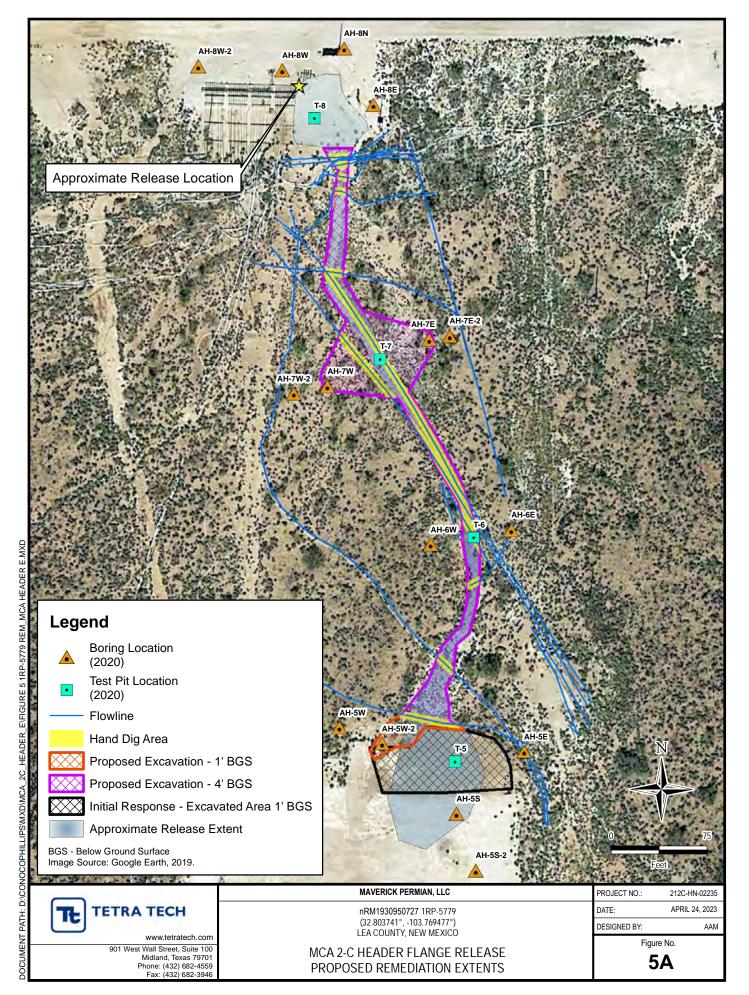


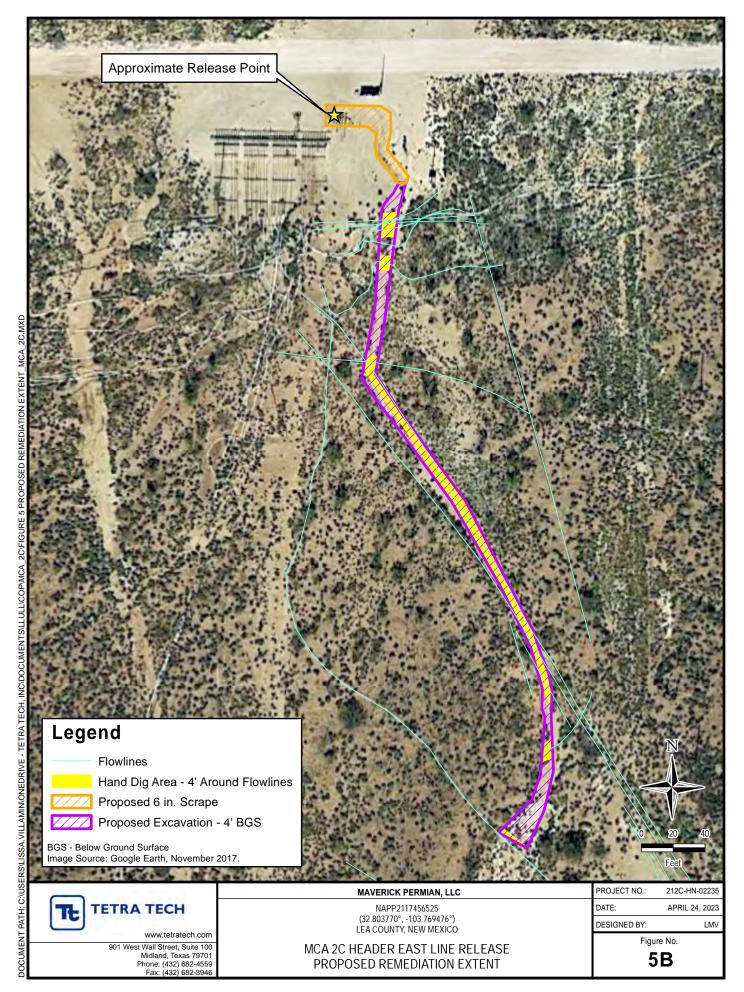




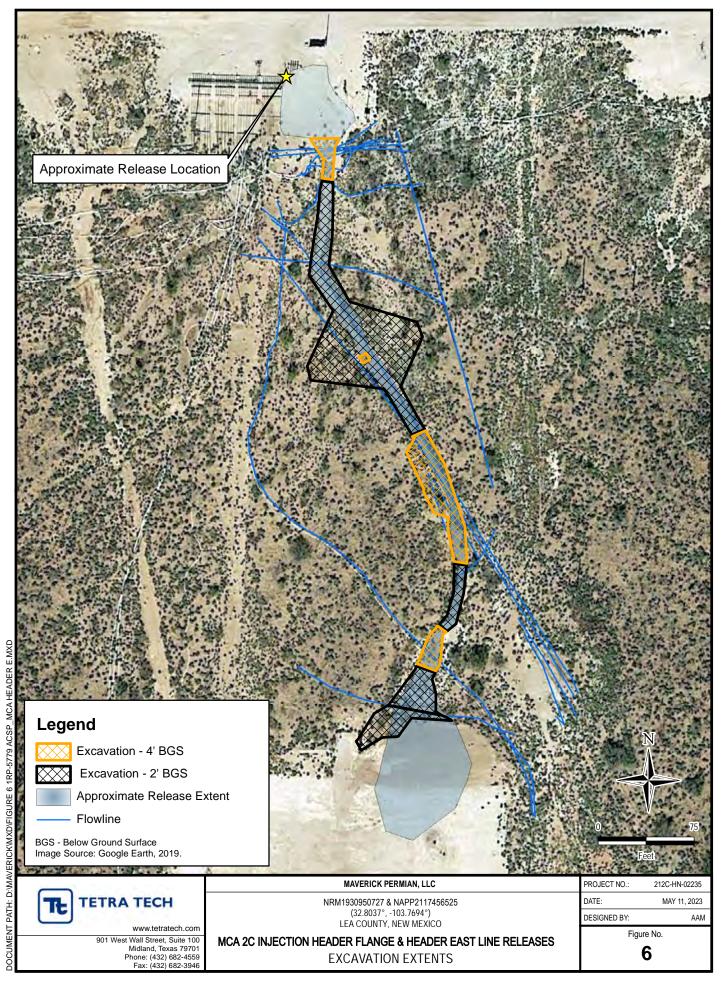


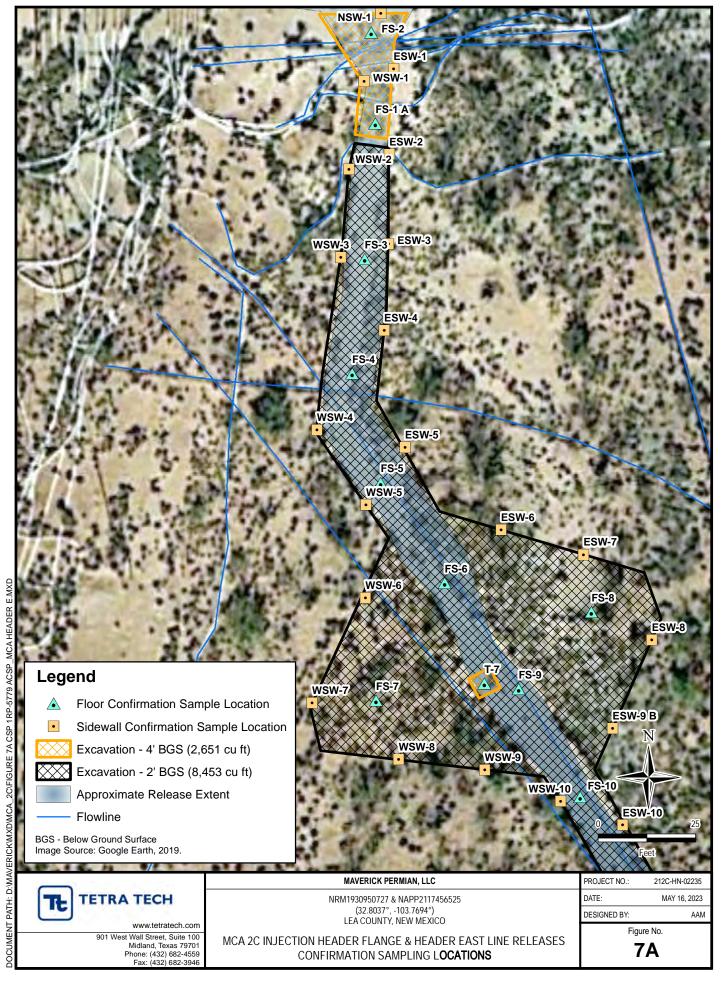


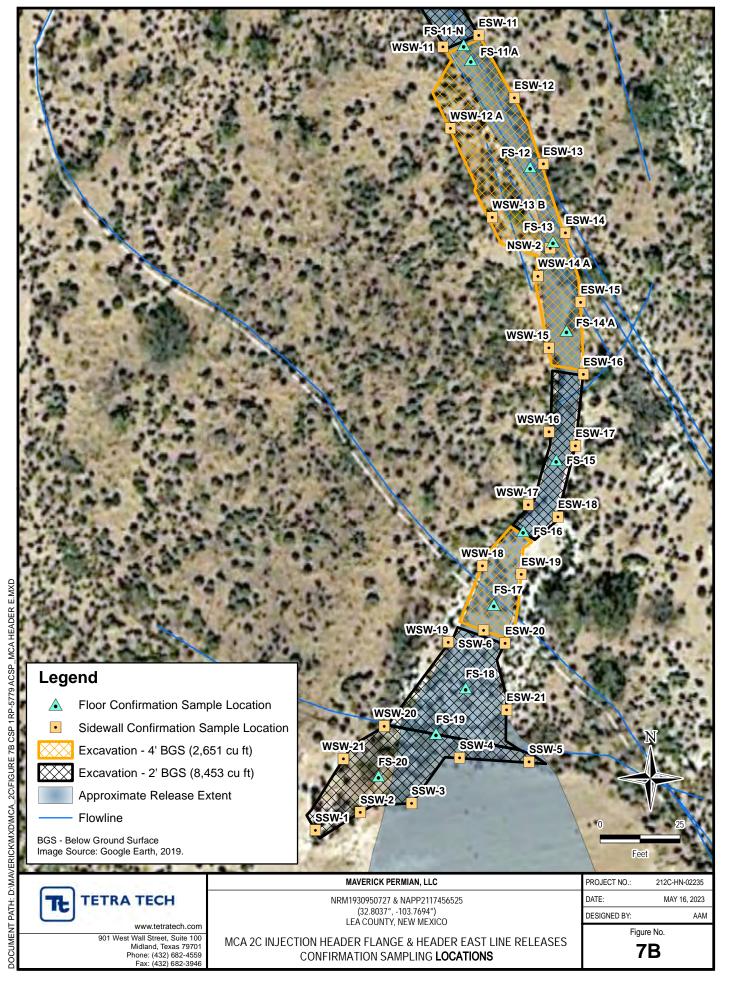




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TABLES

SUMMARY OF ASSESSMENT ANALYTICAL RESULTS INITIAL SOIL ASSESSMENT - nRM193095727 MAVERICK NATURAL RESOURCES MCA 2C INJECTION HEADER FLANGE RELEASE LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth Interval	Chlorid	e ^{1,2}
		feet bgs	mg/kg	Q
Surface Soil Reclam	ation Requirements ³		600	
SP #1	10/23/2019	Surface	16,000	
5P #1	10/23/2019	2	32	
SP #2	10/23/2019	Surface	864	
3F #2	10/23/2015	2	368	
SP #3	10/23/2019	Surface	27,600	
SP #3	10/23/2019	2	64	
SP #4	10/23/2019	Surface	64	
3r #4	10/23/2019	2	2,720	
SP #5	10/23/2019	Surface	48	
SP #5	10/23/2019	2	224	
SP #6	10/23/2019	Surface	32	
SP #6	10/23/2019	2	2,720	
CD #7	10/22/2010	Surface	48	
SP #7	10/23/2019	2	8,640	
CD #0	10/22/2010	Surface	544	
SP #8	10/23/2019	2	800	
CD #0	10/22/2010	Surface	12,800	
SP #9	10/23/2019	2	32	
CD #40	10/22/2010	Surface	7,040	
SP #10	10/23/2019	2	32	
CD #11	10/22/2010	Surface	1,890	
SP #11	10/23/2019	2	16	
00 1140	10/22/2010	Surface	16	
SP #12	10/23/2019	2	32	
00 // 00	10/22/2010	Surface	80	
SP #13	10/23/2019	2	16	
00 114	10/22/2010	Surface	5,520	
SP #14	10/23/2019	2	16	
00 // 15	10/22/2010	Surface	34,000	QM-07
SP #15	10/23/2019	2	16	

Sample ID	Sample Date	Sample Depth Interval	Chloride ^{1,2}					
		feet bgs	mg/kg Q					
Surface Soil Reclam	ation Requirements	3	600					
SP #16	10/23/2019	Surface	18,400					
3P #10	10/23/2019	2	656					
SP #17	10/23/2019	Surface	9,730					
3P #17	10/23/2019	2	112					
CD #10	10/23/2019	Surface	14,600					
SP #18	10/23/2019	2	80					
CD #10	10/22/2010	Surface	8,130					
SP #19	10/23/2019	2	96					
CD #20	10/23/2019	Surface	336					
SP #20	10/23/2019	2	4,560					
CD #21	10/22/2010	Surface	896					
SP #21	10/23/2019	2	64					
CD #22	10/22/2010	Surface	64					
SP #22	10/23/2019	2	1,730					
CD #22	10/23/2019	Surface	3,680					
SP #23	10/23/2019	2	320					
CD #24	10/23/2019	Surface	3,080					
SP #24	10/23/2019	2	336					
CD #25	10/23/2019	Surface	64					
SP #25	10/23/2019	2	448					
SP #26	10/23/2019	Surface	640					
SP #20	10/23/2019	2	1,740					
CD #27	10/23/2019	Surface	< 16.0					
SP #27	10/23/2019	2	< 16.0					
SP #28	10/23/2019	Surface	4,880					
3r #20	10/23/2013	2	1,550					
SP #29	10/23/2019	Surface	16					
3r #29	10/23/2013	2	16					
SP #30	10/23/2019	Surface	224					
Sr #30	10/23/2019	2	2,520					

Sample ID	Sample Date	Sample Depth Interval	Chlorid	e ^{1,2}
		feet bgs	mg/kg	Q
Surface Soil Reclan	nation Requirements	3	600	
SP #31	10/23/2019	Surface	32	
3F #31	10/23/2013	2	208	
SP #32	10/23/2019	Surface	16	
51 #52	10/23/2013	2	224	
SP #33	10/23/2019	Surface	3,560	
3F #33	10/23/2013	2	3,040	
SP #34	10/23/2019	Surface	2,440	
3F #34	10/23/2013	2	1,090	
SP #35	10/23/2019	Surface	256	
3F #33	10/23/2013	2	1,760	
SP #36	10/23/2019	Surface	1,100	
3F #30	10/23/2013	2	2,360	
SP #37	10/23/2019	Surface	8,260	
SP #37	10/23/2013	2	816	
SP #38	10/23/2019	Surface	96	
SP #38	10/23/2019	2	768	
SP #39	10/23/2019	Surface	144	
3F #35	10/23/2013	2	1,410	
SP #40	10/23/2019	Surface	256	
3F #40	10/23/2013	2	1,170	
SP #41	10/23/2019	Surface	160	
3F ##1	10/23/2013	2	608	
SP #42	10/23/2019	Surface	128	
JF #42	10/23/2019	2	448	
SP #43	10/23/2019	Surface	160	
or #40	10/23/2019	2	880	
SP #44	10/23/2019	Surface	1,630	
3r #44	10/23/2019	2	880	
SP #45	10/23/2019	Surface	1,780	QM-07
JF #4J	10/23/2019	2	752	

NOTES:

bgs Below ground surface

1 EPA Method 300.0

2 Method SM4500Cl-B

3 19.15.29 NMAC Surface Soil Reclamation Requirements

SUMMARY OF ANALYTICAL RESULTS SHALLOW SOIL ASSESSMENT - NRM1930950727 & NAPP2117456525 MAVERICK NATURAL RESOURCES MCA 2C INJECTION HEADER FLANGE AND HEADER EAST LINE RELEASES LEA COUNTY, NEW MEXICO

			F 110								BTEX ²									TPH ³		
		Sample Depth	Field Screeni	ing Results	Chlorid	le ¹			- 1		ed. 11		T		7.1.10757	GRC)	DRC)	EXT DI	RO	Total TPH
Sample ID	Sample Date		Chloride	PID			Benzer	ne	Toluer	ıe	Ethylben	zene	Total Xyl	enes	Total BTEX	C ₆ - C	10	> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		feet bgs	ppm	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Shallow Soil Reclama	tion Requirements		-	-	600		10		-		-		-		50	-		-		-		100
MCA 2C Injection Hea	ader Flange Release (r	nRM1930950727)													•							
AH-5E	3/5/2020	0-1	50	0.0	2.5	J	< 0.00104		< 0.00521		< 0.00261		< 0.00678		-	0.0312	ВJ	9		33.3		42.3
AH-SE	3/5/2020	3-4	34	0.0	209		< 0.00106		< 0.00529		< 0.00264		< 0.00687		-	< 0.106		3.18	J	8.05		11.2
AH-5S	3/5/2020	0-1	220	0.0	38.2		< 0.00103		< 0.00515		< 0.00258		< 0.00670		-	0.0321	ВJ	133		391		524
AH-55	3/5/2020	3-4	270	-	84.6		< 0.00110		< 0.00552		< 0.00276		< 0.00717		-	< 0.110		309		793		1102
AH-5S-2	7/8/2020	0-1	147	0.0	11.8	J	< 0.00141		< 0.00707		< 0.00354		< 0.00920		-	0.0282	1	< 4.83		4.44	ВJ	4.47
AU-22-5	7/8/2020	2-3	168	0.0	< 21.4		< 0.00107		< 0.00534		< 0.00267		< 0.00695		-	< 0.107		4.78		13.8		18.6
AH-5W	3/5/2020	0-1	36	0.0	19.2		< 0.00102		< 0.00511		< 0.00256		< 0.00665		-	0.0273	ВJ	23.8		63.4		87.2
AU-24A	3/5/2020	3-4	1290	-	33.7		< 0.00104		< 0.00520		< 0.00260		< 0.00676		-	0.0362	ВJ	18.5		6.18		24.7
AH-5W-2	7/23/2020	0-1	75.5	2.7	11.4	J	< 0.00105		< 0.00526		< 0.00263		< 0.00683		-	0.0239	1	21.45		95.5		117
AIT-SW-2	7/23/2020	2-3	124	2.1	33.3		< 0.00102		< 0.00512		< 0.00256		< 0.00665		-	< 0.102		14.2		46.7		60.9
AH-6E	3/5/2020	0-1	35	0.0	1.38	J	< 0.00104		< 0.00522		< 0.00261		< 0.00679		-	0.0323	ВJ	2.54	J	9.51		12.1
AIT-OL	3/5/2020	3-4	109	-	3.41	J	< 0.00105		< 0.00523		< 0.00262		< 0.00680		-	0.0247	ВJ	< 4.19		3.52	J	3.54
AH-6W	3/5/2020	0-1	20	0.0	1.27	J	< 0.00107		< 0.00535		< 0.00268		< 0.00696		-	0.0324	ВJ	< 4.28		3	J	3.03
AII-OW	3/5/2020	3-4	130	-	24		< 0.00108		< 0.00542		< 0.00271		< 0.00705		-	0.0788	ВJ	< 4.34		4.33	J	4.41
AH-7E	7/8/2020	0-1	36	0.0	3.69	J	< 0.00106		< 0.00528		< 0.00264		< 0.00686		-	0.0548	ВJ	9.98		28		38
AIT-7L	7/8/2020	3-4	1250	0.0	1780		< 0.00115		< 0.00574		< 0.00287		< 0.00746		-	0.0422	ВJ	7.51		16.9		24.5
AH-7E-2	7/8/2020	0-1	74	0.0	< 24.6		< 0.00146		< 0.00730		< 0.00365		< 0.00949		-	< 0.123		9.48		49.5		59
AIT-72-2	7/8/2020	2-3	101	0.0	< 20.2		< 0.00101		< 0.00504		< 0.00252		< 0.00655		-	< 0.101		1.86	J	9.44		11.3
AH-7W	3/5/2020	0-1	50	0.0	3.62	J	< 0.00106		< 0.00529		< 0.00264		< 0.00688		-	0.0546	ВJ	16.4		53.2		69.7
AH-7W	3/5/2020	3-4	365	0.0	1950		< 0.00114		< 0.00571		< 0.00286		< 0.00743		-	0.0493	ВJ	8.71		18.5		27.3
AH-7W-2	7/8/2020	0-1	97	0.0	< 20.1		< 0.00100		< 0.00502		< 0.00251		< 0.00652		-	0.0251	J	3.57	J	23.9		27.5
AIT-7 W-2	7/8/2020	2-3	91	0.0	< 23.3		< 0.00133		< 0.00667		< 0.00333		< 0.00866		-	0.0304	J	2.8	J	14.7		17.5
AH-8N	3/6/2020	0-1	68	0.1	40.3		< 0.00103		< 0.00514		< 0.00257		< 0.00668		-	0.0408	ВJ	2.19	J	7.68		9.91
All-on	3/6/2020	3-4	450	0.0	174		< 0.00105		< 0.00525		< 0.00262		< 0.00682		-	0.0377	ВJ	< 4.20		3.3	J	3.34
AH-8E	3/6/2020	0-1	780	0.0	381		< 0.00106		< 0.00528		< 0.00264		< 0.00687		-	0.044	ВJ	10.3		30.8		41.1
AIFOL	3/6/2020	3-4	350	0.0	71		< 0.00112		< 0.00559		< 0.00280		< 0.00727		-	0.0439	ВJ	10.6		31.3		41.9
AH-8W	3/6/2020	0-1	400	1.4	158		< 0.00112		< 0.00561		< 0.00280		< 0.00729		-	0.0381	ВJ	726		1260		1986
	3/6/2020	3-4	324	0.0	40.3		< 0.00112		< 0.00559		< 0.00280		< 0.00727		-	0.0422	ВJ	2.09	J	2.72	J	4.85
AH-8W-2	7/8/2020	0-1	222	0.0	16.6	J	< 0.00101		< 0.00504		< 0.00252		< 0.00655		-	< 0.101		7.36		40.1		47.5
	7/8/2020	2-3	389	0.0	53.9		0.000717	J	0.00141	J	< 0.00256		0.00102	J	0.00315	< 0.102		7.58		37.6		45.2
T-5	3/5/2020	1 - 2	200	0.0	38		< 0.00105		< 0.00526		< 0.00263	-	< 0.00684		-	0.035	ВJ	< 4.21		4.04	J	4.08
	3/5/2020	3 - 4	539	0.1	628		< 0.00114		< 0.00571		< 0.00285		< 0.00742		-	0.0649	ВJ	< 4.39		3.13	J	3.19
T-6	3/5/2020	1-2	-	2.3	569		< 0.00111		< 0.00553		< 0.00277		< 0.00719		-	0.0265	ВJ	1250		969		2219
	3/5/2020	3-4	1250	0.6	-		-		-		-		-		-	-		-		-		-
	3/5/2020	1-2	-	2.9	1110		< 0.00110		< 0.00550		< 0.00275		< 0.00715		-	0.0522	ВJ	2.45	J	8.45		11
T-7	3/5/2020	3-4	1500	0.2	-		-		-		-		-		-	-		-		-		-
	3/28/2023	3-4			532	-	<0.050		<0.050		<0.050		<0.050		-	<10		<10		<10		-
T-8	3/6/2020	1-2	1900	0.1	1080		< 0.00115		< 0.00574		< 0.00287		< 0.00746		-	0.0556	ВJ	324		633		957
10	3/6/2020	3-4	-	0.0	1580		< 0.00111		< 0.00557		< 0.00278		< 0.00724		-	0.0442	ВJ	416		725		1141

SUMMARY OF ANALYTICAL RESULTS SHALLOW SOIL ASSESSMENT - NRM1930950727 & NAPP2117456525 MAVERICK NATURAL RESOURCES MCA 2C INJECTION HEADER FLANGE AND HEADER EAST LINE RELEASES LEA COUNTY, NEW MEXICO

			Field Screen			BTEX ²														TPH ³		
Sample ID	Sample Date	Sample Depth	Field Screen	ing Results	Chloride	e ¹	D		Tolue		Ethylben		Total Xyl		Total BTEX	GRO		DRO	1	EXT DI	RO	Total TPH
Sample ID	Sample Date		Chloride	PID			Benzei	ne	Toluei	ie	Ethylben	izene	τοται λγι	enes	TOLAIDIEA	C ₆ - C ₁	.0	> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		feet bgs	ppm	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Shallow Soil Reclama	tion Requirements		-	-	600		10		-		-		-		50	-		-		-		100
MCA 2C Header East	Line Release (nAPP21	17456525)																				
AH-1	2/15/2022	0-1	107	-	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AU-1	2/15/2022	2-3	116	-	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		14.3		14.3
AH-2	2/15/2022	0-1	155	-	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AII-2	2/15/2022	2-3	514	-	256		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-3	2/15/2022	0-1	70.5	-	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		14.6		< 10.0		14.6
AII-5	2/15/2022	2-3	499	-	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-4	2/15/2022	0-1	41.5	-	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AII-4	2/15/2022	2-3	562	-	272		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-5	2/15/2022	0-1	59.4	-	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AII-5	2/15/2022	2-3	53.6	-	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-6	2/15/2022	0-1	66.7	-	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
All-0	2/15/2022	2-3	30	-	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-7	2/15/2022	0-1	42.5	-	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
50.7	2/15/2022	2-3	232	-	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-8	2/15/2022	0-1	134	-	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		188		101		289
And	2/15/2022	2-3	581	-	304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
AH-9	2/21/2022	0-1	-	-	< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
TD-1	2/16/2022	0-1	2620	-	2200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	-	< 10.0		< 10.0		-
101	2/16/2022	2-3	2240	-	2200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0	-	< 10.0		< 10.0		-
TD-2	2/16/2022	0-1	1180	-	994		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
10 2	2/16/2022	2-3	2500	-	2440		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
TD-3	2/16/2022	0-1	-	-	480		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		37.9		< 10.0		37.9
.05	2/16/2022	2-3	-	-	1090		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
TD-4	2/16/2022	0-1	-	-	1840		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
104	2/16/2022	2-3	-	-	1580		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-

NOTES:

1: Method SM4500Cl-B

2: Method 8021B

3: Method 8015M

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline range organics

DRO: Diesel range organics

bgs: Below ground surface

OUALIFIERS:

В

J

The same analyte was found in the associated blank

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

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

T8 Sample was received past or too close to the method holding time expiration

V3 The internal standarded exhibited poor recovery due to matrix interference; Results are biased high.

TABLE 3 SUMMARY OF ANALYTICAL RESULTS DEEP SOIL ASSESSMENT - NRM1930950727 & NAPP2117456525 MAVERICK NATURAL RESOURCES MCA 2C INJECTION HEADER FLANGE AND HEADER EAST LINE RELEASES LEA COUNTY, NEW MEXICO

											BTEX ²									TPH ³		
		Sample Depth	Field Screen	ing Results	Chlor	ide1	_									GRO	1	DRC)	EXT DI	10	Total TPH
Sample ID	Sample Date		Chloride	PID	1		Benze	ne	Toluer	ie	Ethylben	zene	Total Xyl	enes	Total BTEX	C ₆ - C ₁	10	> C ₁₀ -	C ₂₈	> C ₂₈ -	C ₃₆	(GRO+DRO+EXT DRO)
		feet bgs	ppm	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
Recommended Remo	liation Action Levels		-	-	10000		10		-		-		-		50	-		-		-		2500
MCA 2C Injection Hea	ader Flange Release (nf	RM1930950727)																				
T-5	3/5/2020	5-6	2500	0.0	2630		< 0.00110		< 0.00551		< 0.00276		< 0.00717		-	0.067	J	< 1.78		7.83		7.9
1-5	3/5/2020	7-8	250	0.0	233		< 0.00110		< 0.00552		< 0.00276		< 0.00717		-	0.0347	ВJ	< 4.42		1.56	J	1.59
T-6	3/5/2020	7-8	976	0.1	-		-		-		-		-		-	-		-		-		-
1-0	3/5/2020	9-10	823	-	722		< 0.00107		< 0.00535		< 0.00268		< 0.00696		-	0.0251	J	215		156		371
	3/5/2020	5-6	-	0.0	-		-		-		-		-		-	-		-		-		-
T-7	3/5/2020	7-8	1300	-	NS		NS		NS		NS		-		-	-		-		-		-
1-7	3/5/2020	9-10	1320	-	-		-		-		-		-		-	-		-		-		-
	3/5/2020	17.5	-	-	446		< 0.00105		< 0.00523		< 0.00262		< 0.00680		-	0.0392	ВJ	1.76	J	1.61	J	3.41
T-8	3/6/2020	7-8	1300	-	1360		< 0.00108		< 0.00538		< 0.00269		< 0.00699		-	0.0372	ВJ	6.49		7.75		14.3
1-0	3/6/2020	9-10	1250	0.0	1320		< 0.00109		< 0.00545		< 0.00273		< 0.00709		-	0.0379	ВJ	24.2		44.4		68.6
MCA 2C Header East	Line Release (nAPP211	7456525)																				
	2/16/2022	4-5	5740	-	7280		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
TD-1	2/16/2022	6-7	2140	-	2080		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
10-1	2/16/2022	9-10	1860	-	1120		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
	2/16/2022	11-12	952	-	992		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
	2/16/2022	4-5	3900	-	3840		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
TD-2	2/16/2022	6-7	2590	-	2640		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
10-2	2/16/2022	9-10	1150	-	101		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
	2/16/2022	11-12	833	-	832		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
	2/16/2022	4-5	-	-	1300		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		96.9		47		144
TD-3	2/16/2022	6-7	-	-	1470		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		114		11.1		125
10-5	2/16/2022	9-10	-	-	992		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		117		23.8		141
	2/16/2022	11-12	-	-	1200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		27.8		< 10.0		27.8
	2/16/2022	4-5	-	-	3520	QM-07	< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
TD-4	2/16/2022	6-7	-	-	1200		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
.54	2/16/2022	9-10	-	-	1220		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-
	2/16/2022	11-12	-	-	1460		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		< 10.0		< 10.0		-

NOTES:

1: Method SM4500Cl-B

2: Method 8021B

3: Method 8015M

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline range organics

DRO: Diesel range organics

bgs: Below ground surface

QUALIFIERS:

1

Т8

B The same analyte was found in the associated blank

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

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

Sample was received past or too close to the method holding time expiration

V3 The internal standarded exhibited poor recovery due to matrix interference; Results are biased high.

SUMMARY OF ANALYTICAL RESULTS CONFIRMATION SAMPLING - NRM1930950727 & NAPP2117456525 MAVERICK NATURAL RESOURCES MCA 2C INJECTION HEADER FLANGE AND HEADER EAST LINE RELEASES LEA COUNTY, NEW MEXICO

			Field Screening						втех	(²						Т	PH ³	
		Sample Depth	Results	Chlorid	de ¹				5 .1.11					GRO		DRO	EXT DRO	Total TPH
Sample ID	Sample Date		Chloride PID	1		Benze	ne	Toluer	ne Ethylben	izene 1	Total Xyler	nes	Total BTEX	C ₆ - C ₁	0	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		feet bgs	ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q mg/kg	Q n	ng/kg	Q	mg/kg Q	mg/kg	Q	mg/kg Q	mg/kg Q	mg/kg
Reclamation Require	ments (NMAC 19.15.	.29.13)	-	600		10							50					100
FS-1	3/16/2023	2		48.0		<0.050		<0.050	<0.050	<	0.150		<0.300	<10.0		97.2	119	216.2
FS-1-A	3/24/2023	4		64.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		56.4	65.6	122
FS-2	3/27/2023	4		384.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-3	3/17/2023	2		96.0		<0.050		< 0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-4	3/17/2023	2		96.0		<0.050		<0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-5	3/20/2023	2		96.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-6	3/21/2023	2		32.0		< 0.050		< 0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-7	3/21/2023	2		112.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-8	3/21/2023	2		128.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-9	3/21/2023	2		80.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-10	3/22/2023	2		112.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		39.7	27.5	67.2
FS-11	3/24/2023	2		208.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		65.9	70	135.9
FS-11-A	3/28/2023	4		128.0		<0.050		<0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-12	3/24/2023	2		400.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-13	3/24/2023	2		64.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		39.9	43.1	83
FS-14	3/23/2023	2		80.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		139	112	251
FS-14-A	3/27/2023	4		176.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-15	3/23/2023	2		208.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		36.6	22.9	59.5
FS-16	3/23/2023	2		224.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		29.8	13.2	43
FS-17	3/24/2023	4		736.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-18	3/23/2023	2		32.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-19	3/23/2023	2		128.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-20	3/24/2023	2		48.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
T-7	3/28/2023	4		532.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
NSW-1	3/27/2023	2		384.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
NSW-2	3/24/2023	1		1,920		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
FS-11-N	3/27/2023	3		128.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-1	3/27/2023	2		240.0		<0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-2	3/16/2023	1		32.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-3	3/16/2023	1		16.0		< 0.050		< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-4	3/20/2023	1		48.0		< 0.050		<0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-5	3/20/2023	1		32.0		<0.050		<0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-6	3/21/2023	1		<16.0		< 0.050		<0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-7	3/21/2023	1		48.0		< 0.050		<0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-8	3/22/2023	1		64.0		< 0.050		<0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-9	3/22/2023	1		48.0		<0.050		<0.050	<0.050	<	0.150		<0.300	<10.0		69.9	48.2	118.1
ESW-9-A	3/24/2023	1		1,470		< 0.050		<0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-9-B	3/28/2023	1		192.0		<0.050		<0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-10	3/22/2023	1		48.0		< 0.050		<0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-11	3/22/2023	1		32.0		< 0.050		< 0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-12	3/22/2023	1		16.0		< 0.050		< 0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-13	3/22/2023	1		112.0		< 0.050		<0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-14	3/22/2023	1		32.0		<0.050		< 0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-15	3/23/2023	1		48.0		< 0.050		<0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-16	3/23/2023	1		16.0		<0.050		< 0.050	<0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30
ESW-17	3/23/2023	1		32.0	1	<0.050	1	< 0.050	< 0.050	<	0.150		<0.300	<10.0		<10.0	<10.0	<30

SUMMARY OF ANALYTICAL RESULTS CONFIRMATION SAMPLING - NRM1930950727 & NAPP2117456525 MAVERICK NATURAL RESOURCES MCA 2C INJECTION HEADER FLANGE AND HEADER EAST LINE RELEASES LEA COUNTY, NEW MEXICO

			Field Screening					BTI	X ²								Т	PH ³	
		Sample Depth	Results	Chloride ¹										GRO		DRC	כ	EXT DRO	Total TPH
Sample ID	Sample Date		Chloride PID	1	Benzer	ne	Toluene	Ethylbe	nzene	Total Xyl	enes	Total BTE	EX	C ₆ - C ₁	.0	> C ₁₀ -	C ₂₈	> C ₂₈ - C ₃₆	(GRO+DRO+EXT DRO)
		feet bgs	ppm	mg/kg Q	mg/kg	Q	mg/kg	Q mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q mg/kg
ESW-18	3/23/2023	1		48.0	<0.050		<0.050	< 0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
ESW-19	3/23/2023	1		16.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		35.9		21.9	57.8
ESW-20	3/23/2023	1		80.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
ESW-21	3/23/2023	1		592.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
SSW-1	3/24/2023	1		48.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
SSW-2	3/24/2023	1		48.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
SSW-3	3/24/2023	1		80.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		10.9		<10.0	10.9
SSW-4	3/24/2023	1		32.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
SSW-5	3/24/2023	1		32.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
SSW-6	3/24/2023	1		48	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-1	3/16/2023	1		32.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-2	3/16/2023	1		32.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-3	3/16/2023	1		48.0	<0.050		<0.050	< 0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-4	3/20/2023	1		144.0	<0.050		<0.050	< 0.050		<0.150		<0.300		32.5		<10.0		63.4	95.9
WSW-5	3/20/2023	1		48.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-6	3/21/2023	1		<16.0	< 0.050		<0.050	< 0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-7	3/21/2023	1		32.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-8	3/21/2023	1		32.0	< 0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-9	3/22/2023	1		48.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-10	3/22/2023	1		48.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-11	3/22/2023	1		16.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-12	3/22/2023	1		112.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		221		172	393
WSW-12-A	3/24/2023	1		16.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-13	3/22/2023	1		144.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		161		106	267
WSW-13-A	3/24/2023	1		64.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		108		71.9	179.9
WSW-13-B	3/28/2023	1		32.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-14	3/23/2023	1		160.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		511		281	792
WSW-14-A	3/24/2023	1		80.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-15	3/23/2023	1		48.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		50.6		31.4	82
WSW-16	3/23/2023	1		32.0	< 0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-17	3/23/2023	1		48.0	< 0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-18	3/23/2023	1		160.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-19	3/23/2023	1		48.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-20	3/23/2023	1		144.0	<0.050		<0.050	<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30
WSW-21	3/24/2023	1	1	32.0	<0.050		<0.050	< 0.050		<0.150		<0.300		<10.0		<10.0		<10.0	<30

NOTES:

bgs: Below ground surface

mg/kg: Milligrams per kilogram

TPH: Total Petroleum Hydrocarbons

GRO: Gasoline range organics DRO: Diesel range organics

1: Method SM4500Cl-B

2: Method 8021B 3: Method 8015M

Bold values indicate exceedance of Remediation Reclamation Requirements (NMAC 19.15.29.13)

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

May 16, 2023

APPENDIX A: C-141 FORM NRM1930950727

Received by OCD: 10/11/2019 1-54-15 PM Received by OCD: 6/6/2023 9:06:06 (AMI

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018

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Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	NRM1930950727
District RP	1RP-5779
Facility ID	fCOH0815142265
Application ID	pRM1930950218

Release Notification

Responsible Party

Responsible Party ConocoPhillips Company	OGRID 217817
Contact Name Gustavo Fejervary	Contact Telephone 432/210-7037
Contact email g.fejervary@cop.com	Incident # (assigned by OCD)
Contact mailing address 5735 SW 7000 Andrews, TX	79714

Location of Release Source

Latitude 32.80360

Longitude -103.77100

(NAD 83 in decimal degrees to 5 decimal places)

Site Name MCA-2C Injection Header	Site Type Injection Header
Date Release Discovered 10/2/19	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	28	17S	R32E	Lea

Surface Owner: State V Federal Tribal Private (Name: _

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls) 12.3	Volume Recovered (bbls) 1
Produced Water	Volume Released (bbls) 110.7	Volume Recovered (bbls) 7
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Gasket on the Header leaked on the flange valve.		

Oil Conservation Division

Incident ID	NRM1930950727
District RP	1RP-5779
Facility ID	fCOH0815142265
Application ID	pRM1930950218

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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?	
19.15.29.7(A) NMAC?	it was more than 25 bbls.	
Ves 🗌 No	((40'X50X2")+(450'X7'X3")+(118'X100'X4"))X13.57%= 123BBLS	
	13.57%= SOIL SATURATION AFTER 0.5" RAIN IN LAST 24 HRS	
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		

It was given on 10/3/19 to district 1 email address and Bradford Billings

Initial Response

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

 \checkmark The source of the release has been stopped.

 \checkmark The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name:	Title: Environmental Coordinator
Signature:	Date:10/11/19_ Telephone:432/210-7037
OCD Only	
Received by: <u>Ramona Marcus</u>	Date: <u>11/5/2019</u>

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Received by OCD: 6/6/2023 9:06:06 AMI State of New Mexico

Oil Conservation Division

	Page 31 0J 423
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

Laboratory data including chain of custody

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

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Received by OCD: 6/6/2023 9:06:06 AMI Form C-1+1 State of New Mexico		Page 32 of 425	
	Incident ID		
Oil Conservation Division	District RP		
	Facility ID		
	Application ID		
o report and/or file certain release notifications and perform or acceptance of a C-141 report by the OCD does not relieve the mediate contamination that pose a threat to groundwater, sur report does not relieve the operator of responsibility for com Title: Date:	corrective actions for rele ne operator of liability sh face water, human health pliance with any other fe	eases which may endanger ould their operations have or the environment. In deral, state, or local laws	
Date:			
	Oil Conservation Division Iven above is true and complete to the best of my knowledge o report and/or file certain release notifications and perform of acceptance of a C-141 report by the OCD does not relieve the mediate contamination that pose a threat to groundwater, sur- report does not relieve the operator of responsibility for composition	Oil Conservation Division District RP Facility ID Application ID Including ID Including ID Inclin	

Received by OCD: 6/6/2023 9:06:06 AMI Form C-141 State of New Mexico

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 			
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.		
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Signature: Date: Date: Telephone: Telephone			
OCD Only Received by:	Date		
Received by:	Date:		
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved		
Signature:	Date:		

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Page 34 of 425

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following items must be included in the closure report.		
A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
Description of remediation activities		
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regul restore, reclaim, and re-vegetate the impacted surface area to the co accordance with 19.15.29.13 NMAC including notification to the O	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.	
	Title:	
Signature: <u>Hyphymet</u>	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	

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May 16, 2023

APPENDIX B: C-141 FORM NAPP2117456525

Released to Imaging: 1/25/2024 2:25:45 PM

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Page 36 of 425

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude	

 Site Name
 Site Type

 Date Release Discovered
 API# (if applicable)

(NAD 83 in decimal degrees to 5 decimal places)

Longitude

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

Page	2
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Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name:	Title:
Signature: Kelyway	Date:
email:	Telephone:
OCD Only	
Received by: _Ramona Marcus	Date: _6/28/2021

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY	217817
600 W. Illinois Avenue	Action Number:
Midland, TX 79701	33424
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	6/28/2021

CONDITIONS

Page 38 of 425

Action 33424

Incident ID

District RP Facility ID Application ID

Page 3

Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
Field data
Data table of soil contaminant concentration data
Depth to water determination
Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
Boring or excavation logs
Photographs including date and GIS information
Topographic/Aerial maps

Laboratory data including chain of custody

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

Received by OCD: 6/6/20	23 9:06:06 MM State of New Mexico	Page 40 of 42
		Incident ID
Page 4	Oil Conservation Division	District RP
		Facility ID
		Application ID
regulations all operators an public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name: Signature: email:	re required to report and/or file certain release notifications onment. The acceptance of a C-141 report by the OCD doe igate and remediate contamination that pose a threat to gro of a C-141 report does not relieve the operator of respons Title:	f my knowledge and understand that pursuant to OCD rules and ns and perform corrective actions for releases which may endanger oes not relieve the operator of liability should their operations have roundwater, surface water, human health or the environment. In nsibility for compliance with any other federal, state, or local laws
OCD Only		
Received by:		Date:

Received by OCD: 6/6/2023 9:06:06 AM State of New Mexico

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 			
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.		
	Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility		
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Signature: Date:			
OCD Only			
Received by:	Date:		
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved		
Signature: Chud Meno	Date:		

Page 5

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following in	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certaid may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the O	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name:	Title:
Signature: By Worth	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Site Remediation Closure Report Maverick Permian, LLC MCA 2C Injection Header Flange and Header East Line Releases Incident IDs: nRM1930950727 and nAPP2117456525 May 16, 2023

APPENDIX C: SITE CHARACTERIZATION DATA



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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(c	•				2=NE : st to lar	3=SW 4=SE) ˈɡest) (NA	.D83 UTM in me	eters)	(1	n feet)	
POD Number	POD Sub- Code basin Co	ounty		Q (16 4	-	Tws	Rng	х	Y	Distance	-	Depth Water C	
RA 12721 POD2	RA	LE	1	1 4	1 28	17S	32E	615055	3630407 🌍	256	124	75	49
RA 12721 POD3	RA	LE	2	3 4	1 28	17S	32E	615417	3629979 🌍	304	115		
RA 12721 POD5	RA	LE	2	4 4	1 28	17S	32E	615650	3629961 🌍	502	130	124	6
RA 12721 POD1	RA	LE	3	2 3	3 28	17S	32E	614645	3630141 🌍	565	125		
RA 12721 POD4	RA	LE	1	1 2	2 33	17S	32E	615055	3629589 🌍	628	140		
									Avera	ge Depth to	Water:	99 f	eet
										Minimum	Depth:	75 f	eet
										Maximum	Depth:	124 f	eet
Record Count: 5													

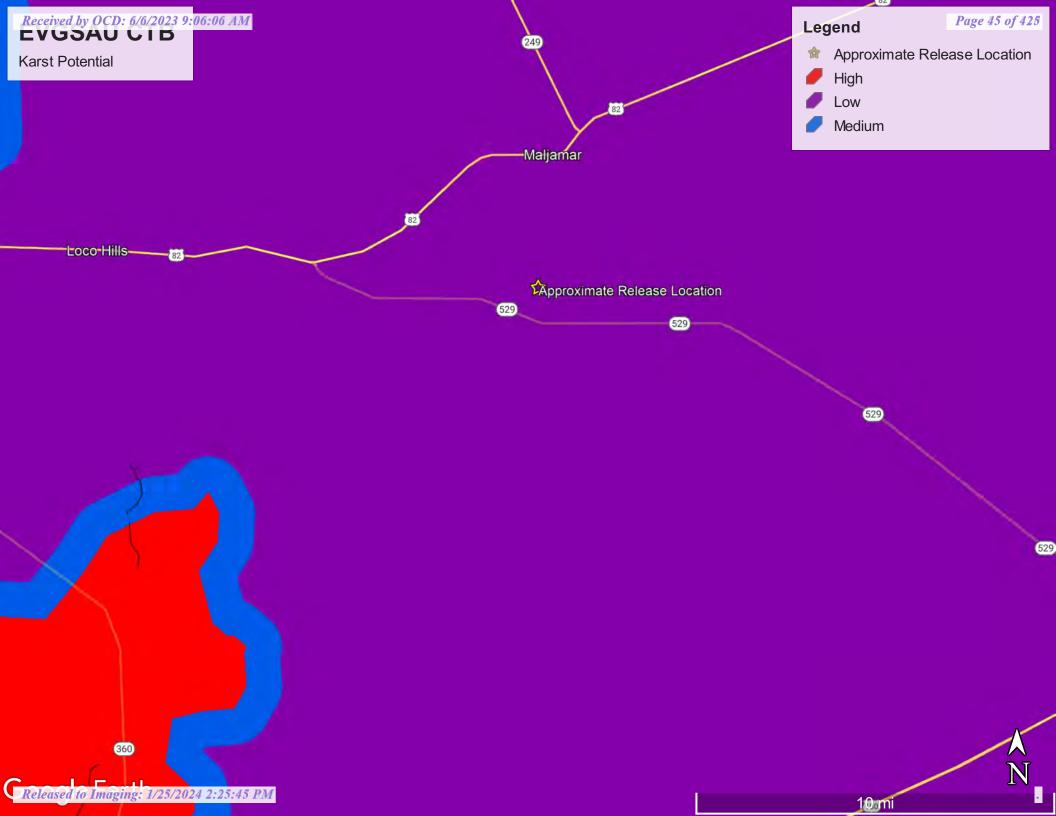
UTMNAD83 Radius Search (in meters):

Easting (X): 615207

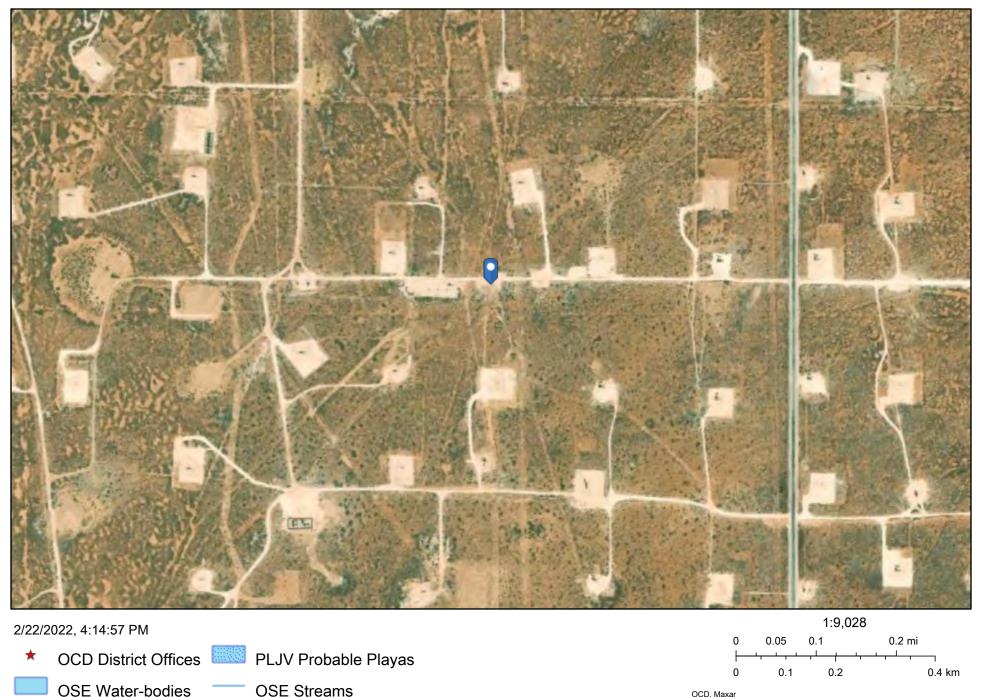
Northing (Y): 3630200

Radius: 800

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



OCD Water Bodies



New Mexico Oil Conservation Division

Released to Imaging: 1/25/2024 2:25:45 PM

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

OCD, Maxar

Site Remediation Closure Report Maverick Permian, LLC MCA 2C Injection Header Flange and Header East Line Releases Incident IDs: nRM1930950727 and nAPP2117456525 May 16, 2023

APPENDIX D: LABORATORY ANALYTICAL DATA

APPENDIX D Laboratory Analytical Data

Part 1 Shallow and Deep Soil Assessments nRM1930950727

Part 2 Shallow and Deep Soil Assessments nAPP2117456525

Part 3 Confirmation Soil Samples nRM1930950727 and nAPP2117456525

APPENDIX D Laboratory Analytical Data

Part 1 Shallow and Deep Soil Assessments nRM1930950727



October 30, 2019

JUSTIN WRIGHT Conoco Phillips - Hobbs P. O. BOX 325 Hobbs, NM 88240

RE: MCA 2C HEADER

Enclosed are the results of analyses for samples received by the laboratory on 10/25/19 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



		JUSTIN WR	-		
		P. O. BOX 3			
		Hobbs NM,	88240		
		Fax To:	(575) 297-1477		
Received:	10/25/2019			Sampling Date:	10/23/2019
Reported:	10/30/2019			Sampling Type:	Soil
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker

Sample ID: SP #1 - SURFACE (H903659-01)

COPC -LEA COUNTY NM

Project Location:

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #1 - 2' (H903659-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #2 - SURFACE (H903659-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #2 - 2' (H903659-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/28/2019	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		Conoco Ph	illips - Hobbs		
		JUSTIN W	RIGHT		
		P. O. BOX	325		
		Hobbs NM	, 88240		
		Fax To:	(575) 297-1477		
Received:	10/25/2019			Sampling Date:	10/23/2019
Reported:	10/30/2019			Sampling Type:	Soil
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY	' NM			

Sample ID: SP #3 - SURFACE (H903659-05)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27600	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #3 - 2' (H903659-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #4 - SURFACE (H903659-07)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #4 - 2' (H903659-08)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	10/28/2019	ND	416	104	400	0.00	

Sample ID: SP #5 - SURFACE (H903659-09)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/29/2019	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



		Conoco Ph	illips - Hobbs							
		JUSTIN WRIGHT								
		P. O. BOX 325								
		Hobbs NM	, 88240							
		Fax To:	(575) 297-1477							
Received:	10/25/2019			Sampling Date:	10/23/2019					
Reported:	10/30/2019			Sampling Type:	Soil					
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact					
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker					
Project Location:	COPC -LEA COUNTY	' NM								

Sample ID: SP #5 - 2' (H903659-10)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #6 - SURFACE (H903659-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #6 - 2' (H903659-12)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #7 - SURFACE (H903659-13)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #7 - 2' (H903659-14)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	10/29/2019	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		Conoco Phi	llips - Hobbs							
	JUSTIN WRIGHT									
		P. O. BOX 325								
		Hobbs NM,	88240							
		Fax To:	(575) 297-1477							
Received:	10/25/2019			Sampling Date:	10/23/2019					
Reported:	10/30/2019			Sampling Type:	Soil					
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact					
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker					
Project Location:	COPC -LEA COUNTY	NM								

Sample ID: SP #8 - SURFACE (H903659-15)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #8 - 2' (H903659-16)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #9 - SURFACE (H903659-17)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #9 - 2' (H903659-18)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #10 - SURFACE (H903659-19)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	10/29/2019	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



COPC -LEA COUNTY NM

Analytical Results For:

		Conoco Phi JUSTIN WR P. O. BOX 3	-						
	Hobbs NM, 88240								
		Fax To:	(575) 297-1477	,					
Received:	10/25/2019			Sampling Date:		10/23/2019			
Reported:	10/30/2019			Sampling Type:		Soil			
Project Name:	MCA 2C HEADER			Sampling Condition:		Cool & Intact			
Project Number:	NONE GIVEN			Sample Received By:		Tamara Oldaker			

Sample ID: SP #10 - 2' (H903659-20)

Project Location:

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #11 - SURFACE (H903659-21)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1890	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #11 - 2' (H903659-22)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #12 - SURFACE (H903659-23)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #12 - 2' (H903659-24)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/29/2019	ND	416	104	400	3.92	

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		Conoco Phi	llips - Hobbs							
		JUSTIN WRIGHT								
		P. O. BOX 325								
		Hobbs NM,	88240							
		Fax To:	(575) 297-1477							
Received:	10/25/2019			Sampling Date:	10/23/2019					
Reported:	10/30/2019			Sampling Type:	Soil					
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact					
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker					
Project Location:	COPC -LEA COUNTY	NM								

Sample ID: SP #13 - SURFACE (H903659-25)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #13 - 2' (H903659-26)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #14 - SURFACE (H903659-27)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #14 - 2' (H903659-28)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/29/2019	ND	416	104	400	3.92	

Sample ID: SP #15 - SURFACE (H903659-29)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	10/29/2019	ND	416	104	400	0.00	QM-07

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COPC -LEA COUNTY NM

Analytical Results For:

		Conoco Ph	illips - Hobbs						
	JUSTIN WRIGHT								
		P. O. BOX 325							
		Hobbs NM	, 88240						
		Fax To:	(575) 297-1477	,					
Received:	10/25/2019			Sampling Date:	10/23/2019				
Reported:	10/30/2019			Sampling Type:	Soil				
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact				
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker				

Sample ID: SP #15 - 2' (H903659-30)

Project Location:

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #16 - SURFACE (H903659-31)

Chloride, SM4500Cl-B	e, SM4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18400	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #16 - 2' (H903659-32)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #17 - SURFACE (H903659-33)

Chloride, SM4500Cl-B	B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #17 - 2' (H903659-34)

Chloride, SM4500Cl-B	DCI-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/29/2019	ND	416	104	400	0.00	

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		Conoco Ph	illips - Hobbs		
		JUSTIN W	RIGHT		
		P. O. BOX	325		
		Hobbs NM,	, 88240		
		Fax To:	(575) 297-1477		
Received:	10/25/2019			Sampling Date:	10/23/2019
Reported:	10/30/2019			Sampling Type:	Soil
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY	NM			

Sample ID: SP #18 - SURFACE (H903659-35)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #18 - 2' (H903659-36)

Chloride, SM4500Cl-B	I-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #19 - SURFACE (H903659-37)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #19 - 2' (H903659-38)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #20 - SURFACE (H903659-39)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/29/2019	ND	416	104	400	0.00	

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	Conoco	Phillips - Hobbs								
	JUSTIN WRIGHT									
	P. O. BOX 325									
	Hobbs N	IM, 88240								
	Fax To:	(575) 297-1477	7							
Received:	10/25/2019		Sampling Date:	10/23/2019						
Reported:	10/30/2019		Sampling Type:	Soil						
Project Name:	MCA 2C HEADER		Sampling Condition:	Cool & Intact						
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker						
Project Location:	COPC -LEA COUNTY NM									

Sample ID: SP #20 - 2' (H903659-40)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #21 - SURFACE (H903659-41)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #21 - 2' (H903659-42)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #22 - SURFACE (H903659-43)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #22 - 2' (H903659-44)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	10/29/2019	ND	416	104	400	0.00	

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		Conoco Phil	lips - Hobbs							
	JUSTIN WRIGHT									
	P. O. BOX 325									
		Hobbs NM,	88240							
		Fax To:	(575) 297-1477							
Received:	10/25/2019			Sampling Date:	1	10/23/2019				
Reported:	10/30/2019			Sampling Type:	9	Soil				
Project Name:	MCA 2C HEADER			Sampling Condition:	(Cool & Intact				
Project Number:	NONE GIVEN			Sample Received By:	٦	Tamara Oldaker				
Project Location:	COPC -LEA COUNTY	NM								

Sample ID: SP #23 - SURFACE (H903659-45)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #23 - 2' (H903659-46)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #24 - SURFACE (H903659-47)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #24 - 2' (H903659-48)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/29/2019	ND	416	104	400	0.00	

Sample ID: SP #25 - SURFACE (H903659-49)

Chloride, SM4500Cl-B	-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/30/2019	ND	400	100	400	3.92	

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COPC -LEA COUNTY NM

Analytical Results For:

		Conoco Ph	illips - Hobbs		
		JUSTIN WI	RIGHT		
		P. O. BOX	325		
		Hobbs NM	, 88240		
		Fax To:	(575) 297-1477	,	
Received:	10/25/2019			Sampling Date:	10/23/2019
Reported:	10/30/2019			Sampling Type:	Soil
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker

Sample ID: SP #25 - 2' (H903659-50)

Project Location:

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #26 - SURFACE (H903659-51)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #26 - 2' (H903659-52)

Chloride, SM4500Cl-B	OCI-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1740	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #27 - SURFACE (H903659-53)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #27 - 2' (H903659-54)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2019	ND	400	100	400	3.92	

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		Conoco Ph	illips - Hobbs							
		JUSTIN W	RIGHT							
		P. O. BOX 325								
		Hobbs NM	, 88240							
		Fax To:	(575) 297-1477							
Received:	10/25/2019			Sampling Date:	10/23/2019					
Reported:	10/30/2019			Sampling Type:	Soil					
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact					
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker					
Project Location:	COPC -LEA COUNTY	' NM								

Sample ID: SP #28 - SURFACE (H903659-55)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #28 - 2' (H903659-56)

Chloride, SM4500Cl-B	mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #29 - SURFACE (H903659-57)

Chloride, SM4500Cl-B	-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #29 - 2' (H903659-58)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #30 - SURFACE (H903659-59)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/30/2019	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



COPC -LEA COUNTY NM

Analytical Results For:

		Conoco Phi	illips - Hobbs						
		P. O. BOX	325						
		Hobbs NM, 88240							
		Fax To:	(575) 297-1477						
Received:	10/25/2019			Sampling Date:	10/23/2019				
Reported:	10/30/2019			Sampling Type:	Soil				
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact				
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker				

Sample ID: SP #30 - 2' (H903659-60)

Project Location:

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #31 - SURFACE (H903659-61)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #31 - 2' (H903659-62)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #32 - SURFACE (H903659-63)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #32 - 2' (H903659-64)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/30/2019	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



	Cond	oco Phillip	s - Hobbs			
	JUST	TIN WRIG	ΗT			
	P. O). BOX 325				
	Hobl	bs NM, 88	240			
	Fax	To: (575) 297-1477			
Received:	10/25/2019			Sampling Date:	10/23/20	19
Reported:	10/30/2019			Sampling Type:	Soil	
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Ir	ntact
Project Number:	NONE GIVEN			Sample Received By:	Tamara (Oldaker
Project Location:	COPC -LEA COUNTY NM					

Sample ID: SP #33 - SURFACE (H903659-65)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #33 - 2' (H903659-66)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #34 - SURFACE (H903659-67)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #34 - 2' (H903659-68)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	10/30/2019	ND	400	100	400	3.92	

Sample ID: SP #35 - SURFACE (H903659-69)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/30/2019	ND	432	108	400	3.77	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



COPC -LEA COUNTY NM

Analytical Results For:

		Conoco Phi	llips - Hobbs					
		P. O. BOX 325						
Hobbs NM, 88240								
		Fax To:	(575) 297-1477					
Received:	10/25/2019			Sampling Date:		10/23/2019		
Reported:	10/30/2019			Sampling Type:		Soil		
Project Name:	MCA 2C HEADER			Sampling Condition:		Cool & Intact		
Project Number:	NONE GIVEN			Sample Received By:		Tamara Oldaker		

Sample ID: SP #35 - 2' (H903659-70)

Project Location:

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #36 - SURFACE (H903659-71)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	10/30/2019	ND	432	108	400	3.77		

Sample ID: SP #36 - 2' (H903659-72)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #37 - SURFACE (H903659-73)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #37 - 2' (H903659-74)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	10/30/2019	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



		Conoco Pl	hillips - Hobbs						
	JUSTIN WRIGHT								
		P. O. BOX	325						
		Hobbs NM	1, 88240						
		Fax To:	(575) 297-1477	,					
Received:	10/25/2019			Sampling Date:	10/23/2019				
Reported:	10/30/2019			Sampling Type:	Soil				
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact				
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker				
Project Location:	COPC -LEA COUNTY	NM							

Sample ID: SP #38 - SURFACE (H903659-75)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #38 - 2' (H903659-76)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #39 - SURFACE (H903659-77)

Chloride, SM4500Cl-B	mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #39 - 2' (H903659-78)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #40 - SURFACE (H903659-79)

Chloride, SM4500Cl-B	B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/30/2019	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



	Conoc	o Phillips - Hobbs							
	JUSTIN WRIGHT								
	P. O. I	30X 325							
	Hobbs	NM, 88240							
	Fax To	o: (575) 297-147	77						
Received:	10/25/2019		Sampling Date:	10/23/2019					
Reported:	10/30/2019		Sampling Type:	Soil					
Project Name:	MCA 2C HEADER		Sampling Condition:	Cool & Intact					
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker					
Project Location:	COPC -LEA COUNTY NM								

Sample ID: SP #40 - 2' (H903659-80)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #41 - SURFACE (H903659-81)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #41 - 2' (H903659-82)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #42 - SURFACE (H903659-83)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #42 - 2' (H903659-84)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/30/2019	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



		Conoco Ph	nillips - Hobbs					
	JUSTIN WRIGHT							
	P. O. BOX 325							
		Hobbs NM	, 88240					
		Fax To:	(575) 297-1477					
Received:	10/25/2019			Sampling Date:	10/23/2019			
Reported:	10/30/2019			Sampling Type:	Soil			
Project Name:	MCA 2C HEADER			Sampling Condition:	Cool & Intact			
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker			
Project Location:	COPC -LEA COUNTY	ŃM						

Sample ID: SP #43 - SURFACE (H903659-85)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #43 - 2' (H903659-86)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #44 - SURFACE (H903659-87)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #44 - 2' (H903659-88)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	10/30/2019	ND	432	108	400	3.77	

Sample ID: SP #45 - SURFACE (H903659-89)

Chloride, SM4500Cl-B	mg	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	10/30/2019	ND	432	108	400	0.00	QM-07

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Celey D. Keene, Lab Director/Quality Manager



Conoco Phillips - Hobbs JUSTIN WRIGHT P. O. BOX 325 Hobbs NM, 88240 Fax To: (575) 297-1477

Received:	10/25/2019	Sampling Date:	10/23/2019
Reported:	10/30/2019	Sampling Type:	Soil
Project Name:	MCA 2C HEADER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COPC -LEA COUNTY NM		

Sample ID: SP #45 - 2' (H903659-90)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	10/30/2019	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Page 22 of 30 aboratories ARDINA

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

1	1 PV (21 2) 22-2410				
			BILL IO		ANALYSIS REQUEST
Project Manager: Justin Wright		P.O. #:	#		
Address:		Cor	Company: ConocoPhillips	lips	
City: Hobbs	St NM Zip:	# Attn:			
Phone #: 575-631-9092	Fax #:	Ado	Address:		
Project #:	Project Owner: COPC	C City:			
Project Name: MCA JL Header	ler	State:	e: Zip:		
Project Location: Leg County, NM	MM	Pho	Phone #:		
Sampler Name: Justin Wright		Fax #:	#		
FOR LAB USE ONLY	ЛР.	MATRIX	PRESERV. SAMF	SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER : DATE	TIME Chlorides	
SP#1- Surface	G	*	* 10-33	1	
5-1#ds 7	G	*	* 10-23	~	
3 SP#2- Surface	G	*	* 10-23	<	
C - C # ds	G	*	* 10-23	V	
SSP#3- Surface	G	*	* 10-33	~	
6 SP#3 - 21	G	×	* 10-23	~	
7 SPH4 - Surface	G	*	* 10-23	V	
18-1= #ds &	G	*	* 10-23	<	
J SP# 5- Surface	G	*	* 10-23	~	
10 SP#5 - 21	G G	*	* 10-23		
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Relinquished By	Time: Time:	HBY:	Called	Verbal Result:	□ No Add'I Phone #: ase provide Email address:
Relivid ustred by:	Date: Received By Time:	d By:		REMARKS:	
Delivered By: (Circle One)	Observed Temp. °C -4.9	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Stane	Standard Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C_4.4	Zo	TO.	Thermometer ID #97 Correction Factor + 0.4 °C	

URIVI-UUO R U.I

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Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

10	3/3) 393-2326 FAX (3/3) 393-24/6	93-2476			
Project Manager: Ju	Justin Wright		P.O. #:		
Address:			Company: ConocoPhillips	hillips	
City: Hobbs	St NM	Zip: #	Attn:		
Phone #: 575-631-9092	092 Fax #:		Address:		
Project #:	Project Owner:	Owner: COPC	City:		
Project Name:			State: Zip:		
Project Location:			Phone #:		
Sampler Name: Ju	Justin Wright		Fax #:		
		P. MATRIX	PRESERV. SAN	SAMPLING	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	TIME Chlorides	
11 SP#6	6 - Surface	1222	*	~	
12 sp#6-		G *	* 10-23	<	
		ۍ *	* 10-23	V	
		ം *	* 10-23	~	
	8 - Surface	G *	* 10-23	X	
-	12-21	G *	* 10-23	V	
	1 - Surface	ଜ *	* 10-23	V	
18 SP#9-	9-21	ଜ *	* 10-23	1	
19 57 #10 - ,	0 - Surface	G *	* 10-23	~	
70 SP#10 -	10 - 21	G *	* 10-23	× 1	
LEASE NOTE: Liability and Damage nalyses, All claims including those fo ervice. In no event shall Cardinal be envice. In no event shall Cardinal be	es. Cardinal's liability and client's exclusive re or negligence and any other cause whatsoeve liable for incidental or consequential damage	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed whet dunless made in writing and received by Cardinal within 30 days after completion of the appl source. In no event shall Cardinal to label by incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, available or encosed and or or added to the noncomment of sources hereinder to Cardinal researches of whether such claim is based upon any of the above stated reasons or otherwise.	tract or tort, shall be limited to the amount p g and received by CardInal within 30 days a ons, loss of use, or loss of profits incurred b laim is based upon any of the above stated	paid by the client for the Inter completion of the applicable by client, its subsidiaries, reasons or otherwise.	
Relinguished By:		Received By:	additte	Verbal Result: All Results are	□ Yes □ No Add'I Phone #: emailed. Please provide Email address:
	Time:		(
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	ne) Observed Temp. °C Other: Corrected Temp. °C	-4.9 Sample	Condition CHECKED BY: ntact (Initials)	Turnaround Time: Standard Rush Thermometer ID #97	□ Bacteria (only) S □ Cool Intact □ Yes □ Yes
		No D	Y	Correction Factor + 0.4 °C	□ Nc □ No Corrected Temp. °C

Received by OCD: 6/6/2023 9:06:06 AM

OKINI-DOD K J.C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 6/6/2023 9:06:06 AM

Company Name: ConocoPhillips	llips	ConocoPhillips	BILL TO	ANAL	ALYSIS REQUEST
Project Manager: Justin Wright	ht	q	P.O. #:		
Address:		0	Company: ConocoPhillips	S	
City: Hobbs	St NM 2	Zip: # At	Attn:		
Phone #: 575-631-9092	Fax #:	A	Address:		
Project #:	Project Owner:	COPC CI	City:		
ame: MCA JC	Header	S	State: Zip:		
	County, NM	P	Phone #:		
<u>_</u>	# `	77	Fax #:		
		MATRIX	PRESERV. SAMPLING	LING	
Lab I.D. Sam	Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	TIME Chloricles	
2) SPHII- Surface	face	*	*	<	
22 SP #11- 21		G *	* 10-23	<	
20 SP # 12 - Surface	face	G *	* 10-23	<	
12 - 21 # dS 150		G *	* 10-23	<	
as SP#13 - Surface	face	G *	* 10-23	<	
26 SP#13-21		G *	* 10-73	4	
at sp# 14-Surface	ACC	G *	* 10-23	<	
28 SPHI4- 21		G *	* 10-23	<	
29 sp#15- Surface	ace	G *	* 10-23	×	
30 5P#15- 21		G *	* 10-23		
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Relinquished, By	Date: 10-15-19 Re	Received By:	Walk w	Verbal Result: □ Yes □ No Add'I Phone #: All Results are emailed. Please provide Email address:	Add'I Phone #: de Email address:
Reiffiduishid By:	Time:	Received By Pur u	Card	REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	4.9 Sample Condition Cool Intact Cool Intact Pres	1 CHECKED BY: (Initials)	Turnaround Time: Standard Thermometer ID #97 Correction Factor + 0.4 °C	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C Ves Ves Corrected Temp. °C

Page 73 of 425

Page 24 of 30

101 East Marland, Hobbs, NM 88240

Page 74 of 425

Page 25 of 30

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by	OCD: 6/6/202.	3 9:06:06 AM	
Sam	Del	PLEAS analyse service. affiliate	

Company Name: ConocoPhillips	lillips		BILL TO		ANALYSIS REQUEST
Project Manager: Justin Wright	ght		P.O. #:		
Address:			Company: ConocoPhillips	lips	
City: Hobbs	St NM	Zip: #	Attn:		
Phone #: 575-631-9092	Fax #:		Address:		
Project #:	Project Owner:	T COPC	City:		
ame: MCA 2C	Header		State: Zip:		
	County, MM		Phone #:		
=	Jht 、		Fax #:		
		MATRIX	PRESERV. SAM	SAMPLING	
Lab I.D. San	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	TIME	
31 SPHILA- Surface	face	*	*	1	
32 Sp#16 - 21		ଜ *	* 10-23	<	
SP#17-3	face	କ *	* 10-23	<	
		ଜ *	* 10-23	V	
	face	۹ *	* 10-23	V	
-		G *	* 10-23	V	
-	face	G *	* 10-23	<	
28 59#19-21		G *	* 10-23	~	
-	face	ଜ *	* 10-23	V	
~		G *	* 10-23	V	
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Relinguished	Date: 10-10-19-19			Verbal Result:	□ Yes □ No Add'I Phone #: nailed. Please provide Email address:
Re Thuished By:	bate: Time:	Received By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C_4.9 Corrected Temp. °C_4.9	Sam	(Initials)	Turnaround Time: Standard Rush Thermometer ID #97 Correction Factor + 0.4 °C	Bacteria (only) S Cool Intact Yes Yes
		No	0		No L No Corrected Lemp. "C

Д 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 orator **D**S

Page 75 of 425

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Page 26 of 30

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ed Temp. °C. 4. 9	1e:	e	61/2010	usive remedy for atsoever shall b amages, includii es hereunder by									
4.4-		Received By:	7 Received By:	any claim arising e deemed waived ng without limitati Cardinal, regard	G	ត	G	ଜ	ଜ	G	G	G	ດ
Sample Condition Cool Intact		ed By:	ed By:	usive remedy for any claim arising whether based in contract or tort, shall be limited to the amounts faid by the elient for the nascever shall be deemed waived unless made in writing and received by Cardinal within 32 days fater completion of the applicable hamages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, zee heemedre by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	*	*	*	*	*	*	*	*	*
A CHEC				shall be limite ed by Cardina use, or loss of d upon any of	*	*	*	*	*	*	*	*	*
(Initials)		5	Show and a start	d to the amount pa al within 30 days aft profits incurred by the above stated r	10-23	10-23	10-23	10-23	10.23	10.23	10-23	10.23	10-22
Turnaround Time: Standard ☐ Bacteria (only) Sample Condition Themometer ID #97 ☐ Cool Intact Observed Temp. °C Themometer ID #97 ☐ Yes Yes Correction Factor + 0.4 °C ☐ Nc Nc Corrected Temp. °C		REMARKS:	Verbal Result:	ie applicable s,			V	V IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII			V	×	

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Received by OCD: 6/6/2023 9:06:06 AM

FA 5

SP#25-Surface

SP#25-2'

57#23-21 59# 23 - Surface SPH 22 - 2'

SP#22 - Surface 25421-21

SPH21-Surface

ର ର ର ର ର ର ର (G)RAB OR (C)OMP

* SOIL

*

10-23

10-22

OIL SLUDGE

OTHER

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chlorides

SPH 24-Surface

20 # 24 - 2'

PLEASE NOTE: Liability and Damages. Cardinal's liabi analyses, All claims including those for negligence and service. In no event shall Cardinal be liable for incident	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client's torthe analyses. All claims including those for negligence and any other cause whatsoever shall be dimed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be doned waived unless made in writing and received by Cardinal within 30 days after completion of the applicable as service. In no event shall Cardinal beide for incident or consequential damages, including without limitabile, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be be for incident or consequence to contract or variant constraints exclusive transitions to an any of the apply estible to the environment of the apply and the materiane to variant the applicable to the apply assisted reasons or contentions.	ed in contract or fort, shall be limited to the amount pa in writing and received by Cardinal within 30 days at nterruptions, loss of use, or loss of profils incurred by ne such taim is based upon any of the above stated n	er completion of the applicable client, its subsidiaries. aasons or ofterwise.
Relinquished By:	Little 1/19 Received By:	of the man	Verbal Result:
Relinduished By:	Date: Received By:	he work in	REMARKS:
	Time:		
Delivered By: (Circle One)	Observed Temp. °C-4.9 Samp	Sample Condition CHECKED BY: Cool Intact (Initials)	Turnaround Time: Standard I Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C_4/4	Pres Pres To.	Thermometer ID #97 Correction Factor + 0.4 °C

Address:

Project Manager: Company Name:

Justin Wright ConocoPhillips

City:

Hobbs

575-631-9092

Fax #:

St NM

Zip:

#

Attn:

Address:

Company:

ConocoPhillips

P.O. #:

BILL

10

ANALYSIS

REQUEST

Project Owner:

COPC

State: City:

Zip:

Project Location:

Sampler Name:

Justin Wright

MATRIX

PRESERV

SAMPLING

Fax #: Phone #:

Lea County, Nim

FOR LAB USE ONLY

4903659

Lab I.D.

Sample I.D.

CONTAINERS GROUNDWATER

WASTEWATER

Project Name: MCA JC Header

Project #: Phone #:

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Project Manager: Company Name:

Justin Wright ConocoPhillips

P.O. #:

BILL TO

ANALYSIS REQUEST

Company:

ConocoPhillips

Address:

City: Sampler Name: Project Name: MCA 2C Header Project Location: Project #: Phone #: Relinquished By: service. In no event shall Cardinal be fiable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable Relinquishe 4903659 Sampler - UPS - Bus - Other: filiates or successors arising out of or related to the performan LEASE NOTE: FOR LAB USE ONLY Delivered By: (Circle One) Lab I.D. Hobbs 54 S 8 575-631-9092 6 0 20-21 2-58442 SP# 29-Surface SPH 2/2-21 SP#30 - Surface 2- 3P # ds- 2, SP#28-Surface 57#27-21 SPH 27 - Surface SPH 26- Surface Lea County, Nm Justin Wright Sample I.D iability and client's exclusive Corrected Temp. °C Observed Temp. °C Fax #: Project Owner: Time: Date: St NM iedy for any cla -4.4 Zip: ର ର ର (G)RAB OR (C)OMP 4.9 G G G ର ର ର Received By: Received By: COPC # CONTAINERS GROUNDWATER Sample Condition Cool Intact Tes Tes WASTEWATER MATRIX SOIL * * * * * * # * * * * OIL SLUDGE State: City: Phone #: Attn: OTHER : Fax #: Address: ACID/BASE PRESERV ICE / COOL CHECKED BY: * * * * * * * * * * 10 OTHER : (Initials) Zip: 10-23 10-23 10-23 10-23 10-23 10-23 10-23 10-23 10-23 10-23 DATE SAMPLING paid by the client for the All Results are emailed. Please provide Email address: Thermometer ID #97 Correction Factor + 0.4 °C Turnaround Time: REMARKS: erbal Result: TIME < 5 Chlorides Yes Standard Rush O No Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes Nc No Corrected Temp. °C

Received by OCD: 6/6/2023 9:06:06 AM

+ Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com

Corrected Temp. °C

Released to Imaging: 1/25/2024 2:25:45 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name:	ConocoPhillips			BILL	LTO			ANALYSIS REC	REQUEST
Project Manager:	Justin Wright		P.O.			_			
Address:			Cor	Company:	ConocoPhillips	sdi			
City: Hobbs	St NM	Zip:	# Attn:	1					
Phone #: 575-63	575-631-9092 Fax #:		Adc	Address:					
Project #:	Project Owner:		COPC City:	n					
Project Name:	MCA & C. Header	ŋ	State:		Zip:				
Project Location:	Leg County, NM		Phone	one #:			_		
Sampler Name:	Wright		Fax #:	#					
FOR LAB USE ONLY		P.	MATRIX	PRESERV.	SAMP	SAMPLING			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE	TIME Chlorides			
61 5	SP#31- Sulface	-		*	10-23	7			
62 51		G	*	*	10-23	<			
-	SP# 32- Surface	ດ	*	*	10-23	~			
12 49		G	*	*	10-23	~			
5	SPH33-Surface	G	*	*	10-23	~			
66 51	57433-21	G	*	*	10-23	<			
	SP#34- Surface	ଜ	*	*	10-23	V			
-	52#34-21	ດ	*	*	10-23	1			
	SP#35-Surface	G	*	*	10-23				
PLEASE NOTE: Liability and D analyses. All claims including th service. In no event shall Cardil	TU 57# 35- 7' G * 10-23 V PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	G any claim aris e deemed waii ng without limi	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	10-23 o the amount pai ithin 30 days afte	d by the client for the r completion of the applicabil plient, its subsidiaries,		-	-
Relinquished By	Date: 10-25-19	-	Received By:	Sall	e i	Verbal Result: All Results are em	□ Yes □ No iailed. Please pr	□ Yes □ No Add'l Phone #: emailed. Please provide Email address:	
Rey Haulshed By:	bate: Time:	Received	Wed By: In Co			REMARKS:			
Delivered By: (Circ Sampler - UPS - Bu	(Circle One) Observed Temp. °C - Bus - Other: Corrected Temp. °C	-4.4	Sample Condition Cool Intact	CHECKED BY: (Initials)	ED BY: ials)	Turnaround Time: Thermometer ID #97 Correction Factor + 0.4 °C	Standard Rush 0.4 °C		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Ves Yes

Page 29 of 30 aboratories D J L

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	1110			
Company Name: ConocoPhillips		BILL TO		ANALYSIS REQUEST
Project Manager: Justin Wright		P.O. #:		
Address:		Company: ConocoPhillips	hilips	
City: Hobbs St NM	Zip: #	Attn:		
Phone #: 575-631-9092 Fax #:		Address:		
Project #: Project Owner:	Ier: COPC	City:		
Project Name: MCA 2C Header		State: Zip:		
Project Location: Leg County, NM		Phone #:		
Sampler Name: Justin Wright		Fax #:		
FOR LAB USE ONLY	P. MATRIX	PRESERV. SAN	SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	TIME Chlorides	
71 SP # 36 - Surface	*	*	V	
72 SP#36-2'	G *	* 10-23	<	
73 SP# 37 - Surface	ଜ *	* 10-73	V	
74 57# 37 - 21	ର *	* 10-73	~	
75 SP#38- Surface	ଜ *	* 10-23	V	
76 SP# 38-2'	ଜ *	* 10-23	5	
77 SP #39-Surface	ଜ *	* 10-23	~	
76-9EHQ2 37	ର *	* 10-23	×.	
79 SP# 40-Surface	ଜ *	* 10-23		
$\bigotimes S \not > \not + \not + p - a'$ PLEASE NOTE: Liability and Damages Cardinate liability and client's exclusive remerty (G *	* 10-23	ald hy the slient for the	
TCENED for Licensing wind damages, caluncies induity and cleants exclusive entracy to any cleant arising writter classes in contract or toric, shall be induced for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal which 30 days after completion of the applicable service. In no event shall be liable for incidental or consequental damages, including which any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal which 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of uses, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	or any cann ansing whether based in contract or to be deemed waived unless made in writing and ress dring without limitation, business interruptions, loss o by Cardinal, regardless of whether such claim is bas	c) crore, snall be limited to the amount, paid by the client for the rd received by Cardinal within 30 days after completion of the loss of use, or loss of profils incurred by client, its subsidiarie in is based upon any of the above stated reasons or otherwise	adu by une cuent for the fer completion of the applicable y client, its subsidiaries, reasons or otherwise.	
Relinquished By: Date: 10-5-19	Received By:	Malla	Verbal Result:	Add'l Phone #: de Email address:
Velindulshed By: Voate: Time:	Received By:		REMARKS:	
Delivered By: (Circle One) Observed Temp. °C _49	Sa	tion CHECKED BY: (Initials)	Turnaround Time: Standard	1
Sampler - UPS - Bus - Other: Corrected Temp. °C_4.4		Y	1.00	

Sampler - UPS - Bus - Other: FORM-000 7 3.0

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Corrected Temp, °C

CARDINAL Laboratories

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	2: ConocoPhillips					BILL TO			A	ANALYSIS REC	REQUEST	
Project Manager:	r: Justin Wright				P.O. #:				_	- 1		
Address:					Company:	ConocoPhillips	llips					
City: Hobbs	S	St NM Zip:	<u>p</u>	#	Attn:							
Phone #: 575	575-631-9092 Fa	Fax #:			Address:							
Project #:	Pr	Project Owner:	COPC	PC	City:							
Project Name:	MCH 2C Header				State:	Zip:						
Project Location:	n: Lea County, Nm				Phone #:							
Sampler Name:	Justin Wright				Fax #:							
FOR LAB USE ONLY				MATRIX	PRESERV		SAMPLING					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE: ICE / COOL	OTHER :	TIME	Chlorides				
18	SP#41 - Surface	G	-	*		10-23		~				
28	SPH41-2'	G	47	*	*	10-23		~				
30	SP#42- Surface	G	u,	*	*	10-23		5				
24	12 - 24 42- 21	G	4,	*	*	10-23		A				
23	SP# 413-Surface	G	u,	*	*	10-23		<				
38	12 - EH#ds	G	47	*	*	10-23		V				
28	SP#44-Surface	G		*	*	10-23		Y				
8	2 444-21	G		*	*	10-23		V				
23	SPH 45-Surface	G		*	*	10-23		Y				
90		G		*	*	10-23		V				
PLEASE NOTE: Liability a analyses. All claims includ service. In no event shall C affiliates or successors aris	PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any diam arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All cliains including those for negligence and any other cause whatsoever shall be demad waived unless made in whiting and received by Gardinal within 30 days after completion of the applical service. In no event shall Cardinal be liable for incidental or consequents thanges, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such cliain is based upon any of the above stated reasons or otherwise.	clusive remedy for any cla chatsoever shall be deem damages, including with ices hereunder by Cardin	aim arising ted waivec out limitati al, regard	y whether based in cont d unless made in writing ion, business interruptio less of whether such cli	act or tort, shall be lim and received by Cardi ns, loss of use, or loss aim is based upon any	ted to the amount pai nal within 30 days afte of profits incurred by o of the above stated re	d by the client for t or completion of the client, its subsidiari asons or otherwise	e applicable es, e.				
Relinquished	Date 1D Time	10-75-19 R	eceiv	Received By:	Alla	Sol	Verbal Result: All Results are er	ult: are ei	□ No A Please provide	Yes No Add'I Phone #: nailed. Please provide Email address:		
Relinquished By:			eceive	Received By:		4	REMARKS:					
Y	Th	Time:										

Received by OCD: 6/6/2023 9:06:06 AM

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Observed Temp. °C -4.9 Corrected Temp. °C - 4.4

Sample Condition Cool Intact Yes Yes No No No

> CHECKED BY: (Initials)

> > Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition Cool Intact Observed Temp. °C || Yes || Yes || No || No Corrected Temp. °C

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6

Thermometer ID #97 Correction Factor + 0.4 °C

CRIVI-000 R U.



ANALYTICAL REPORT March 24, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group: Samples Received: Project Number: Description: Site: Report To:

L1199114
03/13/2020
212C-MD-02119
COP MCA 2-C Header Release
LEA COUNTY, NEW MEXICO
Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

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

Entire Report Reviewed By: Chu, faph June

Chris McCord Project Manager

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

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PROJECT: 212C-MD-02119

SDG: L1199114

DATE/TIME: 03/24/20 18:17

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	SDC.	

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SDG: L1199114

DATE/TIME: 03/24/20 18:17

PAGE: 3 of 109

SAMPLE SUMMARY

ONE LAB. NAT Rage 83 of 25

Ср

Тс

Ss

Cn

Sr

Qc

Gl

Â

Sc

AH-4E (0-1') L1199114-01 Solid			Collected by Adrian	Collected date/time 03/03/20 11:00	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:10	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 00:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 00:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 21:53	FM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
AH-4E (3-4') L1199114-02 Solid			Adrian	03/03/20 11:10	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:20	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 13:18	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 00:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 22:05	FM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-4W (0-1') L1199114-03 Solid			Adrian	03/03/20 11:20	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:29	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 01:09	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 01:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 21:40	FM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-4W (3-4') L1199114-04 Solid			Adrian	03/03/20 11:30	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:39	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 13:39	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 01:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 22:04	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
T-5 (1-2') L1199114-05 Solid			Adrian	03/05/20 11:50	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444779	1	03/18/20 02:57	03/18/20 20:48	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 01:50	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 01:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 21:00	KME	Mt. Juliet, TN

PROJECT: 212C-MD-02119

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T-5 (3-4') L1199114-06 Solid			Collected by Adrian	03/05/20 12:00	03/13/20 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 10:55	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 02:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1.04	03/16/20 08:41	03/17/20 02:13	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 21:13	KME	Mt. Juliet, TN
T-5 (5-6') L1199114-07 Solid			Collected by Adrian	Collected date/time 03/05/20 12:10	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	5	03/18/20 08:48	03/18/20 11:14	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 13:59	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 02:33	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 20:35	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
T-5 (7-8') L1199114-08 Solid			Adrian	03/05/20 12:20	03/13/20 08:	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445642	1	03/19/20 01:41	03/19/20 01:48	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 11:23	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 02:52	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 02:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 20:48	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-5S (0-1') L1199114-09 Solid			Adrian	03/05/20 13:00	03/13/20 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 11:33	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 03:12	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 03:13	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	20	03/17/20 16:06	03/17/20 23:32	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
AH-5S (3-4') L1199114-10 Solid			Adrian	03/05/20 13:10	03/13/20 08	:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 11:42	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 14:20	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 03:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	20	03/17/20 16:06	03/17/20 23:57	KME	Mt. Juliet, TN

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AH-5E (0-1') L1199114-11 Solid			Collected by Adrian	Collected date/time 03/05/20 11:00	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 11:52	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 03:53	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 03:54	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 22:18	FM	Mt. Juliet, TN
AH-5E (3-4') L1199114-12 Solid			Collected by Adrian	Collected date/time 03/05/20 11:10	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 12:01	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 14:41	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 04:14	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 19:46	FM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
AH-5W (0-1') L1199114-13 Solid			Adrian	03/05/20 11:20	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 12:49	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 04:34	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 04:35	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/18/20 19:59	FM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
AH-5W (3-4) L1199114-14 Solid			Adrian	03/05/20 11:30	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 12:58	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 04:55	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 04:55	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 21:26	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	
T-6 (1-2') L1199114-15 Solid			Adrian	03/05/20 11:50	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	5	03/18/20 08:48	03/18/20 13:08	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 05:15	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 05:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	20	03/17/20 16:06	03/18/20 00:15	KME	Mt. Juliet, TN

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			Collected by Adrian	Collected date/time 03/05/20 12:20	Received da 03/13/20 08:	
T-6 (9-10') L1199114-16 Solid			Auton	03/03/20 12.20	03/13/20 06.	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:17	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445448	1	03/16/20 08:41	03/17/20 15:01	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 05:35	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445151	1	03/17/20 16:06	03/17/20 21:38	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-6E (0-1') L1199114-17 Solid			Adrian	03/05/20 13:00	03/13/20 08:	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time	1/20	
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:27	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 07:01	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 05:56	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 23:30	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-6E (3-4') L1199114-18 Solid			Adrian	03/05/20 13:10	03/13/20 08:	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445643	1	03/19/20 01:30	03/19/20 01:36	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:36	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 07:22	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 06:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 21:32	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-6W (0-1') L1199114-19 Solid			Adrian	03/05/20 11:00	03/13/20 08:	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:46	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 07:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 06:36	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 21:45	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-6W (3-4') L1199114-20 Solid			Adrian	03/05/20 11:10	03/13/20 08:	:00
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time	-	
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 13:55	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445119	1	03/16/20 08:41	03/17/20 08:03	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445122	1	03/16/20 08:41	03/17/20 06:56	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 21:57	KME	Mt. Juliet, TN

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AH-7W (0-1') L1199114-21 Solid			Collected by Adrian	Collected date/time 03/05/20 11:20	Received dat 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 14:24	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 01:23	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 15:22	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 07:45	KME	Mt. Juliet, TN
AH-7W (3-4') L1199114-22 Solid			Collected by Adrian	Collected date/time 03/05/20 11:30	Received dat 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	5	03/18/20 08:48	03/18/20 14:34	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 01:44	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 15:41	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 23:56	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	
T-7 (1-2') L1199114-23 Solid			Adrian	03/05/20 11:50	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	5	03/18/20 08:48	03/18/20 14:43	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 02:04	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 16:00	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 22:40	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received dat	te/time
T-7 (17.5') L1199114-24 Solid			Adrian	03/05/20 13:00	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 14:53	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 02:25	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 16:19	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 07:19	KME	Mt. Juliet, TN
AH-7E (0-1') L1199114-25 Solid			Collected by Adrian	Collected date/time 03/05/20 13:10	Received dat 03/13/20 08:	
		D:1 ::				
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1444780	1	03/18/20 08:48	03/18/20 15:02	GB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 18:13	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 16:38	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 00:59	KME	Mt. Juliet, TN

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data Salids by Michola 2540 G 2011 Optimize Violate Campany by Michola 80750/0740 Wiolate Campany by M	AH-7E (3-4') L1199114-26 Solid			Collected by Adrian	Collected date/time 03/06/20 11:00	Received da 03/13/20 08:	
Weit Chemistry by Michole 300.0 Weit 44521 1 0378/20 22.0 0378/20 085.4 AUM Mit. Juliet. Valuitic organic Compounds (GC) by Michol 8050/600 Weit 45229 1 0378/20 085.9 0371/20 085.4 ADM Mit. Juliet. Semi-Valuitic organic Compounds (GC) by Michol 8050 Weit 4529 1 0378/20 08.9 0371/20 08.54 ADM Mit. Juliet. AH-SN (0-1') L1199114-27 Solid Collected by Michol 30 00 Adalyst	Method	Batch	Dilution	-		Analyst	Location
Value Cogain: Compounds (CC) by Method 805GR0 W0144525 1 037620 08.59 03770 08.54 ADM ML. Julet, ML. Julet, Sami-Value Cogain: Compounds (CC) by Method 8055 ADM ML. Julet, ML. Julet, Sami-Value Cogain: Compounds (CC) by Method 8055 ADM ML. Julet, ML. Julet, Advisor AH-SN (0-1') L1199114-27 Solid Collected by Advisor Collected by Advisor Collected by Advisor Collected by Advisor Collected by Advisor Advisor Advisor Advisor Collected diabilities Advisor Collected by Advisor Collected by Advisor Collected by Advisor Advisor Advisor Advisor Advisor Collected by Advisor Advisor <	Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Valiable Organic Compounds (CCMS) by Method 87508 WCM45750 1 039670 0659 037707 1657 BMR M. Juliet, M. Juliet, Semi-Valcalle Organic Compounds (CG) by Method 8055 MCM45755 1 039720 0641 023020 00.08 KME M. Juliet, M. Juliet, Advisor AH-SN (0-1) L199114-27 Solid Batch Dilution Preparation data/time Analysis Analysis Analysis Analysis Analysis Lacator data/time Coll School Sch	Wet Chemistry by Method 300.0	WG1445291	10	03/17/20 22:10	03/18/20 00:06	ELN	Mt. Juliet, TN
Semi-Volutile Organic Compounds (GC) by Method 8015 WG1446556 1 0.319/20 06:41 0.320/20 00:08 KM Mt. Juliet, Mt. Juliet, 2006/20 11:20 AH-SN (0-1) L1199114-27 Solid Collected 4by Adman Collected 4by Adman Collected 4by Collected 4by Adman Analysis Analysis Analysis Analysis Collected 4be/bine Total Solids by Method 250 G 2011 WG1445647 1 0.219/20 01:21 0.319/20 01:27 KBC Mt. Juliet, Wet Chemistry by Method 300.0 WG1445647 1 0.219/20 01:21 0.319/20 01:27 KBC Mt. Juliet, Wet Chemistry by Method 300.0 WG144559 1 0.319/20 01:21 0.319/20 01:27 KBC Mt. Juliet, Wet Chemistry by Method 300.0 WG144559 1 0.319/20 01:21 0.317/20 01:21 0.317/20 01:21 0.317/20 01:21 0.317/20 01:21 0.317/20 01:21 WG144559 0.319/20 06:41 0.319/20 00:51 EN Mt. Juliet, Wet Admine Mt. Juliet, WG144559 0.317/20 01:20 WG14459 0.317/20 01:20 WG14459 AH-SN (3-4') L1199114-28 Solid WG144559 S0 317/20 72:10 0.317/20 72:10 0.317/20 01:20 Wd	Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 06:54	ADM	Mt. Juliet, TN
AH-8N (0-1) L1199114-27 Solid Collected by Arrian Collected by Collected	Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 16:57	BMB	Mt. Juliet, TN
AH-8N (0-1') L1199114-27 Solid Advisin 0306/201120 0315/20 08:00 Method Eatch Dilution Preparation Analysis Analysis Analysis Analysis Analysis Analysis Analysis Location Total Solids by Method 300.0 W61445647 1 03712/0 02:10 03718/20 00:55 ELN ML Juliet, J	Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 00:08	KME	Mt. Juliet, TN
An Index (Us1) Entrem (Us1) Entrem (Us1) Endet (Us1) Analysis Anal				-			
date Nume date Nume Total Solids by Method 3200 S031922 01:21 KBC ML Jallet, WG1445547 0.371922 01:27 KBC ML Jallet, ML Jallet, WG144552 Volatile Organic Compounds (GC) by Method 80150/GRO WG1445229 1 0.37622 0.855 0.371720 7176 BMB ML Jallet, ML Jallet, WG1445259 1 0.37622 0.855 0.371720 7176 BMB ML Jallet, ML J	AH-8N (0-1') L1199114-27 Solid			Aunan	05/00/20 11.20	03/13/20 00.	.00
Wet Chemistry by Method 300.0 WG1445291 1 0.317/20 22:10 0.318/20 00:15 ELN Mt. Juliet, Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 WG1445100 1 0.316/20 08:59 0.317/20 77:6 BMB Mt. Juliet, Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 Collected by MG146556 Collected by Adrian Collected date/time Q306/20 11:30 Received date/time Q306/20 01:30 Received date/time Q306/20 01:30 Collected date/time Q306/20 01:35 Collected date/time Q306/20 01:35 Collected date/time Q306/20 01:35 Collected date/time Q306/20 01:35 Mt. Juliet, Withid Q10:00 Volatile Organic Compounds (GC) by Method 8050/GRO WG1445259 1 0.316/20 08:59 0.317/20 07:35 ADM Mt. Juliet, Withid Q10:00 Mt. Juliet, Withid Q10:00 WG1445259 1 0.316/20 08:59 0.317/20 0	Method	Batch	Dilution	•		Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO WG 445120 1 0316/20 08:59 03/17/20 07:14 ADM Mt. Juliet, Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 Mt Juliet, WG 144525 1 0316/20 08:59 03/17/20 07:16 BMB Mt. Juliet, Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 Collected Juliet, Adrian Collected date/time Received date/time AH-BN (3-4') L1199114-28 Solid Batch Dilution Preparation Analysis Analysis Analysis Analysis Location Method Batch Dilution Preparation Analysis Method 300.0 WG 1445291 S 03/17/20 07:35 ADM Mt. Juliet, Mt. Juliet, Jul	Total Solids by Method 2540 G-2011	WG1445647	1	03/19/20 01:21	03/19/20 01:27	KBC	Mt. Juliet, TN
Volatile Organic Compounds (GCMS) by Method 82608 WG1446525 1 0376/20 08:59 0377/20 17:16 BMB Mt. Juliet, AH-SN (3-4') L1199114-28 Solid Collected by Adrian Collected date/time 0306/20 11:30 Received date/time 0306/20 11:30 Received date/time 0376/20 08:59 Analysis date/time Analysis date/time Analysis date/time Analysis date/time Analysis date/time Analysis date/time Collected date/time Received date/time 0379/20 00:56 0379/20 00:56 0379/20 00:56 Collected date/time 0379/20 00:56 Collected date/time Col	Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 00:15	ELN	Mt. Juliet, TN
Semi-Volutile Organic Compounds (GC) by Method 8015 WG1446556 1 0.3/19/20 06.41 0.3/19/20 23.05 KME Mt. Juliet, AH-8N (3-4') L1199114-28 Solid Collected Justifier Collected date/time Received date/time 03/08/20 11:30 03/13/20 08:00 Method Batch Dilution Preparation Analysis Analysis Analysis Analysis Mt. Juliet, VeltAbile Organic Compounds (GC) by Method 8015D/GR0 WG1445291 5 03/17/20 02:10 03/18/20 00:24 ELN Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GR0 WG1445259 1 03/16/20 08:59 03/17/20 07:35 BMB Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015D WG144556 1 03/19/20 06:41 03/12/20 07:32 KME Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015D WG144556 1 03/19/20 06:41 03/12/20 07:32 KME Mt. Juliet, T-8 (1-2') L1199114-29 Solid Mithod Batch Dilution Preparation Analysis Analysis Location Total Solids by Method 300.0	Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 07:14	ADM	Mt. Juliet, TN
AH-8N (3-4') L1199114-28 Solid Collected by Adrian Collected date/time 03/06/20 11:30 Received date/time 03/06/20 18:30 Received date/time 03/06/20 18:30 Method Batch Dilution Preparation date/time Analysis Analysi Location date/time Total Solids by Method 2540 G-2011 WG1445648 1 03/07/20 07:35 ADM Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG144529 5 03/07/20 07:35 ADM Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445259 1 03/07/20 07:35 ADM Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 WG1445259 1 03/07/20 07:32 KME Mt. Juliet, T-8 (1-2') L1199114-29 Solid Collected by Adrian Collected by 03/07/20 07:32 Collected date/time 03/07/20 07:32 RME Mt. Juliet, Total Solids by Method 2540 G-2011 WG1445648 1 03/07/20 07:34 Received date/time 03/07/20 07:34 Received date/time 03/07/20 07:34 RME Mt. Juliet, Total Solids by Method 2540 G-2011 WG1445648 1 03/07/20 07:34 RM M	Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 17:16	BMB	Mt. Juliet, TN
AH-8N (3-4') L1199114-28 Solid Adrian 03/06/20 11:30 03/13/20 08:00 Method Batch Dilution Preparation date/time Analysis Method Mit Juliet, Vieitation (Git Sing Method 250 05) Git Mit Juliet, Analysis Analysis Analysis Analysis Analysis Analysis Method Git Mit Juliet, Mit Juliet	Semi-Volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/19/20 23:05	KME	Mt. Juliet, TN
date/time date/time Total Solids by Method 2540 G-2011 WG1445548 1 03/19/20 00:56 03/19/20 01:04 KBC Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445291 5 03/17/20 07:35 ADM Mt. Juliet, Volatile Organic Compounds (GC) by Method 8260B WG1445556 1 03/16/20 08:59 03/17/20 17:35 BMB Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 WG1445556 1 03/19/20 06:41 03/20/20 07:32 KME Mt. Juliet, T-8 (1-2') L1199114-29 Solid Collected by Collected date/time Received date/time date/time <t< td=""><td>AH-8N (3-4') L1199114-28 Solid</td><td></td><td></td><td>-</td><td></td><td></td><td></td></t<>	AH-8N (3-4') L1199114-28 Solid			-			
Tatal Solids by Method 2540 G-2011 WG1445648 1 03/19/20 00:56 03/19/20 01:04 KBC Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445291 5 03/17/20 22:10 03/18/20 00:24 ELN Mt. Juliet, Volatile Organic Compounds (GC) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 17:35 BMB Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 17:35 BMB Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8260B WG1445556 1 03/16/20 08:59 03/17/20 17:35 BMB Mt. Juliet, T-8 (1-2') L1199114-29 Solid Collected by Collected date/time Received date/time 03/06/20 11:50 03/12/20 00:50 03/19/20 00:50 03/19/20 00:50 03/19/20 00:50 03/19/20 00:50 Collected by Collected by Collected 02/00 00:56 03/19/20 00:54 ELN Mt. Juliet, Total Solids by Method 2540 G-2011 WG1445591 5 03/17/20 22:10 03/18/20 00:34 ELN Mt. Juliet, Volatile Orga	Method	Batch	Dilution	•	,	Analyst	Location
Wet Chemistry by Method 300.0 WG1445291 5 03/17/20 03/18/20 00:24 ELN Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445120 1 03/16/20 08:59 03/17/20 07:35 ADM Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015 WG1445259 1 03/19/20 06:41 03/20/20 07:32 KME Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 WG1446556 1 03/19/20 06:41 03/20/20 07:32 KME Mt. Juliet, T-8 (1-2') L1199114-29 Solid Collected by Collected date/time Received date/time 03/16/20 03/17/20 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20 08:00 03/18/20<							
Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445120 1 03/16/20 08:59 03/17/20 07:35 ADM Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8205 WG1445259 1 03/16/20 08:59 03/17/20 07:35 BMB Mt. Juliet, T-8 (1-2') L1199114-29 Solid Collected by Collected date/time Received date/time Received date/time Method Batch Dilution Preparation Analysis Analysis Analysis Location Total Solids by Method 300.0 WG1445259 1 03/16/20 08:59 03/17/20 07:35 BMB Mt. Juliet, Valatile Organic Compounds (GC) by Method 8015D/GRO Batch Dilution Preparation Analysis Analysis Analysis Location Valatile Organic Compounds (GC) by Method 8015D/GRO WG1445660 1 03/16/20 08:59 03/17/20 17:24 DWR Mt. Juliet, Valatile Organic Compounds (GC) by Method 8015D/GRO WG1445555 20 03/17/20 06:41 03/20/20 00:34 ELN Mt. Juliet, Valatile Organic Compounds (GC) by Method 8015 WG1445555 1 03/17/20 06:41 03/20/20 00:228 KME Mt. Juliet,							Mt. Juliet, TI
Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 17:35 BMB Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 WG1446556 1 03/19/20 06:41 03/20/20 07:32 KME Mt. Juliet, T-8 (1-2') L1199114-29 Solid Collected by Collected date/time Received date/time 03/06/20 11:50 03/13/20 08:00 Method Batch Dilution Preparation Analysis Analysis Analysis Location Total Solids by Method 2540 G-2011 WG1445648 1 03/17/20 00:56 03/18/20 00:34 ELN Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445291 5 03/17/20 17:20 18:34 DWR Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8015D/GRO WG1445259 1 03/16/20 08:59 03/17/20 17:54 BMB Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 WG1445556 20 03/19/20 06:41 03/06/20 12:00 03/13/20 08:00 T-8 (3-4') L1199114-30 Solid WG1445565 20 03/19/20 06:41 03/19/20 00							
Semi-Volatile Organic Compounds (GC) by Method 8015 WG1446556 1 03/19/20 06:41 03/20/20 07:32 KME Mt. Juliet, T-8 (1-2') L1199114-29 Solid Collected by Adrian Collected by Adrian Collected date/time 03/06/20 11:50 Received date/time 03/13/20 08:00 Method Batch Dilution Preparation date/time Analysis Analysi Location date/time Total Solids by Method 2540 G-2011 WG1445648 1 03/19/20 00:56 03/19/20 00:34 ELN Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445660 1 03/16/20 08:59 03/17/20 18:34 DWR Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8015D/GRO WG1445656 20 03/19/20 06:41 03/20/20 02:28 KME Mt. Juliet, Semi-Volatile Organic Compounds (GC/MS) by Method 8015 WG1446556 20 03/19/20 06:41 03/20/20 02:28 KME Mt. Juliet, T-8 (3-4') L1199114-30 Solid Solid Solid Preparation date/time Analysis Analysis Analysis Location date/time Total Solids by Method 2540 G-2011 WG1445648							
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T-8 (1-2') L1199114-29 Solid Adrian 03/06/20 11:50 03/13/20 08:00 Method Batch Dilution Preparation date/time Analysis Analysis Analysis Location date/time Total Solids by Method 2540 G-2011 WG1445648 1 03/19/20 00:56 03/19/20 00:34 ELN Mt. Juliet, i Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445291 5 03/17/20 08:59 03/17/20 17:54 BMB Mt. Juliet, i Volatile Organic Compounds (GC) by Method 8015 WG144556 20 03/19/20 00:641 03/20/20 02:28 KME Mt. Juliet, i Semi-Volatile Organic Compounds (GC) by Method 8015 WG144555 20 03/19/20 06:41 03/20/20 02:28 KME Mt. Juliet, i T-8 (3-4') L1199114-30 Solid Method Batch Dilution Preparation date/time Analysis Analysi Location 03/13/20 08:00 Method Solid Dilution Preparation date/time Analysis Analysi Location 03/13/20 08:00 Total Solids by Method 2540 G-2011 WG1445648 1 03/19/20 01:04 KBC Mt.	Semi-volatile Organic Compounds (GC) by Method 8015	WG1446556	1	03/19/20 06:41	03/20/20 07:32	KME	Mt. Juliet, Tr
Method Batch Dilution Preparation date/time Analysis Analysi Location Total Solids by Method 2540 G-2011 WG1445648 1 03/19/20 00:56 03/19/20 00:34 ELN Mt. Juliet, Wet Chemistry by Method 300.0 WG1445291 5 03/17/20 22:10 03/18/20 00:34 ELN Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445259 1 03/16/20 08:59 03/17/20 17:54 BMB Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 17:54 BMB Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 WG1446556 20 03/19/20 06:41 03/20/20 02:28 KME Mt. Juliet, T-8 (3-4') L1199114-30 Solid Solid Batch Dilution Preparation date/time Analysis Analysi Location Method Batch Dilution Preparation date/time Analysis Analysi Location Method Solids by Method 2540 G-2011 WG1445648 03/19/20 00:56 03/19/20 01:04	T-8 (1-2') L1199114-29 Solid			-			
Wet Chemistry by Method 300.0 WG1445291 5 03/17/20 22:10 03/18/20 00:34 ELN Mt. Juliet, M		Batch	Dilution	•	,	Analyst	Location
Wet Chemistry by Method 300.0 WG1445291 5 03/17/20 22:10 03/18/20 00:34 ELN Mt. Juliet, M	Total Solids by Method 2540 G-2011	WG1445648	1		03/19/20 01:04	KBC	Mt. Juliet, TI
Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445660 1 03/16/20 08:59 03/17/20 18:34 DWR Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 17:54 BMB Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 WG1446556 20 03/19/20 06:41 03/20/20 02:28 KME Mt. Juliet, T-8 (3-4') L1199114-30 Solid Solid Collected by Adrian Collected date/time 03/06/20 Received date/time 03/13/20 Received date/time 03/13/20 03/13/20 03/13/20 03/13/20 08:00 Method Batch Dilution Preparation date/time date/time Analysis Analysis Analysis Location Mt. Juliet, Total Solids by Method 2540 G-2011 WG1445648 1 03/19/20 03/18/20 01:04 KBC Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445291 5 03/17/20 03/18/20 00:53 ELN Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16							Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 17:54 BMB Mt. Juliet, Semi-Volatile Organic Compounds (GC) by Method 8015 WG144556 20 03/19/20 06:41 03/20/20 02:28 KME Mt. Juliet, T-8 (3-4') L1199114-30 Solid Collected by Collected date/time Received date/time Method Batch Dilution Preparation Analysis Analyst Location Total Solids by Method 300.0 WG1445291 5 03/17/20 02:10 03/18/20 00:53 ELN Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8015D/GRO WG1445291 1 03/19/20 00:56 03/19/20 00:53 ELN Mt. Juliet,							Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015 WG1446556 20 03/19/20 06:41 03/20/20 02:28 KME Mt. Juliet, T-8 (3-4') L1199114-30 Solid Collected by Adrian Collected date/time 03/06/20 12:00 Received date/time 03/13/20 08:00 Method Batch Dilution date/time date/time Analysis Analysis Analysis Location Total Solids by Method 2540 G-2011 WG1445648 1 03/19/20 00:56 03/19/20 01:04 KBC Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445291 5 03/17/20 22:10 03/18/20 00:53 ELN Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 18:13 BMB Mt. Juliet,			1		03/17/20 17:54		Mt. Juliet, TN
T-8 (3-4') L1199114-30 Solid Adrian 03/06/20 12:00 03/13/20 08:00 Method Batch Dilution Preparation date/time Analysis Analysis Location Total Solids by Method 2540 G-2011 WG1445648 1 03/19/20 00:56 03/19/20 01:04 KBC Mt. Juliet, Wet Chemistry by Method 300.0 WG1445291 5 03/17/20 22:10 03/18/20 00:53 ELN Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 18:13 BMB Mt. Juliet,				03/19/20 06:41			Mt. Juliet, TN
date/time date/time Total Solids by Method 2540 G-2011 WG1445648 1 03/19/20 00:56 03/19/20 01:04 KBC Mt. Juliet, Wet Chemistry by Method 300.0 WG1445291 5 03/17/20 22:10 03/18/20 00:53 ELN Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445120 1 03/16/20 08:59 03/17/20 08:16 ADM Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 18:13 BMB Mt. Juliet,	T-8 (3-4') L1199114-30 Solid			-			
Total Solids by Method 2540 G-2011 WG1445648 1 03/19/20 00:56 03/19/20 01:04 KBC Mt. Juliet, Wet Chemistry by Method 300.0 WG1445291 5 03/17/20 22:10 03/18/20 00:53 ELN Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445120 1 03/16/20 08:59 03/17/20 08:16 ADM Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 18:13 BMB Mt. Juliet,	Method	Batch	Dilution			Analyst	Location
Wet Chemistry by Method 300.0 WG1445291 5 03/17/20 22:10 03/18/20 00:53 ELN Mt. Juliet, Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445120 1 03/16/20 08:59 03/17/20 08:16 ADM Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 18:13 BMB Mt. Juliet,						,	•••
Volatile Organic Compounds (GC) by Method 8015D/GRO WG1445120 1 03/16/20 08:59 03/17/20 08:16 ADM Mt. Juliet, Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 18:13 BMB Mt. Juliet,							
Volatile Organic Compounds (GC/MS) by Method 8260B WG1445259 1 03/16/20 08:59 03/17/20 18:13 BMB Mt. Juliet,							
							Mt. Juliet, TN Mt. Juliet, TN

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SDG: L1199114 DATE/TIME: 03/24/20 18:17

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SAMPLE SUMMARY

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T-8 (7-8') L1199114-31 Solid			Collected by Adrian	Collected date/time 03/06/20 12:10	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 01:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 18:54	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 18:32	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 13:28	JDG	Mt. Juliet, TN
T-8 (9-10') L1199114-32 Solid			Collected by Adrian	Collected date/time 03/06/20 12:20	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
Total Solids by Mathad 2E40 C 2011		1	date/time	date/time	VDC	M+ Iuliat Th
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	5	03/17/20 22:10	03/18/20 01:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 08:57	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B Semi-Volatile Organic Compounds (GC) by Method 8015	WG1445259 WG1447675	1 1	03/16/20 08:59 03/20/20 15:35	03/17/20 18:51 03/21/20 02:54	BMB JDG	Mt. Juliet, TN Mt. Juliet, TN
			Collected by Adrian	Collected date/time 03/06/20 13:00	Received da 03/13/20 08:	
AH-8E (0-1') L1199114-33 Solid						
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 01:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 09:17	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445259	1	03/16/20 08:59	03/17/20 19:10	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 03:07	JDG	Mt. Juliet, TN
			Collected by	Collected date/time		
AH-8E (3-4') L1199114-34 Solid			Adrian	03/06/20 13:10	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 09:38	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 08:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:41	JDG	Mt. Juliet, TN
			Collected by	Collected date/time		
AH-8W (0-1') L1199114-35 Solid			Adrian	03/06/20 11:00	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 09:58	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 08:37	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	20	03/20/20 15:35	03/21/20 03:57	JDG	Mt. Juliet, TN

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AH-8W (3-4') L1199114-36 Solid			Collected by Adrian	Collected date/time 03/06/20 11:10	Received dat 03/13/20 08:		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:28	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 10:18	ADM	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 08:58	BMB	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 13:02	JDG	Mt. Juliet, TN	
AH-9E (0-1) L1199114-37 Solid			Collected by Adrian	Collected date/time 03/06/20 11:20	Received dat 03/13/20 08:		
	5		D				
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1445648	1	03/19/20 00:56	03/19/20 01:04	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:37	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 10:39	ADM	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 09:18	BMB	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 00:48	JDG	Mt. Juliet, TN	
			Collected by	Collected date/time	Received dat	te/time	
AH-9E (3-4') L1199114-38 Solid			Adrian	03/06/20 11:30	03/13/20 08:	:00	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 02:47	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445120	1	03/16/20 08:59	03/17/20 10:59	ADM	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 09:39	BMB	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 13:15	JDG	Mt. Juliet, TN	
			Collected by	Collected date/time	Received dat		
T-9 (1-2') L1199114-39 Solid			Adrian	03/06/20 11:50	03/13/20 08:	:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 02:57	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 19:15	DWR	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 10:00	BMB	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	20	03/20/20 15:35	03/21/20 03:32	JDG	Mt. Juliet, TN	
T-9 (3-4') L1199114-40 Solid			Collected by Adrian	Collected date/time 03/06/20 12:00		Received date/time 03/13/20 08:00	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 03:06	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445660	1	03/16/20 08:59	03/17/20 19:35	DWR	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 08:59	03/18/20 10:21	BMB	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	10	03/20/20 15:35	03/21/20 03:44	JDG	Mt. Juliet, TN	

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T-9 (7-8') L1199114-41 Solid			Collected by Adrian	Collected date/time 03/06/20 12:10	Received da 03/13/20 08:		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location	
			date/time	date/time			
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 03:35	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1447538	1	03/16/20 09:14	03/20/20 16:07	JAH	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 10:41	BMB	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:00	JDG	Mt. Juliet, TN	
			Collected by Adrian	Collected date/time 03/06/20 12:20	Received da 03/13/20 08:		
T-9 (9-10') L1199114-42 Solid			Aurian	03/06/20 12.20	03/13/20 08.	.00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1445291	20	03/17/20 22:10	03/18/20 03:44	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 07:31	BMB	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 11:02	BMB	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:13	JDG	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da	te/time	
AH-9W (0-1') L1199114-43 Solid			Adrian	03/06/20 13:00	03/13/20 08:	:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 03:54	ELN	Mt. Juliet, TI	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 07:53	BMB	Mt. Juliet, TI	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 11:23	BMB	Mt. Juliet, Ti	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	50	03/20/20 15:35	03/21/20 03:19	JDG	Mt. Juliet, TN	
			Collected by	Collected date/time		Received date/time	
AH-9W (3-4') L1199114-44 Solid			Adrian	03/06/20 13:10	03/13/20 08:	:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, Tl	
Wet Chemistry by Method 300.0	WG1445291	1	03/17/20 22:10	03/18/20 04:03	ELN	Mt. Juliet, Ti	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 08:25	BMB	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 11:43	BMB	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:26	JDG	Mt. Juliet, TN	
			Collected by	Collected date/time	Received da		
AH-10E (0-1') L1199114-45 Solid			Adrian	03/09/20 11:00	03/13/20 08:	:00	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location	
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN	
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 00:58	ELN	Mt. Juliet, TN	
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 09:13	BMB	Mt. Juliet, TN	
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 12:04	BMB	Mt. Juliet, TN	
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:38	JDG	Mt. Juliet, TN	

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AH-10E (3-4') L1199114-46 Solid			Collected by Adrian	Collected date/time 03/09/20 11:10	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 01:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 09:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 12:24	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:29	JDG	Mt. Juliet, TN
AH-10W (0-1') L1199114-47 Solid			Collected by Adrian	Collected date/time 03/09/20 11:20	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445649	1	03/19/20 00:46	03/19/20 00:54	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 02:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 10:20	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 12:45	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 01:51	JDG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-10W (3-4') L1199114-48 Solid			Adrian	03/09/20 11:30	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 02:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 10:42	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 13:06	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:03	JDG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
T-10 (1-2') L1199114-49 Solid			Adrian	03/09/20 11:50	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	5	03/17/20 20:08	03/18/20 02:45	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 11:03	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 13:26	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447675	1	03/20/20 15:35	03/21/20 02:16	JDG	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
T-10 (14-15') L1199114-50 Solid			Adrian	03/09/20 12:20	03/13/20 08:	00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 03:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 11:14	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 13:47	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 00:31	KME	Mt. Juliet, TN

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T-9 (16'-17') L1199114-51 Solid			Collected by Adrian	Collected date/time 03/09/20 13:00	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	10	03/17/20 20:08	03/18/20 03:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 11:38	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 14:07	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 00:45	KME	Mt. Juliet, TN
AH-11W (0-1') L1199114-52 Solid			Collected by Adrian	Collected date/time 03/10/20 10:50	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TI
Wet Chemistry by Method 300.0	WG1445051 WG1445292	10	03/19/20 00.34	03/18/20 04:15	ELN	Mt. Juliet, Th Mt. Juliet, Th
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445292 WG1445199	10	03/16/20 09:14	03/17/20 12:14	ACG	Mt. Juliet, Th Mt. Juliet, Th
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 14:28	BMB	Mt. Juliet, T
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 10:45	FM	Mt. Juliet, T
AH-11W (3-4') L1199114-53 Solid			Collected by Adrian	Collected date/time 03/10/20 11:00	Received da 03/13/20 08:	
	Datab	Dilution	Droporation	Analycic	Applyct	Location
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TI
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 04:32	ELN	Mt. Juliet, Ti
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1446150	1	03/16/20 09:14	03/18/20 17:19	JAH	Mt. Juliet, TI
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445267	1	03/16/20 09:14	03/18/20 14:48	BMB	Mt. Juliet, Ti
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 10:59	FM	Mt. Juliet, Ti
AH-11E (0-1') L1199114-54 Solid			Collected by Adrian	Collected date/time 03/10/20 11:10	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, Ti
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 05:26	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 13:02	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445419	1	03/16/20 09:14	03/17/20 17:30	JHH	Mt. Juliet, T
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 10:32	FM	Mt. Juliet, TN
AH-11E (3-4') L1199114-55 Solid			Collected by Adrian	Collected date/time 03/10/20 11:20	Received da 03/13/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 05:44	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 13:26	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445419	1	03/16/20 09:14	03/17/20 17:49	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 10:18	FM	Mt. Juliet, TN

PROJECT: 212C-MD-02119

SDG: L1199114 DATE/TIME: 03/24/20 18:17 PAGE: 14 of 109

SAMPLE SUMMARY

ONE LAB. NAT Page 94 of 25

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			Collected by	Collected date/time	Received da	te/time
T-11 (1-2') L1199114-56 Solid		Adrian	03/10/20 11:30	03/13/20 08:00		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Net Chemistry by Method 300.0	WG1445292	5	03/17/20 20:08	03/18/20 06:02	ELN	Mt. Juliet, TN
/olatile Organic Compounds (GC) by Method 8015D/GRO	WG1445199	1	03/16/20 09:14	03/17/20 13:50	ACG	Mt. Juliet, TN
/olatile Organic Compounds (GC/MS) by Method 8260B	WG1445419	1	03/16/20 09:14	03/17/20 18:08	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 00:58	KME	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time

T-11 (14-15') L1199114-57 Solid	Adrian	03/10/20 12:10	03/13/20 08:00			
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1445651	1	03/19/20 00:34	03/19/20 00:43	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1445292	1	03/17/20 20:08	03/18/20 06:20	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1445128	1	03/16/20 09:14	03/17/20 09:35	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1445419	1	03/16/20 09:14	03/17/20 18:27	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1447038	1	03/19/20 16:24	03/20/20 09:52	FM	Mt. Juliet, TN

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SDG: L1199114 DATE/TIME: 03/24/20 18:17

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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 McCord Project Manager

Released to Imaging: 1/25/2024 2:25:45 PM ConocoPhillips - Tetra Tech PROJECT: 212C-MD-02119

SDG: L1199114 C

DATE/TIME: 03/24/20 18:17 PAGE: 16 of 109

Recreived by OOP: 6/6/2023 9:06:06 AM Collected date/time: 03/03/20 11:00

SAMPLE RESULTS - 01

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	95.9		1	03/19/2020 01:48	WG1445642	Tc

Wet Chemistry by Method 300.0

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4
Chloride	2.79	<u>B J</u>	0.829	10.4	1	03/18/2020 20:10	WG1444779	Ľ

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quantor	mg/kg	mg/kg	2.101.011	date / time		
TPH (GC/FID) Low Fraction	0.0568	<u>B J</u>	0.0226	0.104	1	03/17/2020 00:27	WG1445119	
(S) a,a,a-Trifluorotoluene(FID)	93.3			77.0-120		03/17/2020 00:27	<u>WG1445119</u>	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00104	1	03/17/2020 00:32	WG1445122
Toluene	U		0.00130	0.00521	1	03/17/2020 00:32	WG1445122
Ethylbenzene	U		0.000553	0.00261	1	03/17/2020 00:32	WG1445122
Total Xylenes	U		0.00498	0.00678	1	03/17/2020 00:32	WG1445122
(S) Toluene-d8	98.4			75.0-131		03/17/2020 00:32	WG1445122
(S) 4-Bromofluorobenzene	109			67.0-138		03/17/2020 00:32	WG1445122
(S) 1,2-Dichloroethane-d4	132	<u>J1</u>		70.0-130		03/17/2020 00:32	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.86		1.68	4.17	1	03/18/2020 21:53	WG1445151
C28-C40 Oil Range	29.7		0.286	4.17	1	03/18/2020 21:53	<u>WG1445151</u>
(S) o-Terphenyl	66.7			18.0-148		03/18/2020 21:53	WG1445151

SDG: L1199114 DATE/TIME: 03/24/20 18:17 ³Ss ^₄Cn

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SAMPLE RESULTS - 02

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C	Ĵр
Analyte	%			date / time		2	_
Total Solids	95.1		1	03/19/2020 01:48	WG1445642	[² T	C

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	106		0.836	10.5	1	03/18/2020 20:20	WG1444779	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanter	mg/kg	mg/kg	Diration	date / time	Bateri	
TPH (GC/FID) Low Fraction	0.0258	J	0.0228	0.105	1	03/17/2020 13:18	WG1445448	
(S) a,a,a-Trifluorotoluene(FID)	94.6			77.0-120		03/17/2020 13:18	WG1445448	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000421	0.00105	1	03/17/2020 00:52	<u>WG1445122</u>
Toluene	U		0.00131	0.00526	1	03/17/2020 00:52	<u>WG1445122</u>
Ethylbenzene	U		0.000557	0.00263	1	03/17/2020 00:52	WG1445122
Total Xylenes	U		0.00503	0.00683	1	03/17/2020 00:52	WG1445122
(S) Toluene-d8	101			75.0-131		03/17/2020 00:52	WG1445122
(S) 4-Bromofluorobenzene	117			67.0-138		03/17/2020 00:52	WG1445122
(S) 1,2-Dichloroethane-d4	122			70.0-130		03/17/2020 00:52	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.59		1.69	4.21	1	03/18/2020 22:05	<u>WG1445151</u>
C28-C40 Oil Range	30.2		0.288	4.21	1	03/18/2020 22:05	<u>WG1445151</u>
(S) o-Terphenyl	75.5			18.0-148		03/18/2020 22:05	WG1445151

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SAMPLE RESULTS - 03 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		P	2
Total Solids	96.0		1	03/19/2020 01:48	WG1445642		Tc

Wet Chemistry by Method 300.0

Wet Chemisti	ry by Method 300	0.0						
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	2.64	ВJ	0.828	10.4	1	03/18/2020 20:29	WG1444779	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
		Quanner			Dilution	,	baten	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0422	<u>B J</u>	0.0226	0.104	1	03/17/2020 01:09	WG1445119	L
(S) a,a,a-Trifluorotoluene(FID)	95.2			77.0-120		03/17/2020 01:09	WG1445119	7

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00104	1	03/17/2020 01:12	WG1445122
Toluene	U		0.00130	0.00521	1	03/17/2020 01:12	WG1445122
Ethylbenzene	U		0.000552	0.00260	1	03/17/2020 01:12	WG1445122
Total Xylenes	U		0.00498	0.00677	1	03/17/2020 01:12	WG1445122
(S) Toluene-d8	99.6			75.0-131		03/17/2020 01:12	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 01:12	WG1445122
(S) 1,2-Dichloroethane-d4	119			70.0-130		03/17/2020 01:12	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.90		1.68	4.17	1	03/18/2020 21:40	WG1445151
C28-C40 Oil Range	28.0		0.285	4.17	1	03/18/2020 21:40	WG1445151
(S) o-Terphenyl	69.6			18.0-148		03/18/2020 21:40	WG1445151

SDG: L1199114

Received by DOD: 6/6/2023 9:06:06 AM Collected date/time: 03/03/20 11:30

SAMPLE RESULTS - 04 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	94.3		1	03/19/2020 01:48	WG1445642	Tc

Wet Chemistry by Method 300.0

Wet Chemist	ry by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	285		0.843	10.6	1	03/18/2020 20:39	WG1444779	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	03/17/2020 13:39	WG1445448
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		03/17/2020 13:39	WG1445448

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000424	0.00106	1	03/17/2020 01:32	WG1445122
Toluene	U		0.00133	0.00530	1	03/17/2020 01:32	<u>WG1445122</u>
Ethylbenzene	U		0.000562	0.00265	1	03/17/2020 01:32	<u>WG1445122</u>
Total Xylenes	U		0.00507	0.00689	1	03/17/2020 01:32	<u>WG1445122</u>
(S) Toluene-d8	101			75.0-131		03/17/2020 01:32	WG1445122
(S) 4-Bromofluorobenzene	112			67.0-138		03/17/2020 01:32	<u>WG1445122</u>
(S) 1,2-Dichloroethane-d4	117			70.0-130		03/17/2020 01:32	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.16	J	1.71	4.24	1	03/17/2020 22:04	<u>WG1445151</u>
C28-C40 Oil Range	7.64		0.291	4.24	1	03/17/2020 22:04	<u>WG1445151</u>
(S) o-Terphenyl	59.0			18.0-148		03/17/2020 22:04	WG1445151

SDG: L1199114

Collected date/time: 03/05/20 11:50

SAMPLE RESULTS - 05 L1199114

ONE LAB. NAPage 100 of 125

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	95.1		1	03/19/2020 01:48	WG1445642	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			4 Cn
Chloride	38.0		0.836	10.5	1	03/18/2020 20:48	WG1444779		

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0350	<u>B J</u>	0.0228	0.105	1	03/17/2020 01:50	WG1445119	
(S) a,a,a-Trifluorotoluene(FID)	94.8			77.0-120		03/17/2020 01:50	WG1445119	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000421	0.00105	1	03/17/2020 01:52	WG1445122
Toluene	U		0.00131	0.00526	1	03/17/2020 01:52	<u>WG1445122</u>
Ethylbenzene	U		0.000557	0.00263	1	03/17/2020 01:52	WG1445122
Total Xylenes	U		0.00503	0.00684	1	03/17/2020 01:52	<u>WG1445122</u>
(S) Toluene-d8	102			75.0-131		03/17/2020 01:52	WG1445122
(S) 4-Bromofluorobenzene	109			67.0-138		03/17/2020 01:52	<u>WG1445122</u>
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/17/2020 01:52	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.21	1	03/17/2020 21:00	WG1445151
C28-C40 Oil Range	4.04	J	0.288	4.21	1	03/17/2020 21:00	WG1445151
(S) o-Terphenyl	64.4			18.0-148		03/17/2020 21:00	WG1445151

SDG: L1199114

Received by OCD: 6/6/2023 9:06:06 AM Collected date/time: 03/05/20 12:00 SAMPLE RESULTS - 06

ONE LAB. NAPage 101 of 25

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	91.1		1	03/19/2020 01:48	WG1445642	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	628		0.873	11.0	1	03/18/2020 10:55	WG1444780

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (dry)	Quanner	WDE (ury)	KDL (dry)	Dilution	,	Baten	e
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0649	<u>B J</u>	0.0238	0.110	1	03/17/2020 02:10	WG1445119	L
(S) a,a,a-Trifluorotoluene(FID)	93.5			77.0-120		03/17/2020 02:10	WG1445119	7

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000457	0.00114	1.04	03/17/2020 02:13	WG1445122
Toluene	U		0.00143	0.00571	1.04	03/17/2020 02:13	<u>WG1445122</u>
Ethylbenzene	U		0.000605	0.00285	1.04	03/17/2020 02:13	WG1445122
Total Xylenes	U		0.00546	0.00742	1.04	03/17/2020 02:13	<u>WG1445122</u>
(S) Toluene-d8	99.4			75.0-131		03/17/2020 02:13	WG1445122
(S) 4-Bromofluorobenzene	113			67.0-138		03/17/2020 02:13	WG1445122
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/17/2020 02:13	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.77	4.39	1	03/17/2020 21:13	WG1445151
C28-C40 Oil Range	3.13	J	0.301	4.39	1	03/17/2020 21:13	WG1445151
(S) o-Terphenyl	70.9			18.0-148		03/17/2020 21:13	WG1445151

SDG: L1199114

Received by QCD: 6/6/2023 9:06:06 AM Collected date/time: 03/05/20 12:10

SAMPLE RESULTS - 07 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	90.7		1	03/19/2020 01:48	WG1445642	Tc

Wet Chemistry by Method 300.0

Wet Chemistr	ry by Method 300	0.0						³Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	2630		4.39	55.1	5	03/18/2020 11:14	WG1444780	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analita		dunner			Dilation	date / time	Batem	
Analyte	mg/kg		mg/kg	mg/kg				
TPH (GC/FID) Low Fraction	0.0670	J	0.0239	0.110	1	03/17/2020 13:59	WG1445448	
(S) a,a,a-Trifluorotoluene(FID)	92.1			77.0-120		03/17/2020 13:59	WG1445448	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000441	0.00110	1	03/17/2020 02:33	WG1445122
Toluene	U		0.00138	0.00551	1	03/17/2020 02:33	WG1445122
Ethylbenzene	U		0.000584	0.00276	1	03/17/2020 02:33	WG1445122
Total Xylenes	U		0.00527	0.00717	1	03/17/2020 02:33	WG1445122
(S) Toluene-d8	102			75.0-131		03/17/2020 02:33	WG1445122
(S) 4-Bromofluorobenzene	112			67.0-138		03/17/2020 02:33	WG1445122
(S) 1,2-Dichloroethane-d4	118			70.0-130		03/17/2020 02:33	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.41	1	03/17/2020 20:35	WG1445151
C28-C40 Oil Range	7.83		0.302	4.41	1	03/17/2020 20:35	<u>WG1445151</u>
(S) o-Terphenyl	68.8			18.0-148		03/17/2020 20:35	WG1445151

SDG: L1199114

Collected date/time: 03/05/20 12:20

SAMPLE RESULTS - 08 L1199114

ONE LAB. NAPage 103 of 25

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	90.6		1	03/19/2020 01:48	WG1445642	Tc

Wet Chemistry by Method 300.0

Wet Chemistry	by Method 300	0.0						3	³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time		4	4 Cn
Chloride	233		0.877	11.0	1	03/18/2020 11:23	WG1444780		CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
		Quanner			Dilution	,	Bateri	e	6
Analyte	mg/kg		mg/kg	mg/kg		date / time			
TPH (GC/FID) Low Fraction	0.0347	<u>B J</u>	0.0240	0.110	1	03/17/2020 02:52	WG1445119	L	
(S) a,a,a-Trifluorotoluene(FID)	93.8			77.0-120		03/17/2020 02:52	WG1445119	7	⁷ G

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00110	1	03/17/2020 02:53	WG1445122
Toluene	U		0.00138	0.00552	1	03/17/2020 02:53	<u>WG1445122</u>
Ethylbenzene	U		0.000585	0.00276	1	03/17/2020 02:53	WG1445122
Total Xylenes	U		0.00528	0.00717	1	03/17/2020 02:53	WG1445122
(S) Toluene-d8	102			75.0-131		03/17/2020 02:53	WG1445122
(S) 4-Bromofluorobenzene	113			67.0-138		03/17/2020 02:53	WG1445122
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/17/2020 02:53	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.42	1	03/17/2020 20:48	WG1445151
C28-C40 Oil Range	1.56	J	0.302	4.42	1	03/17/2020 20:48	WG1445151
(S) o-Terphenyl	65.5			18.0-148		03/17/2020 20:48	WG1445151

SDG: L1199114

Refeired by 2919: 6/6/2023 9:06:06 AM Collected date/time: 03/05/20 13:00

SAMPLE RESULTS - 09 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	97.0		1	03/19/2020 01:36	WG1445643	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			4 Cn
Chloride	38.2		0.820	10.3	1	03/18/2020 11:33	WG1444780		CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Patch	
	Result (uly)	Qualifier	WDL (ury)	RDL (ury)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0321	<u>B J</u>	0.0224	0.103	1	03/17/2020 03:12	WG1445119	
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		03/17/2020 03:12	WG1445119	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000412	0.00103	1	03/17/2020 03:13	WG1445122
Toluene	U		0.00129	0.00515	1	03/17/2020 03:13	<u>WG1445122</u>
Ethylbenzene	U		0.000546	0.00258	1	03/17/2020 03:13	WG1445122
Total Xylenes	U		0.00493	0.00670	1	03/17/2020 03:13	<u>WG1445122</u>
(S) Toluene-d8	104			75.0-131		03/17/2020 03:13	WG1445122
(S) 4-Bromofluorobenzene	120			67.0-138		03/17/2020 03:13	<u>WG1445122</u>
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/17/2020 03:13	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	133		33.2	82.5	20	03/17/2020 23:32	WG1445151
C28-C40 Oil Range	391		5.65	82.5	20	03/17/2020 23:32	<u>WG1445151</u>
(S) o-Terphenyl	0.000	<u>J7</u>		18.0-148		03/17/2020 23:32	WG1445151

SDG: L1199114

Received by 30 (D: 6/6/2023 9:06:06 AM Collected date/time: 03/05/20 13:10

SAMPLE RESULTS - 10 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	90.6		1	03/19/2020 01:36	WG1445643	Tc

Wet Chemistry by Method 300.0

Wat Chamist	ry by Method 300							3
wet Chemist	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	 Ss
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cr
Chloride	84.6		0.878	11.0	1	03/18/2020 11:42	WG1444780	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		ľ
TPH (GC/FID) Low Fraction	U		0.0240	0.110	1	03/17/2020 14:20	WG1445448	
(S) a,a,a-Trifluorotoluene(FID)	94.0			77.0-120		03/17/2020 14:20	<u>WG1445448</u>	70

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00110	1	03/17/2020 03:34	WG1445122
Toluene	U		0.00138	0.00552	1	03/17/2020 03:34	WG1445122
Ethylbenzene	U		0.000585	0.00276	1	03/17/2020 03:34	WG1445122
Total Xylenes	U		0.00528	0.00717	1	03/17/2020 03:34	WG1445122
(S) Toluene-d8	103			75.0-131		03/17/2020 03:34	WG1445122
(S) 4-Bromofluorobenzene	113			67.0-138		03/17/2020 03:34	WG1445122
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/17/2020 03:34	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	309		35.5	88.3	20	03/17/2020 23:57	<u>WG1445151</u>
C28-C40 Oil Range	793		6.05	88.3	20	03/17/2020 23:57	WG1445151
(S) o-Terphenyl	0.000	<u>J7</u>		18.0-148		03/17/2020 23:57	WG1445151

SDG: L1199114

SAMPLE RESULTS - 11 L1199114

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Collected date/time: 03/05/20 11:00

Total Solids by M	lethod 2540 G-2	2011				1
	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	95.9		1	03/19/2020 01:36	WG1445643	Tc

Wet Chemistry by Method 300.0

Wet Chemistr	y by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	2.50	J	0.829	10.4	1	03/18/2020 11:52	WG1444780	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0312	<u>B J</u>	0.0226	0.104	1	03/17/2020 03:53	WG1445119	
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		03/17/2020 03:53	WG1445119	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00104	1	03/17/2020 03:54	<u>WG1445122</u>
Toluene	U		0.00130	0.00521	1	03/17/2020 03:54	<u>WG1445122</u>
Ethylbenzene	U		0.000553	0.00261	1	03/17/2020 03:54	WG1445122
Total Xylenes	U		0.00498	0.00678	1	03/17/2020 03:54	WG1445122
(S) Toluene-d8	104			75.0-131		03/17/2020 03:54	WG1445122
(S) 4-Bromofluorobenzene	117			67.0-138		03/17/2020 03:54	<u>WG1445122</u>
(S) 1,2-Dichloroethane-d4	112			70.0-130		03/17/2020 03:54	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.00		1.68	4.17	1	03/18/2020 22:18	WG1445151
C28-C40 Oil Range	33.3		0.286	4.17	1	03/18/2020 22:18	WG1445151
(S) o-Terphenyl	73.7			18.0-148		03/18/2020 22:18	WG1445151

SDG: L1199114

Received by 30 (D: 6/6/2023 9:06:06 AM Collected date/time: 03/05/20 11:10

SAMPLE RESULTS - 12 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	94.6		1	03/19/2020 01:36	WG1445643	Tc

Wet Chemistry by Method 300.0

Wet Chemist	ry by Method 300	0.0						
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	209		0.841	10.6	1	03/18/2020 12:01	WG1444780	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	03/17/2020 14:41	WG1445448	
(S) a,a,a-Trifluorotoluene(FID)	94.3			77.0-120		03/17/2020 14:41	WG1445448	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000423	0.00106	1	03/17/2020 04:14	WG1445122
Toluene	U		0.00132	0.00529	1	03/17/2020 04:14	WG1445122
Ethylbenzene	U		0.000561	0.00264	1	03/17/2020 04:14	WG1445122
Total Xylenes	U		0.00506	0.00687	1	03/17/2020 04:14	WG1445122
(S) Toluene-d8	102			75.0-131		03/17/2020 04:14	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 04:14	WG1445122
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/17/2020 04:14	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.18	J	1.70	4.23	1	03/18/2020 19:46	WG1445151
C28-C40 Oil Range	8.05		0.290	4.23	1	03/18/2020 19:46	WG1445151
(S) o-Terphenyl	69.3			18.0-148		03/18/2020 19:46	WG1445151

SDG: L1199114

Received by OGD; 6/6/2023 9:06:06 AM Collected date/time: 03/05/20 11:20

SAMPLE RESULTS - 13

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	97.8		1	03/19/2020 01:36	WG1445643	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	19.2		0.813	10.2	1	03/18/2020 12:49	WG1444780	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
A 1.		Quanner			Dilution	,	Baten	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0273	<u>B J</u>	0.0222	0.102	1	03/17/2020 04:34	WG1445119	
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		03/17/2020 04:34	<u>WG1445119</u>	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000409	0.00102	1	03/17/2020 04:35	WG1445122
Toluene	U		0.00128	0.00511	1	03/17/2020 04:35	WG1445122
Ethylbenzene	U		0.000542	0.00256	1	03/17/2020 04:35	WG1445122
Total Xylenes	U		0.00489	0.00665	1	03/17/2020 04:35	WG1445122
(S) Toluene-d8	102			75.0-131		03/17/2020 04:35	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 04:35	WG1445122
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/17/2020 04:35	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	23.8		1.65	4.09	1	03/18/2020 19:59	WG1445151
C28-C40 Oil Range	63.4		0.280	4.09	1	03/18/2020 19:59	WG1445151
(S) o-Terphenyl	61.3			18.0-148		03/18/2020 19:59	WG1445151

SDG: L1199114

SAMPLE RESULTS - 14

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C	р
Analyte	%			date / time		2	_
Total Solids	96.1		1	03/19/2020 01:36	WG1445643		С

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	33.7		0.827	10.4	1	03/18/2020 12:58	WG1444780	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quantor	mg/kg	mg/kg	2.101.011	date / time		
TPH (GC/FID) Low Fraction	0.0362	ВJ	0.0226	0.104	1	03/17/2020 04:55	WG1445119	
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120		03/17/2020 04:55	WG1445119	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000416	0.00104	1	03/17/2020 04:55	WG1445122
Toluene	U		0.00130	0.00520	1	03/17/2020 04:55	WG1445122
Ethylbenzene	U		0.000551	0.00260	1	03/17/2020 04:55	WG1445122
Total Xylenes	U		0.00497	0.00676	1	03/17/2020 04:55	WG1445122
(S) Toluene-d8	103			75.0-131		03/17/2020 04:55	WG1445122
(S) 4-Bromofluorobenzene	119			67.0-138		03/17/2020 04:55	WG1445122
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/17/2020 04:55	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	18.5		1.67	4.16	1	03/17/2020 21:26	WG1445151
C28-C40 Oil Range	6.18		0.285	4.16	1	03/17/2020 21:26	WG1445151
(S) o-Terphenyl	40.4			18.0-148		03/17/2020 21:26	WG1445151

SDG: L1199114

Received by OCD: 6/6/2023 9:06:06 AM

Collected date/time: 03/05/20 11:50

SAMPLE RESULTS - 15 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		2	
Total Solids	90.4		1	03/19/2020 01:36	WG1445643	-	Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	569		4.40	55.3	5	03/18/2020 13:08	WG1444780

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		°C
TPH (GC/FID) Low Fraction	0.0265	<u>B J</u>	0.0240	0.111	1	03/17/2020 05:15	WG1445119	
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		03/17/2020 05:15	<u>WG1445119</u>	7

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00111	1	03/17/2020 05:15	<u>WG1445122</u>
Toluene	U		0.00138	0.00553	1	03/17/2020 05:15	<u>WG1445122</u>
Ethylbenzene	U		0.000586	0.00277	1	03/17/2020 05:15	WG1445122
Total Xylenes	U		0.00529	0.00719	1	03/17/2020 05:15	<u>WG1445122</u>
(S) Toluene-d8	103			75.0-131		03/17/2020 05:15	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 05:15	WG1445122
(S) 1,2-Dichloroethane-d4	116			70.0-130		03/17/2020 05:15	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1250		35.6	88.5	20	03/18/2020 00:15	WG1445151
C28-C40 Oil Range	969		6.06	88.5	20	03/18/2020 00:15	WG1445151
(S) o-Terphenyl	0.000	<u>J7</u>		18.0-148		03/18/2020 00:15	WG1445151

SDG: L1199114

SAMPLE RESULTS - 16 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	93.4		1	03/19/2020 01:36	WG1445643	Tc

Wet Chemistry by Method 300.0

Wet Chemist	try by Method 300	0.0						3
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	- L
Analyte	mg/kg		mg/kg	mg/kg		date / time		4
Chloride	722		0.851	10.7	1	03/18/2020 13:17	<u>WG1444780</u>	Ľ

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		Ŭ
TPH (GC/FID) Low Fraction	0.0251	J	0.0232	0.107	1	03/17/2020 15:01	WG1445448	L
(S) a,a,a-Trifluorotoluene(FID)	95.1			77.0-120		03/17/2020 15:01	WG1445448	7

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/17/2020 05:35	WG1445122
Toluene	U		0.00134	0.00535	1	03/17/2020 05:35	<u>WG1445122</u>
Ethylbenzene	U		0.000568	0.00268	1	03/17/2020 05:35	WG1445122
Total Xylenes	U		0.00512	0.00696	1	03/17/2020 05:35	<u>WG1445122</u>
(S) Toluene-d8	103			75.0-131		03/17/2020 05:35	WG1445122
(S) 4-Bromofluorobenzene	114			67.0-138		03/17/2020 05:35	<u>WG1445122</u>
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/17/2020 05:35	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	215		1.72	4.28	1	03/17/2020 21:38	WG1445151
C28-C40 Oil Range	156		0.293	4.28	1	03/17/2020 21:38	WG1445151
(S) o-Terphenyl	71.0			18.0-148		03/17/2020 21:38	WG1445151

SDG: L1199114

SAMPLE RESULTS - 17 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	95.7		1	03/19/2020 01:36	WG1445643	Tc

Wet Chemistry by Method 300.0

Wet Chemistr	ry by Method 300).0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	1.38	J	0.830	10.4	1	03/18/2020 13:27	WG1444780	CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte		Quaimer			Dilution	date / time	baten	e
•	mg/kg		mg/kg	mg/kg				
TPH (GC/FID) Low Fraction	0.0323	<u>B J</u>	0.0227	0.104	1	03/17/2020 07:01	<u>WG1445119</u>	
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120		03/17/2020 07:01	<u>WG1445119</u>	7

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000418	0.00104	1	03/17/2020 05:56	WG1445122
Toluene	U		0.00131	0.00522	1	03/17/2020 05:56	WG1445122
Ethylbenzene	U		0.000554	0.00261	1	03/17/2020 05:56	WG1445122
Total Xylenes	U		0.00499	0.00679	1	03/17/2020 05:56	WG1445122
(S) Toluene-d8	102			75.0-131		03/17/2020 05:56	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 05:56	WG1445122
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/17/2020 05:56	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.54	J	1.68	4.18	1	03/19/2020 23:30	WG1446556
C28-C40 Oil Range	9.51		0.286	4.18	1	03/19/2020 23:30	WG1446556
(S) o-Terphenyl	66.8			18.0-148		03/19/2020 23:30	WG1446556

SDG: L1199114

SAMPLE RESULTS - 18 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	95.6		1	03/19/2020 01:36	WG1445643	Tc

Wet Chemistry by Method 300.0

Wet Chemist	ry by Method 300	0.0						³Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	3.41	J	0.832	10.5	1	03/18/2020 13:36	WG1444780	CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg	Quanner	mg/kg	mg/kg	Dilution	date / time	Baten	6	⁶ C
TPH (GC/FID) Low Fraction	0.0247	ВJ	0.0227	0.105	1	03/17/2020 07:22	WG1445119		
(S) a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		03/17/2020 07:22	WG1445119	1	⁷ G

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	03/17/2020 06:16	WG1445122
Toluene	U		0.00131	0.00523	1	03/17/2020 06:16	WG1445122
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 06:16	WG1445122
Total Xylenes	U		0.00500	0.00680	1	03/17/2020 06:16	WG1445122
(S) Toluene-d8	103			75.0-131		03/17/2020 06:16	WG1445122
(S) 4-Bromofluorobenzene	119			67.0-138		03/17/2020 06:16	WG1445122
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/17/2020 06:16	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.19	1	03/19/2020 21:32	WG1446556
C28-C40 Oil Range	3.52	J	0.287	4.19	1	03/19/2020 21:32	<u>WG1446556</u>
(S) o-Terphenyl	66.5			18.0-148		03/19/2020 21:32	WG1446556

SDG: L1199114

SAMPLE RESULTS - 19 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	93.4		1	03/19/2020 01:27	WG1445647	Тс

Wet Chemistry by Method 300.0

Wet Chemist	try by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	1.27	J	0.851	10.7	1	03/18/2020 13:46	WG1444780	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
		Quanner		KDE (dry)	Dilution	,	Daten	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		6
TPH (GC/FID) Low Fraction	0.0324	ВJ	0.0232	0.107	1	03/17/2020 07:42	WG1445119	
(S) a,a,a-Trifluorotoluene(FID)	94.5			77.0-120		03/17/2020 07:42	WG1445119	⁷ G

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/17/2020 06:36	<u>WG1445122</u>
Toluene	U		0.00134	0.00535	1	03/17/2020 06:36	WG1445122
Ethylbenzene	U		0.000567	0.00268	1	03/17/2020 06:36	WG1445122
Total Xylenes	U		0.00512	0.00696	1	03/17/2020 06:36	WG1445122
(S) Toluene-d8	101			75.0-131		03/17/2020 06:36	WG1445122
(S) 4-Bromofluorobenzene	115			67.0-138		03/17/2020 06:36	WG1445122
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/17/2020 06:36	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.72	4.28	1	03/19/2020 21:45	WG1446556
C28-C40 Oil Range	3.00	J	0.293	4.28	1	03/19/2020 21:45	WG1446556
(S) o-Terphenyl	62.9			18.0-148		03/19/2020 21:45	WG1446556

SDG: L1199114

SAMPLE RESULTS - 20

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	92.2		1	03/19/2020 01:27	WG1445647	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	24.0		0.862	10.8	1	03/18/2020 13:55	WG1444780

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

	Result (dry)	Qualifior	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	Result (ury)	Qualifier	WDL (ury)	KDL (ury)	Dilution	Allalysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		Q
TPH (GC/FID) Low Fraction	0.0788	<u>B J</u>	0.0235	0.108	1	03/17/2020 08:03	WG1445119	
(S) a,a,a-Trifluorotoluene(FID)	92.8			77.0-120		03/17/2020 08:03	WG1445119	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000434	0.00108	1	03/17/2020 06:56	WG1445122
Toluene	U		0.00136	0.00542	1	03/17/2020 06:56	<u>WG1445122</u>
Ethylbenzene	U		0.000575	0.00271	1	03/17/2020 06:56	WG1445122
Total Xylenes	U		0.00518	0.00705	1	03/17/2020 06:56	WG1445122
(S) Toluene-d8	103			75.0-131		03/17/2020 06:56	WG1445122
(S) 4-Bromofluorobenzene	114			67.0-138		03/17/2020 06:56	WG1445122
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/17/2020 06:56	WG1445122

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.75	4.34	1	03/19/2020 21:57	WG1446556
C28-C40 Oil Range	4.33	J	0.297	4.34	1	03/19/2020 21:57	WG1446556
(S) o-Terphenyl	63.0			18.0-148		03/19/2020 21:57	WG1446556

SDG: L1199114

SAMPLE RESULTS - 21 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	94.5		1	03/19/2020 01:27	WG1445647	Tc

Wet Chemistry by Method 300.0

Wet Chemistr	ry by Method 300).0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	3.62	J	0.841	10.6	1	03/18/2020 14:24	WG1444780	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0546	ВJ	0.0230	0.106	1	03/17/2020 01:23	WG1445120	
(S) a,a,a-Trifluorotoluene(FID)	96.0			77.0-120		03/17/2020 01:23	WG1445120	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000423	0.00106	1	03/17/2020 15:22	WG1445259
Toluene	U		0.00132	0.00529	1	03/17/2020 15:22	WG1445259
Ethylbenzene	U		0.000561	0.00264	1	03/17/2020 15:22	WG1445259
Total Xylenes	U		0.00506	0.00688	1	03/17/2020 15:22	WG1445259
(S) Toluene-d8	105			75.0-131		03/17/2020 15:22	WG1445259
(S) 4-Bromofluorobenzene	103			67.0-138		03/17/2020 15:22	WG1445259
(S) 1,2-Dichloroethane-d4	99.2			70.0-130		03/17/2020 15:22	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	16.4		1.70	4.23	1	03/20/2020 07:45	WG1446556
C28-C40 Oil Range	53.2		0.290	4.23	1	03/20/2020 07:45	<u>WG1446556</u>
(S) o-Terphenyl	47.2			18.0-148		03/20/2020 07:45	WG1446556

SDG: L1199114

SAMPLE RESULTS - 22 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	87.5		1	03/19/2020 01:27	WG1445647	Tc

Wet Chemistry by Method 300.0

Wet Chemistry	y by Method 300).0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	1950		4.55	57.1	5	03/18/2020 14:34	WG1444780	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0493	ВJ	0.0248	0.114	1	03/17/2020 01:44	WG1445120	
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		03/17/2020 01:44	WG1445120	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000457	0.00114	1	03/17/2020 15:41	WG1445259
Toluene	U		0.00143	0.00571	1	03/17/2020 15:41	WG1445259
Ethylbenzene	U		0.000606	0.00286	1	03/17/2020 15:41	WG1445259
Total Xylenes	U		0.00546	0.00743	1	03/17/2020 15:41	<u>WG1445259</u>
(S) Toluene-d8	105			75.0-131		03/17/2020 15:41	WG1445259
(S) 4-Bromofluorobenzene	99.6			67.0-138		03/17/2020 15:41	WG1445259
(S) 1,2-Dichloroethane-d4	100			70.0-130		03/17/2020 15:41	<u>WG1445259</u>

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.71		1.84	4.57	1	03/19/2020 23:56	WG1446556
C28-C40 Oil Range	18.5		0.313	4.57	1	03/19/2020 23:56	WG1446556
(S) o-Terphenyl	67.5			18.0-148		03/19/2020 23:56	WG1446556

SDG: L1199114

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Collected date/time: 03/05/20 11:50

SAMPLE RESULTS - 23

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	90.9		1	03/19/2020 01:27	WG1445647	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1100		4.38	55.0	5	03/18/2020 14:43	WG1444780

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Patch	
	Result (uly)	Qualifier	MDL (ury)	RDL (uly)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0522	<u>B J</u>	0.0239	0.110	1	03/17/2020 02:04	WG1445120	
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		03/17/2020 02:04	<u>WG1445120</u>	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000440	0.00110	1	03/17/2020 16:00	WG1445259
Toluene	U		0.00138	0.00550	1	03/17/2020 16:00	WG1445259
Ethylbenzene	U		0.000583	0.00275	1	03/17/2020 16:00	WG1445259
Total Xylenes	U		0.00526	0.00715	1	03/17/2020 16:00	WG1445259
(S) Toluene-d8	105			75.0-131		03/17/2020 16:00	WG1445259
(S) 4-Bromofluorobenzene	98.8			67.0-138		03/17/2020 16:00	WG1445259
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/17/2020 16:00	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.45	J	1.77	4.40	1	03/19/2020 22:40	WG1446556
C28-C40 Oil Range	8.45		0.302	4.40	1	03/19/2020 22:40	WG1446556
(S) o-Terphenyl	68.2			18.0-148		03/19/2020 22:40	WG1446556

SDG: L1199114

SAMPLE RESULTS - 24

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Total Solids by Method 2540 G-2011

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	Result	Qualifier	Dilution	Analysis	Batch		-P
Analyte	%			date / time		2	_
Total Solids	95.6		1	03/19/2020 01:27	WG1445647	T	Гс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	446		0.832	10.5	1	03/18/2020 14:53	WG1444780	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Quanner	mg/kg	mg/kg	Dilution	date / time	batch	
TPH (GC/FID) Low Fraction	0.0392	ВJ	0.0227	0.105	1	03/17/2020 02:25	WG1445120	
1 7	0.0392	<u>D J</u>	0.0227	0.105	1	03/1//2020 02.23	W01445120	
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		03/17/2020 02:25	WG1445120	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	03/17/2020 16:19	WG1445259
Toluene	U		0.00131	0.00523	1	03/17/2020 16:19	WG1445259
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 16:19	WG1445259
Total Xylenes	U		0.00500	0.00680	1	03/17/2020 16:19	WG1445259
(S) Toluene-d8	107			75.0-131		03/17/2020 16:19	WG1445259
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 16:19	WG1445259
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		03/17/2020 16:19	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.76	J	1.68	4.19	1	03/20/2020 07:19	WG1446556
C28-C40 Oil Range	1.61	J	0.287	4.19	1	03/20/2020 07:19	<u>WG1446556</u>
(S) o-Terphenyl	74.3			18.0-148		03/20/2020 07:19	WG1446556

SDG: L1199114

Refeired b0000 : 6/6/2023 9:06:06 AM Collected date/time: 03/05/20 13:10

SAMPLE RESULTS - 25 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	94.7		1	03/19/2020 01:27	WG1445647	Tc

Wet Chemistry by Method 300.0

Wet Chemist	ry by Method 300).0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ C
Chloride	3.69	J	0.839	10.6	1	03/18/2020 15:02	WG1444780	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanner	mg/kg	mg/kg	Dilution	date / time	bach	6
TPH (GC/FID) Low Fraction	0.0548	ВJ	0.0229	0.106	1	03/17/2020 18:13	WG1445660	
(S) a,a,a-Trifluorotoluene(FID)	96.5			77.0-120		03/17/2020 18:13	WG1445660	7

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000422	0.00106	1	03/17/2020 16:38	WG1445259
Toluene	U		0.00132	0.00528	1	03/17/2020 16:38	<u>WG1445259</u>
Ethylbenzene	U		0.000560	0.00264	1	03/17/2020 16:38	WG1445259
Total Xylenes	U		0.00505	0.00686	1	03/17/2020 16:38	WG1445259
(S) Toluene-d8	105			75.0-131		03/17/2020 16:38	WG1445259
(S) 4-Bromofluorobenzene	98.1			67.0-138		03/17/2020 16:38	<u>WG1445259</u>
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/17/2020 16:38	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.98		1.70	4.22	1	03/20/2020 00:59	<u>WG1446556</u>
C28-C40 Oil Range	28.0		0.289	4.22	1	03/20/2020 00:59	<u>WG1446556</u>
(S) o-Terphenyl	62.5			18.0-148		03/20/2020 00:59	WG1446556

SDG: L1199114

SAMPLE RESULTS - 26

ONE LAB. NAPagev121 of 25

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	87.1		1	03/19/2020 01:27	WG1445647	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1780		9.13	115	10	03/18/2020 00:06	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analuta		duamer			Dilation	date / time	Baten	
Analyte	mg/kg		mg/kg	mg/kg				
TPH (GC/FID) Low Fraction	0.0422	<u>B J</u>	0.0249	0.115	1	03/17/2020 06:54	WG1445120	
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 06:54	<u>WG1445120</u>	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000459	0.00115	1	03/17/2020 16:57	<u>WG1445259</u>
Toluene	U		0.00144	0.00574	1	03/17/2020 16:57	<u>WG1445259</u>
Ethylbenzene	U		0.000608	0.00287	1	03/17/2020 16:57	WG1445259
Total Xylenes	U		0.00549	0.00746	1	03/17/2020 16:57	<u>WG1445259</u>
(S) Toluene-d8	106			75.0-131		03/17/2020 16:57	WG1445259
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 16:57	<u>WG1445259</u>
(S) 1,2-Dichloroethane-d4	100			70.0-130		03/17/2020 16:57	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.51		1.85	4.59	1	03/20/2020 00:08	<u>WG1446556</u>
C28-C40 Oil Range	16.9		0.315	4.59	1	03/20/2020 00:08	<u>WG1446556</u>
(S) o-Terphenyl	66.7			18.0-148		03/20/2020 00:08	WG1446556

SDG: L1199114

SAMPLE RESULTS - 27

ONE LAB. NAPagev122 of 25

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	97.4		1	03/19/2020 01:27	WG1445647	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	40.3		0.816	10.3	1	03/18/2020 00:15	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0408	ВJ	0.0223	0.103	1	03/17/2020 07:14	WG1445120	
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 07:14	WG1445120	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000411	0.00103	1	03/17/2020 17:16	WG1445259
Toluene	U		0.00128	0.00514	1	03/17/2020 17:16	<u>WG1445259</u>
Ethylbenzene	U		0.000544	0.00257	1	03/17/2020 17:16	WG1445259
Total Xylenes	U		0.00491	0.00668	1	03/17/2020 17:16	<u>WG1445259</u>
(S) Toluene-d8	106			75.0-131		03/17/2020 17:16	WG1445259
(S) 4-Bromofluorobenzene	96.7			67.0-138		03/17/2020 17:16	<u>WG1445259</u>
(S) 1,2-Dichloroethane-d4	102			70.0-130		03/17/2020 17:16	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.19	J	1.65	4.11	1	03/19/2020 23:05	WG1446556
C28-C40 Oil Range	7.68		0.281	4.11	1	03/19/2020 23:05	<u>WG1446556</u>
(S) o-Terphenyl	66.0			18.0-148		03/19/2020 23:05	WG1446556

SDG: L1199114

SAMPLE RESULTS - 28

ONE LAB. NAPagev123 of 25

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Total Solids by Method 2540 G-2011

	-	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte		%			date / time		2
Total Solids		95.2		1	03/19/2020 01:04	WG1445648	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	174		4.18	52.5	5	03/18/2020 00:24	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0377	<u>B J</u>	0.0228	0.105	1	03/17/2020 07:35	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 07:35	WG1445120

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000420	0.00105	1	03/17/2020 17:35	<u>WG1445259</u>
Toluene	U		0.00131	0.00525	1	03/17/2020 17:35	<u>WG1445259</u>
Ethylbenzene	U		0.000556	0.00262	1	03/17/2020 17:35	WG1445259
Total Xylenes	U		0.00502	0.00682	1	03/17/2020 17:35	<u>WG1445259</u>
(S) Toluene-d8	104			75.0-131		03/17/2020 17:35	WG1445259
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 17:35	<u>WG1445259</u>
(S) 1,2-Dichloroethane-d4	99.3			70.0-130		03/17/2020 17:35	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.20	1	03/20/2020 07:32	<u>WG1446556</u>
C28-C40 Oil Range	3.30	J	0.288	4.20	1	03/20/2020 07:32	<u>WG1446556</u>
(S) o-Terphenyl	60.6			18.0-148		03/20/2020 07:32	WG1446556

SDG: L1199114

Received by OCD: 6/6/2023 9:06:06 AM

Collected date/time: 03/06/20 11:50

SAMPLE RESULTS - 29

ONE LAB. NAPagev124 of 25

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		2	
Total Solids	87.1		1	03/19/2020 01:04	WG1445648	T	Гс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1080		4.57	57.4	5	03/18/2020 00:34	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Quanner	mg/kg	mg/kg	Dilution	date / time	Bateri	
TPH (GC/FID) Low Fraction	0.0556	<u>B J</u>	0.0249	0.115	1	03/17/2020 18:34	WG1445660	[
(S) a,a,a-Trifluorotoluene(FID)	95.1			77.0-120		03/17/2020 18:34	WG1445660	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000459	0.00115	1	03/17/2020 17:54	WG1445259
Toluene	U		0.00144	0.00574	1	03/17/2020 17:54	<u>WG1445259</u>
Ethylbenzene	U		0.000609	0.00287	1	03/17/2020 17:54	WG1445259
Total Xylenes	U		0.00549	0.00746	1	03/17/2020 17:54	<u>WG1445259</u>
(S) Toluene-d8	104			75.0-131		03/17/2020 17:54	WG1445259
(S) 4-Bromofluorobenzene	96.8			67.0-138		03/17/2020 17:54	WG1445259
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		03/17/2020 17:54	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	324		37.0	91.9	20	03/20/2020 02:28	<u>WG1446556</u>
C28-C40 Oil Range	633		6.29	91.9	20	03/20/2020 02:28	<u>WG1446556</u>
(S) o-Terphenyl	67.4	<u>J7</u>		18.0-148		03/20/2020 02:28	WG1446556

SDG: L1199114

SAMPLE RESULTS - 30

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Total Solids by Method 2540 G-2011

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		Result	Qualifier	Dilution	Analysis	Batch		J
4	nalyte	%			date / time		2	
1	otal Solids	89.8		1	03/19/2020 01:04	WG1445648	Tc	÷

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1580		4.43	55.7	5	03/18/2020 00:53	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0442	ВJ	0.0242	0.111	1	03/17/2020 08:16	WG1445120	
(S) a,a,a-Trifluorotoluene(FID)	93.0			77.0-120		03/17/2020 08:16	WG1445120	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000445	0.00111	1	03/17/2020 18:13	WG1445259
Toluene	U		0.00139	0.00557	1	03/17/2020 18:13	<u>WG1445259</u>
Ethylbenzene	U		0.000590	0.00278	1	03/17/2020 18:13	WG1445259
Total Xylenes	U		0.00532	0.00724	1	03/17/2020 18:13	<u>WG1445259</u>
(S) Toluene-d8	104			75.0-131		03/17/2020 18:13	WG1445259
(S) 4-Bromofluorobenzene	99.3			67.0-138		03/17/2020 18:13	<u>WG1445259</u>
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		03/17/2020 18:13	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	416		35.9	89.1	20	03/21/2020 04:09	WG1447675
C28-C40 Oil Range	725		6.10	89.1	20	03/21/2020 04:09	<u>WG1447675</u>
(S) o-Terphenyl	60.3	<u>J7</u>		18.0-148		03/21/2020 04:09	WG1447675

SDG: L1199114

SAMPLE RESULTS - 31

ONE LAB. NAPagev126 of 25

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	93.0		1	03/19/2020 01:04	WG1445648	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1360		4.28	53.8	5	03/18/2020 01:02	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanner	mg/kg	mg/kg	Dilution	date / time	butth	
TPH (GC/FID) Low Fraction	0.0372	ВJ	0.0233	0.108	1	03/17/2020 18:54	WG1445660	
(S) a,a,a-Trifluorotoluene(FID)	97.3			77.0-120		03/17/2020 18:54	WG1445660	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000430	0.00108	1	03/17/2020 18:32	WG1445259
Toluene	U		0.00134	0.00538	1	03/17/2020 18:32	WG1445259
Ethylbenzene	U		0.000570	0.00269	1	03/17/2020 18:32	WG1445259
Total Xylenes	U		0.00514	0.00699	1	03/17/2020 18:32	WG1445259
(S) Toluene-d8	107			75.0-131		03/17/2020 18:32	WG1445259
(S) 4-Bromofluorobenzene	102			67.0-138		03/17/2020 18:32	WG1445259
(S) 1,2-Dichloroethane-d4	99.3			70.0-130		03/17/2020 18:32	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.49		1.73	4.30	1	03/21/2020 13:28	WG1447675
C28-C40 Oil Range	7.75		0.295	4.30	1	03/21/2020 13:28	WG1447675
(S) o-Terphenyl	55.6			18.0-148		03/21/2020 13:28	WG1447675

SDG: L1199114

SAMPLE RESULTS - 32

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	91.7		1	03/19/2020 01:04	WG1445648	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	1320		4.34	54.5	5	03/18/2020 01:12	WG1445291	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Quanner	ma/ka	mg/kg	Dilution	date / time	bach	
TPH (GC/FID) Low Fraction	0.0379	<u>B J</u>	0.0237	0.109	1	03/17/2020 08:57	WG1445120	
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120		03/17/2020 08:57	WG1445120	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000436	0.00109	1	03/17/2020 18:51	WG1445259
Toluene	U		0.00136	0.00545	1	03/17/2020 18:51	WG1445259
Ethylbenzene	U		0.000578	0.00273	1	03/17/2020 18:51	WG1445259
Total Xylenes	U		0.00521	0.00709	1	03/17/2020 18:51	WG1445259
(S) Toluene-d8	105			75.0-131		03/17/2020 18:51	WG1445259
(S) 4-Bromofluorobenzene	98.1			67.0-138		03/17/2020 18:51	WG1445259
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		03/17/2020 18:51	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	24.2		1.76	4.36	1	03/21/2020 02:54	WG1447675
C28-C40 Oil Range	44.4		0.299	4.36	1	03/21/2020 02:54	WG1447675
(S) o-Terphenyl	55.3			18.0-148		03/21/2020 02:54	WG1447675

SDG: L1199114

SAMPLE RESULTS - 33

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	94.7		1	03/19/2020 01:04	WG1445648	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	381		0.840	10.6	1	03/18/2020 01:40	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0440	<u>B J</u>	0.0229	0.106	1	03/17/2020 09:17	WG1445120	
(S) a,a,a-Trifluorotoluene(FID)	96.6			77.0-120		03/17/2020 09:17	WG1445120	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000423	0.00106	1	03/17/2020 19:10	<u>WG1445259</u>
Toluene	U		0.00132	0.00528	1	03/17/2020 19:10	<u>WG1445259</u>
Ethylbenzene	U		0.000560	0.00264	1	03/17/2020 19:10	WG1445259
Total Xylenes	U		0.00505	0.00687	1	03/17/2020 19:10	<u>WG1445259</u>
(S) Toluene-d8	105			75.0-131		03/17/2020 19:10	WG1445259
(S) 4-Bromofluorobenzene	101			67.0-138		03/17/2020 19:10	<u>WG1445259</u>
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		03/17/2020 19:10	WG1445259

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.3		1.70	4.23	1	03/21/2020 03:07	WG1447675
C28-C40 Oil Range	30.8		0.289	4.23	1	03/21/2020 03:07	WG1447675
(S) o-Terphenyl	71.3			18.0-148		03/21/2020 03:07	WG1447675

SDG: L1199114

SAMPLE RESULTS - 34

ONE LAB. NAPagev129 of 25

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	89.4		1	03/19/2020 01:04	WG1445648	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	71.0		0.889	11.2	1	03/18/2020 02:09	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg	duamer	mg/kg	mg/kg	Dilution	date / time	Baten
TPH (GC/FID) Low Fraction	0.0439	ВJ	0.0243	0.112	1	03/17/2020 09:38	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.0			77.0-120		03/17/2020 09:38	WG1445120

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000447	0.00112	1	03/18/2020 08:16	<u>WG1445267</u>
Toluene	U		0.00140	0.00559	1	03/18/2020 08:16	WG1445267
Ethylbenzene	U		0.000593	0.00280	1	03/18/2020 08:16	WG1445267
Total Xylenes	U		0.00534	0.00727	1	03/18/2020 08:16	WG1445267
(S) Toluene-d8	106			75.0-131		03/18/2020 08:16	WG1445267
(S) 4-Bromofluorobenzene	106			67.0-138		03/18/2020 08:16	WG1445267
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/18/2020 08:16	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.6		1.80	4.47	1	03/21/2020 02:41	WG1447675
C28-C40 Oil Range	31.3		0.306	4.47	1	03/21/2020 02:41	WG1447675
(S) o-Terphenyl	58.7			18.0-148		03/21/2020 02:41	WG1447675

SDG: L1199114

SAMPLE RESULTS - 35

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	89.2		1	03/19/2020 01:04	WG1445648	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	158		0.891	11.2	1	03/18/2020 02:18	WG1445291

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

	Result (dry)	Qualifier	MDL (dp)	RDL (dry)	Dilution	Analysis	Patch	
	Result (uly)	Qualifier	MDL (dry)	RDL (ury)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0381	<u>B J</u>	0.0243	0.112	1	03/17/2020 09:58	WG1445120	
(S) a,a,a-Trifluorotoluene(FID)	92.0			77.0-120		03/17/2020 09:58	WG1445120	7.

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000448	0.00112	1	03/18/2020 08:37	WG1445267
Toluene	U		0.00140	0.00561	1	03/18/2020 08:37	WG1445267
Ethylbenzene	U		0.000594	0.00280	1	03/18/2020 08:37	WG1445267
Total Xylenes	U		0.00536	0.00729	1	03/18/2020 08:37	WG1445267
(S) Toluene-d8	105			75.0-131		03/18/2020 08:37	WG1445267
(S) 4-Bromofluorobenzene	93.1			67.0-138		03/18/2020 08:37	WG1445267
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/18/2020 08:37	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	726		36.1	89.7	20	03/21/2020 03:57	WG1447675
C28-C40 Oil Range	1260		6.14	89.7	20	03/21/2020 03:57	WG1447675
(S) o-Terphenyl	82.1	<u>J7</u>		18.0-148		03/21/2020 03:57	WG1447675

SDG: L1199114

Recreiner by 9.20; 6/6/2023 9:06:06 AM Collected date/time: 03/06/20 11:10

SAMPLE RESULTS - 36

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C	ρ
Analyte	%			date / time		2	_
Total Solids	89.4		1	03/19/2020 01:04	WG1445648	Tc	2

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	40.3		0.889	11.2	1	03/18/2020 02:28	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0422	<u>B J</u>	0.0243	0.112	1	03/17/2020 10:18	WG1445120	
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 10:18	WG1445120	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000447	0.00112	1	03/18/2020 08:58	WG1445267
Toluene	U		0.00140	0.00559	1	03/18/2020 08:58	WG1445267
Ethylbenzene	U		0.000593	0.00280	1	03/18/2020 08:58	WG1445267
Total Xylenes	U		0.00535	0.00727	1	03/18/2020 08:58	WG1445267
(S) Toluene-d8	105			75.0-131		03/18/2020 08:58	WG1445267
(S) 4-Bromofluorobenzene	92.9			67.0-138		03/18/2020 08:58	WG1445267
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/18/2020 08:58	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.08	J	1.80	4.47	1	03/21/2020 13:02	WG1447675
C28-C40 Oil Range	2.72	J	0.306	4.47	1	03/21/2020 13:02	WG1447675
(S) o-Terphenyl	48.9			18.0-148		03/21/2020 13:02	WG1447675

SDG: L1199114

SAMPLE RESULTS - 37 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	98.0		1	03/19/2020 01:04	WG1445648	Tc

Wet Chemistry by Method 300.0

Wet Chemistry	y by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	69.4		0.811	10.2	1	03/18/2020 02:37	WG1445291	CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.189	B	0.0221	0.102	1	03/17/2020 10:39	WG1445120
(S) a,a,a-Trifluorotoluene(FID)	96.3			77.0-120		03/17/2020 10:39	WG1445120

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000408	0.00102	1	03/18/2020 09:18	WG1445267
Toluene	U		0.00128	0.00510	1	03/18/2020 09:18	WG1445267
Ethylbenzene	U		0.000541	0.00255	1	03/18/2020 09:18	WG1445267
Total Xylenes	U		0.00488	0.00663	1	03/18/2020 09:18	<u>WG1445267</u>
(S) Toluene-d8	108			75.0-131		03/18/2020 09:18	WG1445267
(S) 4-Bromofluorobenzene	94.4			67.0-138		03/18/2020 09:18	<u>WG1445267</u>
(S) 1,2-Dichloroethane-d4	97.8			70.0-130		03/18/2020 09:18	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.64	4.08	1	03/21/2020 00:48	WG1447675
C28-C40 Oil Range	5.53		0.280	4.08	1	03/21/2020 00:48	WG1447675
(S) o-Terphenyl	61.1			18.0-148		03/21/2020 00:48	WG1447675

SDG: L1199114

SAMPLE RESULTS - 38 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	96.7		1	03/19/2020 00:54	WG1445649	Tc

Wet Chemistry by Method 300.0

Wet Chemist	ry by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	248		0.822	10.3	1	03/18/2020 02:47	WG1445291	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Patch	
	Result (uly)	Qualifier	WDL (ury)	KDL (uly)	Dilution	Analysis	Batch	6
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0414	<u>B J</u>	0.0224	0.103	1	03/17/2020 10:59	WG1445120	L
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		03/17/2020 10:59	WG1445120	7

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000414	0.00103	1	03/18/2020 09:39	<u>WG1445267</u>
Toluene	U		0.00129	0.00517	1	03/18/2020 09:39	<u>WG1445267</u>
Ethylbenzene	U		0.000548	0.00259	1	03/18/2020 09:39	WG1445267
Total Xylenes	U		0.00494	0.00672	1	03/18/2020 09:39	<u>WG1445267</u>
(S) Toluene-d8	107			75.0-131		03/18/2020 09:39	WG1445267
(S) 4-Bromofluorobenzene	94.9			67.0-138		03/18/2020 09:39	<u>WG1445267</u>
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/18/2020 09:39	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.66	4.14	1	03/21/2020 13:15	WG1447675
C28-C40 Oil Range	2.71	J	0.283	4.14	1	03/21/2020 13:15	WG1447675
(S) o-Terphenyl	63.0			18.0-148		03/21/2020 13:15	WG1447675

SDG: L1199114

Received by OCD: 6/6/2023 9:06:06 AM

Collected date/time: 03/06/20 11:50

SAMPLE RESULTS - 39

ONE LAB. NAPagev134 of 25

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	93.1		1	03/19/2020 00:54	WG1445649	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	4360		17.1	215	20	03/18/2020 02:57	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0496	ВJ	0.0233	0.107	1	03/17/2020 19:15	WG1445660
(S) a,a,a-Trifluorotoluene(FID)	94.7			77.0-120		03/17/2020 19:15	WG1445660

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000429	0.00107	1	03/18/2020 10:00	<u>WG1445267</u>
Toluene	U		0.00134	0.00537	1	03/18/2020 10:00	<u>WG1445267</u>
Ethylbenzene	U		0.000569	0.00268	1	03/18/2020 10:00	WG1445267
Total Xylenes	U		0.00513	0.00698	1	03/18/2020 10:00	<u>WG1445267</u>
(S) Toluene-d8	107			75.0-131		03/18/2020 10:00	WG1445267
(S) 4-Bromofluorobenzene	92.8			67.0-138		03/18/2020 10:00	<u>WG1445267</u>
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/18/2020 10:00	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	176		34.6	85.9	20	03/21/2020 03:32	WG1447675
C28-C40 Oil Range	390		5.88	85.9	20	03/21/2020 03:32	WG1447675
(S) o-Terphenyl	77.6	<u>J7</u>		18.0-148		03/21/2020 03:32	WG1447675

SDG: L1199114

Received by OCD: 6/6/2023 9:06:06 AM

Collected date/time: 03/06/20 12:00

SAMPLE RESULTS - 40

ONE LAB. NAPagev135 of 25

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	93.4		1	03/19/2020 00:54	WG1445649	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3800		17.0	214	20	03/18/2020 03:06	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0451	<u>B J</u>	0.0232	0.107	1	03/17/2020 19:35	WG1445660	
(S) a,a,a-Trifluorotoluene(FID)	93.4			77.0-120		03/17/2020 19:35	WG1445660	

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

Result (dry) Qualifier MDL (dry) RDL (dry) Dilution Analysis Batch Analyte mg/kg mg/kg mg/kg date / time date / time Benzene U 0.000428 0.00107 1 03/18/2020 10:21 WG1445267 Toluene U 0.00134 0.00535 1 03/18/2020 10:21 WG1445267 Ethylbenzene U 0.000567 0.00268 1 03/18/2020 10:21 WG1445267 Total Xylenes U 0.00512 0.00696 1 03/18/2020 10:21 WG1445267 (S) Toluene-d8 107 T 75.0-131 03/18/2020 10:21 WG1445267 (S) 1,2-Dichloroethane-d4 100 T 70.0-130 03/18/2020 10:21 WG1445267								
Benzene U 0.000428 0.00107 1 03/18/2020 10:21 WG1445267 Toluene U 0.00134 0.00535 1 03/18/2020 10:21 WG1445267 Ethylbenzene U 0.000567 0.00268 1 03/18/2020 10:21 WG1445267 Total Xylenes U 0.00512 0.00696 1 03/18/2020 10:21 WG1445267 (S) Toluene-d8 107 75.0-131 03/18/2020 10:21 WG1445267 (S) 4-Bromofluorobenzene 95.2 67.0-138 03/18/2020 10:21 WG1445267		Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Toluene U 0.00134 0.00535 1 03/18/2020 10:21 WG1445267 Ethylbenzene U 0.000567 0.00268 1 03/18/2020 10:21 WG1445267 Total Xylenes U 0.00512 0.00696 1 03/18/2020 10:21 WG1445267 (S) Toluene-d8 107 75.0-131 03/18/2020 10:21 WG1445267 (S) 4-Bromofiluorobenzene 95.2 67.0-138 03/18/2020 10:21 WG1445267	Analyte	mg/kg		mg/kg	mg/kg		date / time	
Ethylbenzene U 0.000567 0.00268 1 03/18/2020 10:21 WG1445267 Total Xylenes U 0.00512 0.00696 1 03/18/2020 10:21 WG1445267 (S) Toluene-d8 107 75.0-131 03/18/2020 10:21 WG1445267 (S) 4-Bromofluorobenzene 95.2 67.0-138 03/18/2020 10:21 WG1445267	Benzene	U		0.000428	0.00107	1	03/18/2020 10:21	<u>WG1445267</u>
Total Xylenes U 0.00512 0.00696 1 03/18/2020 10:21 WG1445267 (s) Toluene-d8 107 75.0-131 03/18/2020 10:21 WG1445267 (s) 4-Bromofiluorobenzene 95.2 67.0-138 03/18/2020 10:21 WG1445267	Toluene	U		0.00134	0.00535	1	03/18/2020 10:21	<u>WG1445267</u>
(S) Toluene-d8 107 75.0-131 03/18/2020 10:21 WG1445267 (S) 4-Bromofluorobenzene 95.2 67.0-138 03/18/2020 10:21 WG1445267	Ethylbenzene	U		0.000567	0.00268	1	03/18/2020 10:21	WG1445267
(S) 4-Bromofluorobenzene 95.2 67.0-138 03/18/2020 10:21 WG1445267	Total Xylenes	U		0.00512	0.00696	1	03/18/2020 10:21	<u>WG1445267</u>
	(S) Toluene-d8	107			75.0-131		03/18/2020 10:21	WG1445267
(S) 1,2-Dichloroethane-d4 100 70.0-130 03/18/2020 10:21 WG1445267	(S) 4-Bromofluorobenzene	95.2			67.0-138		03/18/2020 10:21	<u>WG1445267</u>
	(S) 1,2-Dichloroethane-d4	100			70.0-130		03/18/2020 10:21	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	80.3		17.2	42.8	10	03/21/2020 03:44	WG1447675
C28-C40 Oil Range	172		2.93	42.8	10	03/21/2020 03:44	WG1447675
(S) o-Terphenyl	35.5			18.0-148		03/21/2020 03:44	WG1447675

SDG: L1199114

Received_by OCD: 6/6/2023 9:06:06 AM

Collected date/time: 03/06/20 12:10

SAMPLE RESULTS - 41

ONE LAB. NAPagev136 of \$25

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Total Solids by Method 2540 G-2011

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	Result	Qualifier	Dilution	Analysis	Batch		-h
Analyte	%			date / time		2	
Total Solids	93.3		1	03/19/2020 00:54	WG1445649	T	Τс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	6720		17.0	214	20	03/18/2020 03:35	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Guainier	mg/kg	mg/kg	Dilution	date / time	baten	
TPH (GC/FID) Low Fraction	0.0327	ВJ	0.0233	0.107	1	03/20/2020 16:07	WG1447538	
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		03/20/2020 16:07	WG1447538	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000429	0.00107	1	03/18/2020 10:41	<u>WG1445267</u>
Toluene	U		0.00134	0.00536	1	03/18/2020 10:41	<u>WG1445267</u>
Ethylbenzene	U		0.000568	0.00268	1	03/18/2020 10:41	WG1445267
Total Xylenes	U		0.00512	0.00697	1	03/18/2020 10:41	WG1445267
(S) Toluene-d8	107			75.0-131		03/18/2020 10:41	WG1445267
(S) 4-Bromofluorobenzene	93.4			67.0-138		03/18/2020 10:41	WG1445267
(S) 1,2-Dichloroethane-d4	101			70.0-130		03/18/2020 10:41	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.34		1.73	4.29	1	03/21/2020 01:00	WG1447675
C28-C40 Oil Range	13.7		0.294	4.29	1	03/21/2020 01:00	WG1447675
(S) o-Terphenyl	53.5			18.0-148		03/21/2020 01:00	WG1447675

SDG: L1199114

SAMPLE RESULTS - 42

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	94.2		1	03/19/2020 00:54	WG1445649	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	4830		16.9	212	20	03/18/2020 03:44	WG1445291

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	qualifier	mg/kg	mg/kg	Dilation	date / time	Baten	6
TPH (GC/FID) Low Fraction	0.0665	ВJ	0.0230	0.106	1	03/17/2020 07:31	WG1445128	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 07:31	WG1445128	7

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000424	0.00106	1	03/18/2020 11:02	WG1445267
Toluene	U		0.00133	0.00531	1	03/18/2020 11:02	WG1445267
Ethylbenzene	U		0.000562	0.00265	1	03/18/2020 11:02	WG1445267
Total Xylenes	U		0.00507	0.00690	1	03/18/2020 11:02	<u>WG1445267</u>
(S) Toluene-d8	105			75.0-131		03/18/2020 11:02	WG1445267
(S) 4-Bromofluorobenzene	91.9			67.0-138		03/18/2020 11:02	<u>WG1445267</u>
(S) 1,2-Dichloroethane-d4	103			70.0-130		03/18/2020 11:02	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.42		1.71	4.24	1	03/21/2020 01:13	WG1447675
C28-C40 Oil Range	12.8		0.291	4.24	1	03/21/2020 01:13	WG1447675
(S) o-Terphenyl	61.2			18.0-148		03/21/2020 01:13	WG1447675

SDG: L1199114

SAMPLE RESULTS - 43

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Total Solids by Method 2540 G-2011

	 Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	94.4		1	03/19/2020 00:54	<u>WG1445649</u>	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	295		0.842	10.6	1	03/18/2020 03:54	WG1445291	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanter	mg/kg	mg/kg	Dilation	date / time	Batch	
TPH (GC/FID) Low Fraction	0.0606	<u>B J</u>	0.0230	0.106	1	03/17/2020 07:53	WG1445128	
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120		03/17/2020 07:53	WG1445128	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000424	0.00106	1	03/18/2020 11:23	WG1445267
Toluene	U		0.00132	0.00530	1	03/18/2020 11:23	WG1445267
Ethylbenzene	U		0.000561	0.00265	1	03/18/2020 11:23	WG1445267
Total Xylenes	U		0.00506	0.00689	1	03/18/2020 11:23	WG1445267
(S) Toluene-d8	91.5			75.0-131		03/18/2020 11:23	WG1445267
(S) 4-Bromofluorobenzene	95.3			67.0-138		03/18/2020 11:23	WG1445267
(S) 1,2-Dichloroethane-d4	116			70.0-130		03/18/2020 11:23	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	949		85.3	212	50	03/21/2020 03:19	WG1447675
C28-C40 Oil Range	1920		14.5	212	50	03/21/2020 03:19	WG1447675
(S) o-Terphenyl	77.8	<u>J7</u>		18.0-148		03/21/2020 03:19	WG1447675

SDG: L1199114

SAMPLE RESULTS - 44 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	96.4		1	03/19/2020 00:54	WG1445649	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0 ³ Ss									³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			4 Cn
Chloride	302		0.825	10.4	1	03/18/2020 04:03	WG1445291		

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	dunner	mg/kg	mg/kg	Dilation	date / time	Baten	
TPH (GC/FID) Low Fraction	0.0505	BJ	0.0225	0.104	1	03/17/2020 08:25	WG1445128	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 08:25	WG1445128	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000415	0.00104	1	03/18/2020 11:43	<u>WG1445267</u>
Toluene	U		0.00130	0.00519	1	03/18/2020 11:43	WG1445267
Ethylbenzene	U		0.000550	0.00259	1	03/18/2020 11:43	WG1445267
Total Xylenes	U		0.00496	0.00675	1	03/18/2020 11:43	<u>WG1445267</u>
(S) Toluene-d8	89.9			75.0-131		03/18/2020 11:43	WG1445267
(S) 4-Bromofluorobenzene	89.3			67.0-138		03/18/2020 11:43	<u>WG1445267</u>
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/18/2020 11:43	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.94	J	1.67	4.15	1	03/21/2020 01:26	WG1447675
C28-C40 Oil Range	7.12		0.284	4.15	1	03/21/2020 01:26	<u>WG1447675</u>
(S) o-Terphenyl	69.6			18.0-148		03/21/2020 01:26	WG1447675

SDG: L1199114

SAMPLE RESULTS - 45

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	98.9		1	03/19/2020 00:54	WG1445649	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	2.92	<u>B J</u>	0.804	10.1	1	03/18/2020 00:58	WG1445292	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	e
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0670	ВJ	0.0219	0.101	1	03/17/2020 09:13	WG1445128	L
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		03/17/2020 09:13	WG1445128	7

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000405	0.00101	1	03/18/2020 12:04	<u>WG1445267</u>
Toluene	U		0.00126	0.00506	1	03/18/2020 12:04	<u>WG1445267</u>
Ethylbenzene	U		0.000536	0.00253	1	03/18/2020 12:04	WG1445267
Total Xylenes	U		0.00483	0.00657	1	03/18/2020 12:04	WG1445267
(S) Toluene-d8	101			75.0-131		03/18/2020 12:04	WG1445267
(S) 4-Bromofluorobenzene	92.1			67.0-138		03/18/2020 12:04	WG1445267
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		03/18/2020 12:04	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.63	4.05	1	03/21/2020 01:38	WG1447675
C28-C40 Oil Range	7.73		0.277	4.05	1	03/21/2020 01:38	WG1447675
(S) o-Terphenyl	60.1			18.0-148		03/21/2020 01:38	WG1447675

SDG: L1199114

Recreined by (3CP; 6/6/2023 9:06:06 AM Collected date/time: 03/09/20 11:10

SAMPLE RESULTS - 46 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	96.6		1	03/19/2020 00:54	WG1445649	Tc

Wet Chemistry by Method 300.0

Wet Chemist	ry by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴Cn
Chloride	3.32	<u>B J</u>	0.823	10.3	1	03/18/2020 01:51	WG1445292	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanter	mg/kg	mg/kg	Dilution	date / time	Baten	6
TPH (GC/FID) Low Fraction	0.0556	<u>B J</u>	0.0225	0.103	1	03/17/2020 09:57	WG1445128	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 09:57	WG1445128	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000414	0.00103	1	03/18/2020 12:24	WG1445267
Toluene	U		0.00129	0.00517	1	03/18/2020 12:24	WG1445267
Ethylbenzene	U		0.000549	0.00259	1	03/18/2020 12:24	WG1445267
Total Xylenes	U		0.00495	0.00673	1	03/18/2020 12:24	<u>WG1445267</u>
(S) Toluene-d8	124			75.0-131		03/18/2020 12:24	<u>WG1445267</u>
(S) 4-Bromofluorobenzene	94.6			67.0-138		03/18/2020 12:24	<u>WG1445267</u>
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/18/2020 12:24	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.79	J	1.67	4.14	1	03/21/2020 02:29	WG1447675
C28-C40 Oil Range	18.2		0.284	4.14	1	03/21/2020 02:29	WG1447675
(S) o-Terphenyl	72.1			18.0-148		03/21/2020 02:29	WG1447675

SDG: L1199114

SAMPLE RESULTS - 47 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	98.6		1	03/19/2020 00:54	WG1445649	Tc

Wet Chemistry by Method 300.0

Wet Chemistry	by Method 300).0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	2.67	ВJ	0.806	10.1	1	03/18/2020 02:09	WG1445292	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Guainier	mg/kg	mg/kg	Dilution	date / time	Bateri	6 C
TPH (GC/FID) Low Fraction	0.0675	ВJ	0.0220	0.101	1	03/17/2020 10:20	WG1445128	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 10:20	WG1445128	⁷ G

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000406	0.00101	1	03/18/2020 12:45	<u>WG1445267</u>
Toluene	U		0.00127	0.00507	1	03/18/2020 12:45	<u>WG1445267</u>
Ethylbenzene	U		0.000537	0.00253	1	03/18/2020 12:45	WG1445267
Total Xylenes	U		0.00485	0.00659	1	03/18/2020 12:45	<u>WG1445267</u>
(S) Toluene-d8	105			75.0-131		03/18/2020 12:45	WG1445267
(S) 4-Bromofluorobenzene	91.0			67.0-138		03/18/2020 12:45	WG1445267
(S) 1,2-Dichloroethane-d4	104			70.0-130		03/18/2020 12:45	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.91	J	1.63	4.06	1	03/21/2020 01:51	WG1447675
C28-C40 Oil Range	8.03		0.278	4.06	1	03/21/2020 01:51	WG1447675
(S) o-Terphenyl	67.3			18.0-148		03/21/2020 01:51	WG1447675

SDG: L1199114

SAMPLE RESULTS - 48 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	96.0		1	03/19/2020 00:43	WG1445651	Tc

Wet Chemistry by Method 300.0

Wet Chemistr	ry by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	3.96	ВJ	0.828	10.4	1	03/18/2020 02:27	WG1445292	

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

Volatile Organic C	ompounds ((GC) by Me	ethod 8015	5D/GRO				⁵ Sr
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		ိုင္ရင
TPH (GC/FID) Low Fraction	0.0729	ВJ	0.0226	0.104	1	03/17/2020 10:42	WG1445128	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 10:42	WG1445128	⁷ Gl

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000417	0.00104	1	03/18/2020 13:06	<u>WG1445267</u>
Toluene	U		0.00130	0.00521	1	03/18/2020 13:06	WG1445267
Ethylbenzene	U		0.000552	0.00261	1	03/18/2020 13:06	WG1445267
Total Xylenes	U		0.00498	0.00677	1	03/18/2020 13:06	WG1445267
(S) Toluene-d8	105			75.0-131		03/18/2020 13:06	WG1445267
(S) 4-Bromofluorobenzene	89.9			67.0-138		03/18/2020 13:06	WG1445267
(S) 1,2-Dichloroethane-d4	115			70.0-130		03/18/2020 13:06	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.15	J	1.68	4.17	1	03/21/2020 02:03	WG1447675
C28-C40 Oil Range	8.49		0.286	4.17	1	03/21/2020 02:03	WG1447675
(S) o-Terphenyl	71.7			18.0-148		03/21/2020 02:03	WG1447675

SDG: L1199114

SAMPLE RESULTS - 49

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Total Solids by Method 2540 G-2011

	-	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte		%			date / time		2
Total Solids		91.9		1	03/19/2020 00:43	WG1445651	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	838		4.33	54.4	5	03/18/2020 02:45	WG1445292	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg	quanter	mg/kg	mg/kg	Diration	date / time	batch
TPH (GC/FID) Low Fraction	0.0648	ВJ	0.0236	0.109	1	03/17/2020 11:03	WG1445128
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		03/17/2020 11:03	WG1445128

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000435	0.00109	1	03/18/2020 13:26	<u>WG1445267</u>
Toluene	U		0.00136	0.00544	1	03/18/2020 13:26	<u>WG1445267</u>
Ethylbenzene	U		0.000577	0.00272	1	03/18/2020 13:26	WG1445267
Total Xylenes	U		0.00520	0.00707	1	03/18/2020 13:26	<u>WG1445267</u>
(S) Toluene-d8	103			75.0-131		03/18/2020 13:26	WG1445267
(S) 4-Bromofluorobenzene	91.1			67.0-138		03/18/2020 13:26	<u>WG1445267</u>
(S) 1,2-Dichloroethane-d4	114			70.0-130		03/18/2020 13:26	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	20.4		1.75	4.35	1	03/21/2020 02:16	WG1447675
C28-C40 Oil Range	36.3		0.298	4.35	1	03/21/2020 02:16	WG1447675
(S) o-Terphenyl	50.5			18.0-148		03/21/2020 02:16	WG1447675

SDG: L1199114

Received by OSP: 6/6/2023 9:06:06 AM Collected date/time: 03/09/20 12:20 SAMPLE RESULTS - 50

ONE LAB. NARage 145 of 425

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	95.6		1	03/19/2020 00:43	WG1445651	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	432		0.832	10.5	1	03/18/2020 03:03	WG1445292	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		-
Analyte	mg/kg	Quanter	mg/kg	mg/kg	Dilution	date / time	baten		6 G
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1	03/17/2020 11:14	WG1445199	[
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120		03/17/2020 11:14	<u>WG1445199</u>	Ē	⁷ G

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	03/18/2020 13:47	WG1445267
Toluene	U		0.00131	0.00523	1	03/18/2020 13:47	WG1445267
Ethylbenzene	U		0.000555	0.00262	1	03/18/2020 13:47	WG1445267
Total Xylenes	U		0.00500	0.00680	1	03/18/2020 13:47	WG1445267
(S) Toluene-d8	103			75.0-131		03/18/2020 13:47	WG1445267
(S) 4-Bromofluorobenzene	90.9			67.0-138		03/18/2020 13:47	WG1445267
(S) 1,2-Dichloroethane-d4	111			70.0-130		03/18/2020 13:47	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.68	4.19	1	03/20/2020 00:31	<u>WG1447038</u>
C28-C40 Oil Range	1.57	J	0.287	4.19	1	03/20/2020 00:31	<u>WG1447038</u>
(S) o-Terphenyl	72.0			18.0-148		03/20/2020 00:31	WG1447038

SDG: L1199114 DATE/TIME: 03/24/20 18:17 **Receiverby OCP: 6/6/2023 9:06:06 AM** Collected date/time: 03/09/20 13:00

SAMPLE RESULTS - 51

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	C	_p
Analyte	%			date / time		2	_
Total Solids	90.5		1	03/19/2020 00:43	WG1445651	ŤΤ	С

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	2690		8.78	110	10	03/18/2020 03:57	WG1445292

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanter	mg/kg	mg/kg	Diration	date / time	Baten	⁶ C
TPH (GC/FID) Low Fraction	U		0.0240	0.110	1	03/17/2020 11:38	WG1445199	
(S) a,a,a-Trifluorotoluene(FID)	99.9			77.0-120		03/17/2020 11:38	<u>WG1445199</u>	⁷ G

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000442	0.00110	1	03/18/2020 14:07	<u>WG1445267</u>
Toluene	U		0.00138	0.00552	1	03/18/2020 14:07	WG1445267
Ethylbenzene	U		0.000585	0.00276	1	03/18/2020 14:07	WG1445267
Total Xylenes	U		0.00528	0.00718	1	03/18/2020 14:07	<u>WG1445267</u>
(S) Toluene-d8	105			75.0-131		03/18/2020 14:07	WG1445267
(S) 4-Bromofluorobenzene	91.4			67.0-138		03/18/2020 14:07	<u>WG1445267</u>
(S) 1,2-Dichloroethane-d4	113			70.0-130		03/18/2020 14:07	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.78	4.42	1	03/20/2020 00:45	WG1447038
C28-C40 Oil Range	1.60	J	0.303	4.42	1	03/20/2020 00:45	<u>WG1447038</u>
(S) o-Terphenyl	72.6			18.0-148		03/20/2020 00:45	WG1447038

SDG: L1199114 DATE/TIME: 03/24/20 18:17

Received by (OCP) 6/6/2023 9:06:06 AM Collected date/time: 03/10/20 10:50

SAMPLE RESULTS - 52

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Total Solids by Method 2540 G-2011

		Result	Qualifier	Dilution	Analysis	Batch		Ср
1	Analyte	%			date / time		2	
	otal Solids	93.6		1	03/19/2020 00:43	WG1445651	T	Гс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	3030		8.50	107	10	03/18/2020 04:15	WG1445292

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	dunner	mg/kg	mg/kg	Dilution	date / time	batem	6 C
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	03/17/2020 12:14	WG1445199	
(S) a,a,a-Trifluorotoluene(FID)	99.2			77.0-120		03/17/2020 12:14	WG1445199	⁷ (-

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/18/2020 14:28	WG1445267
Toluene	U		0.00134	0.00534	1	03/18/2020 14:28	WG1445267
Ethylbenzene	U		0.000567	0.00267	1	03/18/2020 14:28	WG1445267
Total Xylenes	U		0.00511	0.00695	1	03/18/2020 14:28	WG1445267
(S) Toluene-d8	107			75.0-131		03/18/2020 14:28	WG1445267
(S) 4-Bromofluorobenzene	93.2			67.0-138		03/18/2020 14:28	WG1445267
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		03/18/2020 14:28	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.46	J	1.72	4.28	1	03/20/2020 10:45	WG1447038
C28-C40 Oil Range	10.8		0.293	4.28	1	03/20/2020 10:45	WG1447038
(S) o-Terphenyl	77.0			18.0-148		03/20/2020 10:45	WG1447038

SDG: L1199114 DATE/TIME: 03/24/20 18:17

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SAMPLE RESULTS - 53 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	93.2		1	03/19/2020 00:43	WG1445651	Tc

Wet Chemistry by Method 300.0

Wet Chemist	ry by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cr
Chloride	42.6		0.853	10.7	1	03/18/2020 04:32	WG1445292	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quantor	mg/kg	mg/kg	2.100.011	date / time		
TPH (GC/FID) Low Fraction	U		0.0233	0.107	1	03/18/2020 17:19	WG1446150	
(S) a,a,a-Trifluorotoluene(FID)	97.0			77.0-120		03/18/2020 17:19	WG1446150	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg	duamer	mg/kg	mg/kg	2.101.011	date / time	
Benzene	U	<u>J3</u>	0.000429	0.00107	1	03/18/2020 14:48	WG1445267
Toluene	U	<u>J3</u>	0.00134	0.00537	1	03/18/2020 14:48	WG1445267
Ethylbenzene	U	<u>J3</u>	0.000569	0.00268	1	03/18/2020 14:48	<u>WG1445267</u>
Total Xylenes	U	<u>J3</u>	0.00513	0.00697	1	03/18/2020 14:48	<u>WG1445267</u>
(S) Toluene-d8	107			75.0-131		03/18/2020 14:48	<u>WG1445267</u>
(S) 4-Bromofluorobenzene	93.1			67.0-138		03/18/2020 14:48	WG1445267
(S) 1,2-Dichloroethane-d4	107			70.0-130		03/18/2020 14:48	WG1445267

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.73	4.29	1	03/20/2020 10:59	WG1447038
C28-C40 Oil Range	5.92		0.294	4.29	1	03/20/2020 10:59	WG1447038
(S) o-Terphenyl	68.7			18.0-148		03/20/2020 10:59	WG1447038

SDG: L1199114

DATE/TIME: 03/24/20 18:17 Receiped by OGD: 6/6/2023 9:06:06 AM Collected date/time: 03/10/20 11:10 SAMPLE RESULTS - 54

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	_	Ср
Analyte	%			date / time			2
Total Solids	95.5		1	03/19/2020 00:43	WG1445651		Тс

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	3.39	ВJ	0.833	10.5	1	03/18/2020 05:26	WG1445292	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Quanter	mg/kg	mg/kg	Dilution	date / time	baten	6 C
TPH (GC/FID) Low Fraction	U		0.0227	0.105	1	03/17/2020 13:02	WG1445199	
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120		03/17/2020 13:02	WG1445199	7

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000419	0.00105	1	03/17/2020 17:30	WG1445419
Toluene	U		0.00131	0.00524	1	03/17/2020 17:30	<u>WG1445419</u>
Ethylbenzene	U		0.000555	0.00262	1	03/17/2020 17:30	WG1445419
Total Xylenes	U		0.00501	0.00681	1	03/17/2020 17:30	<u>WG1445419</u>
(S) Toluene-d8	102			75.0-131		03/17/2020 17:30	WG1445419
(S) 4-Bromofluorobenzene	100			67.0-138		03/17/2020 17:30	<u>WG1445419</u>
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		03/17/2020 17:30	WG1445419

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	8.83		1.69	4.19	1	03/20/2020 10:32	WG1447038
C28-C40 Oil Range	28.8		0.287	4.19	1	03/20/2020 10:32	WG1447038
(S) o-Terphenyl	73.9			18.0-148		03/20/2020 10:32	WG1447038

SDG: L1199114 DATE/TIME: 03/24/20 18:17

Received by 9-QD; 6/6/2023 9:06:06 AM Collected date/time: 03/10/20 11:20

SAMPLE RESULTS - 55 L1199114

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	93.5		1	03/19/2020 00:43	WG1445651	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			4 Cn
Chloride	45.7		0.850	10.7	1	03/18/2020 05:44	WG1445292		

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	03/17/2020 13:26	WG1445199	
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		03/17/2020 13:26	WG1445199	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000428	0.00107	1	03/17/2020 17:49	<u>WG1445419</u>
Toluene	U		0.00134	0.00535	1	03/17/2020 17:49	<u>WG1445419</u>
Ethylbenzene	U		0.000567	0.00267	1	03/17/2020 17:49	<u>WG1445419</u>
Total Xylenes	U		0.00511	0.00695	1	03/17/2020 17:49	<u>WG1445419</u>
(S) Toluene-d8	101			75.0-131		03/17/2020 17:49	<u>WG1445419</u>
(S) 4-Bromofluorobenzene	101			67.0-138		03/17/2020 17:49	<u>WG1445419</u>
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		03/17/2020 17:49	WG1445419

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.82	J	1.72	4.28	1	03/20/2020 10:18	WG1447038
C28-C40 Oil Range	16.5		0.293	4.28	1	03/20/2020 10:18	WG1447038
(S) o-Terphenyl	76.7			18.0-148		03/20/2020 10:18	WG1447038

SDG: L1199114

DATE/TIME: 03/24/20 18:17 Received by OCD: 6/6/2023 9:06:06 AM Collected date/time: 03/10/20 11:30 SAMPLE RESULTS - 56

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	82.9		1	03/19/2020 00:43	WG1445651	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Chloride	225		4.80	60.3	5	03/18/2020 06:02	WG1445292

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.177		0.0262	0.121	1	03/17/2020 13:50	WG1445199	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		03/17/2020 13:50	WG1445199	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000483	0.00121	1	03/17/2020 18:08	WG1445419
Toluene	U		0.00151	0.00603	1	03/17/2020 18:08	WG1445419
Ethylbenzene	U		0.000640	0.00302	1	03/17/2020 18:08	WG1445419
Total Xylenes	U		0.00577	0.00784	1	03/17/2020 18:08	<u>WG1445419</u>
(S) Toluene-d8	103			75.0-131		03/17/2020 18:08	WG1445419
(S) 4-Bromofluorobenzene	99.5			67.0-138		03/17/2020 18:08	<u>WG1445419</u>
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		03/17/2020 18:08	WG1445419

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	11.8		1.94	4.83	1	03/20/2020 00:58	WG1447038
C28-C40 Oil Range	14.2		0.331	4.83	1	03/20/2020 00:58	WG1447038
(S) o-Terphenyl	45.0			18.0-148		03/20/2020 00:58	WG1447038

SDG: L1199114 DATE/TIME: 03/24/20 18:17 Received by 1300: 6/6/2023 9:06:06 AM Collected date/time: 03/10/20 12:10

SAMPLE RESULTS - 57

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	95.1		1	03/19/2020 00:43	WG1445651	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	545		0.836	10.5	1	03/18/2020 06:20	WG1445292	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	0.0631	ВJ	0.0228	0.105	1	03/17/2020 09:35	WG1445128	
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		03/17/2020 09:35	WG1445128	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000420	0.00105	1	03/17/2020 18:27	WG1445419
Toluene	U		0.00131	0.00526	1	03/17/2020 18:27	WG1445419
Ethylbenzene	U		0.000557	0.00263	1	03/17/2020 18:27	WG1445419
Total Xylenes	U		0.00502	0.00683	1	03/17/2020 18:27	WG1445419
(S) Toluene-d8	102			75.0-131		03/17/2020 18:27	WG1445419
(S) 4-Bromofluorobenzene	101			67.0-138		03/17/2020 18:27	WG1445419
(S) 1,2-Dichloroethane-d4	97.9			70.0-130		03/17/2020 18:27	<u>WG1445419</u>

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.69	4.20	1	03/20/2020 09:52	<u>WG1447038</u>
C28-C40 Oil Range	0.557	J	0.288	4.20	1	03/20/2020 09:52	<u>WG1447038</u>
(S) o-Terphenyl	79.6			18.0-148		03/20/2020 09:52	WG1447038

SDG: L1199114 DATE/TIME: 03/24/20 18:17

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1199114-01,02,03,04,05,06,07,08

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Method Blank (MB)

Method Dialik						
(MB) R3510267-1 03	3/19/20 01:48			-		
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	%		%	%		
Total Solids	0.000					

L1199114-01 Original Sample (OS) • Duplicate (DUP)

L1199114-01 Origina	Il Sample ((DS) • Dupl	icate (D	UP)		
S) L1199114-01 03/19/20	01:48 • (DUP)	R3510267-3 (03/19/20 0 [,]	1:48		
	Original Result	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
nalyte	%	%		%		%
Total Solids	95.9	96.0	1	0.114		10

Laboratory Control Sample (LCS)

(LCS) R3510267-2 03/1	19/20 01:48				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1199114

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY

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L1199114-09,10,11,12,13,14,15,16,17,18

Method Blank (MB)

Method Blank	(MB)					1 C p
(MB) R3510263-1 (3/19/20 01:36					Ср
	MB Result	MB Qualifier	MB MDL	MB RDL		2
Analyte	%		%	%		Tc
Total Solids	0.000					
						³ Ss

L1199114-12 Original Sample (OS) • Duplicate (DUP)

L1199114-12 Origina	al Sample (C	DS) • Dupli	cate (D	UP)		
(OS) L1199114-12 03/19/20) 01:36 • (DUP) R	83510263-3 0	3/19/20 0′	1:36		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	94.6	94.5	1	0.0688		10

Laboratory Control Sample (LCS)

(LCS) R3510263-2 03	/19/20 01:36				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.1	100	85.0-115	

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1199114-19,20,21,22,23,24,25,26,27

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(MB) R3510262-1 0	3/19/20 01:27				- -
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	%		%	%	T
Total Solids	0.000				
					3

L1199114-20 Original Sample (OS) • Duplicate (DUP)

L1199114-20 Origin	al Sample (OS) • Dupl	licate (D	OUP)		
(OS) L1199114-20 03/19/2	0 01:27 • (DUP)	R3510262-3 (03/19/20 0)1:27		
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	92.2	92.5	1	0.225		10

Laboratory Control Sample (LCS)

(LCS) R3510262-2 03/19/20 01:27									
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	%	%	%	%					
Total Solids	50.0	50.0	100	85.0-115					

SDG: L1199114

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1199114-28,29,30,31,32,33,34,35,36,37

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Method Blank (MB)

Method Blank	: (MB)					Cn
(MB) R3510259-1 0)3/19/20 01:04					Ch
	MB Result	MB Qualifier	MB MDL	MB RDL	2	
Analyte	%		%	%		Tc
Total Solids	0.000					
					3	Ss

L1199114-30 Original Sample (OS) • Duplicate (DUP)

Laboratory Control Sample (LCS)

(LCS) R3510259-2 03/19/20 01:04									
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	%	%	%	%					
Total Solids	50.0	50.0	100	85.0-115					

SDG: L1199114

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1199114-38,39,40,41,42,43,44,45,46,47

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Method Blank (MB)

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3/19/20 00:54					1
MB Result	MB Qualifier	MB MDL	1B RDL		
%		%	Ś		
0.00100					
	/19/20 00:54 MB Result %	/19/20 00:54 MB Result <u>MB Qualifier</u> %	/19/20 00:54 MB Result <u>MB Qualifier</u> MB MDL M % % %	/19/20 00:54 MB Result <u>MB Qualifier</u> MB MDL MB RDL % % %	/19/20 00:54 MB Result MB Qualifier MB MDL MB RDL % % %

L1199114-47 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-47 03/19/20 00:54 • (DUP) R3510249-3 03/19/20 00:54								
	Original Res	sult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		
Analyte	%	%		%		%		
Total Solids	98.6	98.6	1	0.00943		10		

Laboratory Control Sample (LCS)

(LCS) R3510249-2 03/19/20 00:54									
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	%	%	%	%					
Total Solids	50.0	50.0	100	85.0-115					

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1199114-48,49,50,51,52,53,54,55,56,57

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Method Blank (MB)

Method Bidlin					1 Cn
(MB) R3510245-1 (3/19/20 00:43				Ср
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	%		%	%	⁻Tc
Total Solids	0.0160				
					³ Ss

L1199114-49 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-49 03/19/20 00:43 • (DUP) R3510245-3 03/19/20 00:43								
	Original Re	sult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		
Analyte	%	%		%		%		
Total Solids	91.9	92.0	1	0.0850		10		

Laboratory Control Sample (LCS)

(LCS) R3510245-2 03/19/20 00:43								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	%	%	%	%				
Total Solids	50.0	49.8	99.7	85.0-115				

SDG: L1199114 DATE/TIME: 03/24/20 18:17 PAGE: 79 of 109

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1199114-01,02,03,04,05

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Method Blank (MB)

(MB) R3510072-1 03/18/20 16:03							
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/kg		mg/kg	mg/kg			
Chloride	1.57	J	0.795	10.0			

L1199114-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-05 03/18/20	0 20:48 • (DUP)	R3510072-6	03/18/20 2	20:58		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	38.0	39.9	1	4.81		20

L1199095-34 Original Sample (OS) • Duplicate (DUP)

L1199095-34 O	riginal Sample	(OS) • Du	plicate (DUP)			⁷ Gl
(OS) L1199095-34 03	3/18/20 21:08 • (DUP)	R3510072-7	03/18/20	21:17			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	JP RPD nits	⁸ Al
Analyte	mg/kg	mg/kg		%			
Chloride	12800	13000	20	1.24			⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3510072-2 03/18/	20 16:12				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	188	94.0	90.0-110	

L1199095-46 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199095-46 03/18/2	20 18:54 • (MS) F	R3510072-4 03	3/18/20 19:04 •	(MSD) R35100	72-5 03/18/20	D 19:13						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	FOO	11200	12900	12900	328	335	1	80.0-120	F \/	E \/	0.270	20

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1199114-06,07,08,09,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25

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Method Blank (MB)

(MB) R3509981-1 03	/18/20 10:14			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		0.795	10.0

L1199114-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-06 03/18/2	0 10:55 • (DUP) F	R3509981-3	03/18/20 1′	1:04		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	628	672	1	6.75		20

L1199114-25 Original Sample (OS) • Duplicate (DUP)

L1199114-25 (Driginal Sample (OS) • Dup	licate (D	OUP)			⁷ GI
(OS) L1199114-25	03/18/20 15:02 · (DUP)	R3509981-6	03/18/20 1	5:12			
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	IP RPD nits	⁸ A
Analyte	mg/kg	mg/kg		%			
Chloride	3.69	3.75	1	1.62	Ţ		°So

Laboratory Control Sample (LCS)

(LCS) R3509981-2 03/18/	/20 10:24				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	185	92.7	90.0-110	

L1199114-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-12 03/18/20	12:01 • (MS) R3	509981-4 03/1	8/20 12:30 • (N	ISD) R3509981	-5 03/18/20 12	2:39						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	529	209	797	737	111	99.8	1	80.0-120			7.77	20

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QUALITY CONTROL SUMMARY L1199114-26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44

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Method Blank (MB)

(MB) R3509647-1 ()3/17/20 23:34					
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	mg/kg		mg/kg	mg/kg		
Chloride	2.44	J	0.795	10.0		

L1199114-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1199114-29 03/18/20	0 00:34 • (DUP)	R3509647-3	03/18/20 (00:43				
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits		
Analyte	mg/kg	mg/kg		%		%		
Chloride	1080	1080	5	0.547		20		

L1199596-01 Original Sample (OS) • Duplicate (DUP)

L1199596-01 Ori	ginal Sample ((OS) • Dup	licate (Г	DUP)			⁷ Gl
(OS) L1199596-01 03/	18/20 04:13 • (DUP)	R3509647-6	03/18/20	04:22			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	⁸ Al
Analyte	mg/kg	mg/kg		%		%	
Chloride	12.9	12.0	1	7.33		20	°Sc

Laboratory Control Sample (LCS)

(LCS) R3509647-2 03/17/20 23:44							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/kg	mg/kg	%	%			
Chloride	200	192	96.2	90.0-110			

L1199114-33 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-33 03/18/20	0 01:40 • (MS) R	3509647-4 03	/18/20 01:50 • (MSD) R35096	47-5 03/18/20	01:59						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	528	381	901	886	98.5	95.6	1	80.0-120			1.68	20

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1199114-45,46,47,48,49,50,51,52,53,54,55,56,57

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Method Blank (MB)

(MB) R3509727-1 03/1	17/20 21:56			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	2.37	J	0.795	10.0

L1198966-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1198966-01 03/17/2	20 23:46 • (DUP)	R3509727-3	03/18/20	00:04		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	1.66	0.000	1	200	<u>P1</u>	20

L1199114-57 Original Sample (OS) • Duplicate (DUP)

L1199114-57 Orig	jinal Sample (C	DS) • Dupl	licate (D	UP)		
S) L1199114-57 03/1	3/20 06:20 • (DUP)	R3509727-6	03/18/20	06:38		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	545	548	1	0.624		20

Laboratory Control Sample (LCS)

(LCS) R3509727-2 03/17/	/20 22:14				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifie
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	205	103	90.0-110	

L1199114-50 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-50 03/18/20	0 03:03 • (MS) R	3509727-4 03	3/18/20 03:21 •	(MSD) R35097	27-5 03/18/20	03:39						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	523	432	975	978	104	104	1	80.0-120			0.271	20

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

QUALITY CONTROL SUMMARY L1199114-01,03,05,06,08,09,11,13,14,15,17,18,19,20

Method Blank (MB)

(MB) R3509356-2 03/16/2	20 23:51				-
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	0.0529	J	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3509356-1 03/16/	/20 23:09				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.60	102	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			112	77.0-120	

³ Ss
⁴ Cn
⁵Sr
⁶ Qc
⁷ Gl
⁸ Al

Sc

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SDG: L1199114

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

QUALITY CONTROL SUMMARY <u>L1199114-21,22,23,24,26,27,28,30,32,33,34,35,36,37,38</u>

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Method Blank (MB)

MB) R3509468-3 03/17/2	20 00:31				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	0.0315	J	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3509468-2 03/16	/20 23:50				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.76	105	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			107	77.0-120	

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

QUALITY CONTROL SUMMARY L1199114-42,43,44,45,46,47,48,49,57

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Method Blank (MB)

Method Blank (ME	<i>)</i>)				. 1
(MB) R3510670-2 03/17/2	20 00:47				
	MB Result	MB Qualifier	MB MDL	MB RDL	Ē
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	0.0503	J	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120	1

Laboratory Control Sample (LCS)

(LCS) R3510670-1 03/17/2	20 00:02				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.51	100	72.0-127	
(S) a.a.a.Trifluorotoluene(FID)			101	77.0-120	

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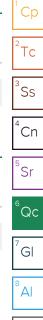
QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3509759-3 03/17/2	20 10:26				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120	

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

(LCS) R3509759-1 03/17/	(LCS) R3509759-1 03/17/20 08:20 • (LCSD) R3509759-2 03/17/20 09:39													
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits				
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%				
TPH (GC/FID) Low Fraction	5.50	4.80	4.22	87.3	76.7	72.0-127			12.9	20				
(S) a.a.a-Trifluorotoluene(FID)				105	104	77.0-120								



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

QUALITY CONTROL SUMMARY

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Method Blank (MB)

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(MB) R3509541-2 03/17/2	20 11:39				CP
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	⁻Tc
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120	^³ Ss

Laboratory Control Sample (LCS)

(LCS) R3509541-1 03/17/2	20 10:58				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.10	92.7	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			108	77.0-120	

Tc Ss °Cn Sr Qc GI Â

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

QUALITY CONTROL SUMMARY

ONE LAB. NAPagev168 of 25

⁺Cn

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Method Blank (MB)

)			
(MB) R3510206-3 03/17/2	20 16:17			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TPH (GC/FID) Low Fraction	0.0249	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3510206-1 03/17/2	20 15:15				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.30	96.4	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			110	77.0-120	

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

QUALITY CONTROL SUMMARY

ONE LAB. NAPagev169 of 25

Method Blank (MB)

Method Blank (ME)				1 Cn
(MB) R3511077-2 03/18/2	0 00:09				Ср
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	Tc
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120	³Ss

Laboratory Control Sample (LCS)

(LCS) R3511077-1 03/17/2	0 22:54				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.15	75.5	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			106	77.0-120	

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Reg @ q 4 by 95 D: 8/6/2023 9:06:06 AM

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

QUALITY CONTROL SUMMARY

ONE LAB. NAPagev150 of 25

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Method Blank (MB)

	9				
(MB) R3510978-3 03/20/	20 14:34				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	0.0254	J	0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	99.4			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3510978-2 03/20)/20 13:53				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.15	93.6	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			111	77.0-120	

DATE/TIME: 03/24/20 18:17 PAGE: 91 of 109 Volatile Organic Compounds (GC/MS) by Method 8260B

QUALITY CONTROL SUMMARY L1199114-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3509307-3	03/16/20 23:31

	MB Result	MB Qualifier	MB MDL	MB RDL
	MD Result			
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	100			75.0-131
(S) 4-Bromofluorobenzene	112			67.0-138
(S) 1,2-Dichloroethane-d4	127			70.0-130

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

(LCS) R3509307-1 03/16/2	20 21:16 • (LCSE	D) R3509307-2	2 03/16/20 22:	30							7
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	Í G
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
Benzene	0.125	0.112	0.113	89.6	90.4	70.0-123			0.889	20	8
Ethylbenzene	0.125	0.108	0.102	86.4	81.6	74.0-126			5.71	20	A
Toluene	0.125	0.100	0.0953	80.0	76.2	75.0-121			4.81	20	9
Xylenes, Total	0.375	0.289	0.278	77.1	74.1	72.0-127			3.88	20	Sc
(S) Toluene-d8				99.3	94.1	75.0-131					
(S) 4-Bromofluorobenzene				114	104	67.0-138					
(S) 1,2-Dichloroethane-d4				126	129	70.0-130					

L1199114-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-20 03/17/20	06:56 • (MS) F	3509307-4 03	3/17/20 07:16 •	(MSD) R35093	07-5 03/17/20	07:37						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.136	U	0.113	0.113	83.2	83.2	1	10.0-149			0.000	37
Ethylbenzene	0.136	U	0.127	0.138	93.6	102	1	10.0-160			8.20	38
Toluene	0.136	U	0.108	0.116	80.0	85.6	1	10.0-156			6.76	38
Xylenes, Total	0.407	U	0.337	0.357	82.9	87.7	1	10.0-160			5.63	38
(S) Toluene-d8					102	101		75.0-131				
(S) 4-Bromofluorobenzene					119	120		67.0-138				
(S) 1,2-Dichloroethane-d4					117	116		70.0-130				

DATE/TIME: 03/24/20 18:17 Qc

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

QUALITY CONTROL SUMMARY L1199114-21,22,23,24,25,26,27,28,29,30,31,32,33

Method Blank (MB)

(MB) R3509519-2 03/17/2	0 11:20			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	107			75.0-131
(S) 4-Bromofluorobenzene	101			67.0-138
(S) 1,2-Dichloroethane-d4	101			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3509519-1 03/17/	20 08:50					Ē
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	
Analyte	mg/kg	mg/kg	%	%		l
Benzene	0.125	0.110	88.0	70.0-123		
Ethylbenzene	0.125	0.139	111	74.0-126		
Toluene	0.125	0.115	92.0	75.0-121		[
Xylenes, Total	0.375	0.423	113	72.0-127		
(S) Toluene-d8			104	75.0-131		l
(S) 4-Bromofluorobenzene			103	67.0-138		
(S) 1,2-Dichloroethane-d4			104	70.0-130		

L1199073-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199073-16 03/17/20	0 13:47 • (MS) R	3509519-3 03,	/17/20 19:29 • (MSD) R350951	9-4 03/17/201	19:47						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.125	ND	0.0649	0.0396	51.9	31.7	1	10.0-149		J3	48.4	37
Ethylbenzene	0.125	ND	0.0789	0.0451	63.1	36.1	1	10.0-160		<u>J3</u>	54.5	38
Toluene	0.125	ND	0.0678	0.0410	54.2	32.8	1	10.0-156		<u>J3</u>	49.3	38
Xylenes, Total	0.375	ND	0.243	0.151	64.8	40.3	1	10.0-160		<u>J3</u>	46.7	38
(S) Toluene-d8					105	101		75.0-131				
(S) 4-Bromofluorobenzene					97.9	106		67.0-138				
(S) 1,2-Dichloroethane-d4					103	108		70.0-130				

SDG: L1199114 DATE/TIME: 03/24/20 18:17

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

QUALITY CONTROL SUMMARY L1199114-34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53

Method Blank (MB)

(MB) R3510640-3	03/18/20 07:56

()				
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	104			75.0-131
(S) 4-Bromofluorobenzene	91.8			67.0-138
(S) 1,2-Dichloroethane-d4	98.6			70.0-130

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

(LCS) R3510640-1 03/18/	20 06:33 • (LCS	D) R3510640-	2 03/18/20 06	:54							7
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	ľ
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
Benzene	0.125	0.122	0.119	97.6	95.2	70.0-123			2.49	20	8
Ethylbenzene	0.125	0.111	0.116	88.8	92.8	74.0-126			4.41	20	
Toluene	0.125	0.122	0.143	97.6	114	75.0-121			15.8	20	9
Xylenes, Total	0.375	0.323	0.338	86.1	90.1	72.0-127			4.54	20	Ĭ
(S) Toluene-d8				101	124	75.0-131					
(S) 4-Bromofluorobenzene				76.1	92.4	67.0-138					
(S) 1,2-Dichloroethane-d4				120	122	70.0-130					

L1199114-53 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-53 03/18/20	14:48 • (MS) R3	3510640-4 03/	18/20 15:08 • (1	MSD) R351064	0-5 03/18/201	5:29						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.134	U	0.0913	0.0378	68.1	28.2	1	10.0-149		<u>J3</u>	83.0	37
Ethylbenzene	0.134	U	0.0880	0.0349	65.6	26.0	1	10.0-160		<u>J3</u>	86.5	38
Toluene	0.134	U	0.0954	0.0388	71.1	29.0	1	10.0-156		<u>J3</u>	84.3	38
Xylenes, Total	0.402	U	0.269	0.113	66.9	28.0	1	10.0-160		<u>J3</u>	82.0	38
(S) Toluene-d8					106	103		75.0-131				
(S) 4-Bromofluorobenzene					92.9	94.9		67.0-138				
(S) 1,2-Dichloroethane-d4					107	104		70.0-130				

DATE/TIME: 03/24/20 18:17 Ср

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

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3511093-2 03/17/20	0 17:11			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	103			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	97.4			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3511093-1 03/17/2	0 16:14					Б
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	ľ
Analyte	mg/kg	mg/kg	%	%		L
Benzene	0.125	0.109	87.2	70.0-123		8
Ethylbenzene	0.125	0.114	91.2	74.0-126		
Toluene	0.125	0.107	85.6	75.0-121		Ī
Xylenes, Total	0.375	0.366	97.6	72.0-127		
(S) Toluene-d8			102	75.0-131		L
(S) 4-Bromofluorobenzene			101	67.0-138		
(S) 1,2-Dichloroethane-d4			102	70.0-130		

L1199114-57 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-57 03/17/20	18:27 • (MS) R3	511093-3 03/1	7/20 23:48 • (N	ISD) R3511093-	4 03/18/20 00):07						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	0.131	U	0.127	0.121	96.8	92.0	1	10.0-149			5.08	37
Ethylbenzene	0.131	U	0.125	0.119	95.2	90.4	1	10.0-160			5.17	38
Toluene	0.131	U	0.125	0.121	95.2	92.0	1	10.0-156			3.42	38
Xylenes, Total	0.394	U	0.402	0.383	102	97.1	1	10.0-160			4.83	38
(S) Toluene-d8					100	101		75.0-131				
(S) 4-Bromofluorobenzene					97.2	98.6		67.0-138				
(S) 1,2-Dichloroethane-d4					97.0	97.1		70.0-130				

SDG: L1199114 DATE/TIME: 03/24/20 18:17

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QUALITY CONTROL SUMMARY L1199114-01,02,03,04,05,06,07,08,09,10,11,12,13,14,15,16

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Method Blank (MB)

(MB) R3509778-1 03/17	7/20 20:10						
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00			
C28-C40 Oil Range	U		0.274	4.00			
(S) o-Terphenyl	70.1			18.0-148			

Laboratory Control Sample (LCS)

(LCS) R3509778-2 03/1	7/20 20:23				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	37.5	75.0	50.0-150	
(S) o-Terphenyl			77.2	18.0-148	

L1199114-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-04 03/17/20	0 22:04 • (MS) R	3509778-3 03	3/17/20 22:16 • (MSD) R35097	78-4 03/17/20	22:29						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	50.7	2.16	35.2	38.0	65.2	70.0	1	50.0-150			7.54	20
(S) o-Terphenyl					65.5	60.0		18.0-148				

DATE/TIME: 03/24/20 18:17

QUALITY CONTROL SUMMARY

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Method Blank (MB)

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(MB) R3510563-1 03/19	/20 21:00				
	MB Result	MB Qualifier	MB MDL	MB RDL	Ī
Analyte	mg/kg		mg/kg	mg/kg	
C10-C28 Diesel Range	U		1.61	4.00	
C28-C40 Oil Range	U		0.274	4.00	
(S) o-Terphenyl	64.3			18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3510563-2 03/19	9/20 21:19				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	36.5	73.0	50.0-150	
(S) o-Terphenyl			83.2	18.0-148	

L1199114-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-20 03/19/20	0 21:57 • (MS) R	3510563-3 03/	/19/20 22:14 • (1	VSD) R351056	3-4 03/19/202	22:27						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	53.3	U	36.4	36.8	68.3	69.5	1	50.0-150			0.889	20
(S) o-Terphenyl					65.7	65.8		18.0-148				

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QUALITY CONTROL SUMMARY

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Method Blank (MB)

	10)				
(MB) R3510569-1 03/19	9/20 22:30				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
C10-C28 Diesel Range	U		1.61	4.00	
C28-C40 Oil Range	U		0.274	4.00	
(S) o-Terphenyl	75.4			18.0-148	

Laboratory Control Sample (LCS)

(LCS) R3510569-2 03/1	9/20 22:44				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	43.2	86.4	50.0-150	
(S) o-Terphenyl			95.9	18.0-148	

L1198863-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1198863-14 03/20/20 03:10 • (MS) R3510569-3 03/20/20 03:23 • (MSD) R3510569-4 03/20/20 03:36														
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits		9
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%		Sc
C10-C28 Diesel Range	50.0	ND	53.2	48.5	76.4	67.0	5	50.0-150			9.24	20		
(S) o-Terphenyl					103	95.8		18.0-148						

Sample Narrative:

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

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QUALITY CONTROL SUMMARY 1199114-30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49

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Method Blank (MB)

	10)				
(MB) R3510943-3 03/2	21/20 12:37				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	Tc
C10-C28 Diesel Range	U		1.61	4.00	
C28-C40 Oil Range	U		0.274	4.00	³ Ss
(S) o-Terphenyl	58.7			18.0-148	
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Laboratory Control Sample (LCS)

(LCS) R3510943-4 03/2	1/20 12:50				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	36.1	72.2	50.0-150	
(S) o-Terphenyl			81.2	18.0-148	

L1199114-30 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1199114-30 03/21/20 04:09 • (MS) R3510943-1 03/21/20 04:22 • (MSD) R3510943-2 03/21/20 04:35												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	55.3	416	452	488	64.4	129	20	50.0-150			7.58	20
(S) o-Terphenyl					63.9	57.6		18.0-148	<u>J7</u>	<u>J7</u>		

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Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

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

Description
The same analyte is found in the associated blank.
The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
The identification of the analyte is acceptable; the reported value is an estimate.
Surrogate recovery limits have been exceeded; values are outside upper control limits.
The associated batch QC was outside the established quality control range for precision.
Surrogate recovery cannot be used for control limit evaluation due to dilution.
RPD value not applicable for sample concentrations less than 5 times the reporting limit.
The sample concentration is too high to evaluate accurate spike recoveries.

PROJECT: 212C-MD-02119

SDG: L1199114 DATE/TIME: 03/24/20 18:17

PAGE: 100 of 109

Received by OCD: 6/6/2023 9:06:06 AMACCREDITATIONS & LOCATIONS

Page 180 of 425 ONE LAB. NATIONWIDE.

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

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 16	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

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

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

Our Locations

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



Released to Imaging: 1/25/2024 2:25:45 PM ConocoPhillips - Tetra Tech PROJECT: 212C-MD-02119

SDG: L1199114 DATE/TIME: 03/24/20 18:17 PAGE: 101 of 109

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

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LAB # (LAB USE)	SAMPLE IDENTIFICATION	YEAR: 2020 DATE	TIME	WATER	SOIL	HCL	HNO3	ICE	NONE	CONTAINERS	FILTERED (Y	BTEX 8021B	TPH TX1005 (Ext to		otal Metals Ag.	0. 1	CLP Volatiles CLP Semi Vola	CI	GC/MS Vol. 826	3082 /		PLM (Asbestos) Chloride 300.0		Seneral Water C	nion/Cation Bala PH 8015R	ногр
35	AH-8W (0-1')	3/6/2020	1100		X	1	Ť	×	2	= 1	N	m X	E F	-	Ĕ	F	FE	Ē	00) a	2	a c	-	0 -	E	Ĩ
36	AH-8W (3-4')	3/6/2020	1110		x	1		x		1	N	x)	+			+			t	H)	-		+	
37	AH-9E (0-1')	3/6/2020	1120		x			x		1	N	x	,	-			1			+	H	-	(1	
38	AH-9E (3-4')	3/6/2020	1130		x	1		x		1	N	x	,	-			-	H				>	-		+	
39	T-9 (1-2').	3/6/2020	1150		x			x		1	N	x	5	-				H		t		,	-			
40	T-9 (3-4')	3/6/2020	1200	H	x		1	x	+	1	N	x	5	-			-	H		+	H	>	(
41	T-9 (7-8')	3/6/2020	1210		x	1		x		1	N	x	-,	-		6	+			t	H	,	-			
42	T-9(9-10')	3/6/2020	1220		x	1		x		1	N	x	,	+			-	H		+	H	-	(10	
43	AH-9W (0-1')	3/6/2020	1300		x			x		1	N	X	,					H	1	t	H)	(T	
44	AH-9W (3-4')	3/6/2020	1310		x			X		1	N	x	>	-		1	1		+	T	H	>	(1	
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Client Name:	Conoco Phillips	Site Manage	n	Chris	tian I		-			÷,	1	-	-	-		,	ANA	LY	SIS	REC	QUE		-	11	ł	
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LAB #	SAMPLE IDENTIFICATION	YEAR: 2020 DATE	TIME	WATER		HCL	HNO ₃	NONE	CONTAINE		FILTERED (Y	BTEX 8021B TPH TX1005 (E	PH 8015M (GRO	AH 8270C	CLP Metals Ag	CLP Volatiles	CLP Semi Volatil	175	C/MS Semi, Vol.	CB's 8082 / 608	IORM	Chloride 300.0		eneral Water Ch nion/Cation Bala	PH 8015R	ногр
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44	AH-10W (3-4')	3/9/2020	1130		<		×			1	N	x	x		1				1	FT		X				
49	T-10 (1-2')	3/9/2020	1150	1	<		×				N	x	X	2	12							X				
100 M	T-10 (5-6')	3/9/2020	1200		<		×		-	1	Ν	x	X									X				×
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LAB #	SAMPLE IDENTIFICATION	YEAR: 2020	-			and the		T	AINE	ED ()	8021B	SM (8270C Matals Ar	Itals A	latiles		ol. 8	Semi, vol. 8082 / 608		(Asbestos) ide 300.0	Sultate	Water ation Ba	R
(LAB USE)		DATE	TIME	WATER	SOIL	HCL HNO4	ICE	NONE	# CONTAINERS	FILTERED (Y/N)	BTEX 80 TPH TX	1000	PAH 827 Total Mai	TCLP Me	TCLP Volatiles	RCI	GC/MS V	PCB's 8082 / 608	MORM	Chloride	Chloride	General \ Anion/Ca	TPH 8015R
53	AH-11W (3-4')	3/10/2020	1100		x		X		1	Ν	x	X								X		-	
54	AH-11E (0-1')	3/10/2020	1110		х		X		1	N	X	X			1					X			
55	AH-11E (3-4')	3/10/2020	1120		×		x		1	N	x	×		17	24	-				X			
56	T-11 (1-2')	3/10/2020	1130		X		x		1	Ν	х	×						19		X	13	1	1
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1000 M	T-11 (9-10')	3/10/2020	1200		x		X	1	1	N	х	X						1		X			
57	T-11 (14-15')	3/10/2020	1210		x		×		1	N	×	X		-		1		-		X			
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Client: COPTETRA	119911	4
Cooler Received/Opened On: 3 / 13 / 20 Temperature:	.7	100
Received By: Willie Taylor 8:00	1981 - 214 1981 - 214 1981 - 214	
Signature: Willie Carley	Contraction of the	
NP	Yes	No
Receipt Check List	Tes	110
COC Seal Present / Intact?		Tole-Attack 1
COC Signed / Accurate?		100 100 100 100 100 100 100 100 100 100
Bottles arrive intact?		
Correct bottles used?		2012
Sufficient volume sent?	-	Manager
If Applicable		9971 9 1 1 1 1
VOA Zero headspace?		and and a state
Preservation Correct / Checked?	and the second second	1

Received by OCD: 6/6/2023 9:06:06 AM



ANALYTICAL REPORT July 28, 2020

Revised Report

ConocoPhillips - Tetra Tech

Sample Delivery Group: Samples Received: Project Number: Description: Site:

Report To:

L1238345
07/10/2020
212C-MD-02119
COP MCA 2-C Header Release
LEA COUNTY, NEW MEXICO
Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

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Ср Тс Ss Cn Śr *Q*c Gl ΆI Sc

Entire Report Reviewed By: Chu, toph June

Chris McCord Project Manager

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

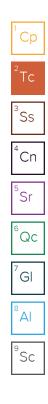
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PROJECT: 212C-MD-02119

SDG: L1238345

DATE/TIME: 07/28/20 13:22 PAGE: 1 of 37

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SAMPLE SUMMARY

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AH-1S-2 0-1FT L1238345-01 Solid			Collected by John Myler	Collected date/time 07/08/20 12:00	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/13/20 23:32	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 00:21	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 13:59	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 13:15	KLM	Mt. Juliet, TN
AH-1S-2 2-3FT L1238345-02 Solid			Collected by John Myler	Collected date/time 07/08/20 12:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/13/20 23:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 00:41	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 14:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 12:33	KLM	Mt. Juliet, TN
AH-5S-2 0-1FT L1238345-03 Solid			Collected by John Myler	Collected date/time 07/08/20 13:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 00:09	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 01:02	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 14:39	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 11:19	KLM	Mt. Juliet, TN
AH-5S-2 2-3FT L1238345-04 Solid			Collected by John Myler	Collected date/time 07/08/20 14:00	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TI
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 00:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 01:22	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 14:59	DWR	Mt. Juliet, TI
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/17/20 16:09	FM	Mt. Juliet, TN
AH-7W-2 0-1FT L1238345-05 Solid			Collected by John Myler	Collected date/time 07/08/20 14:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 01:04	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 01:43	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 15:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 13:28	KLM	Mt. Juliet, TN

PROJECT: 212C-MD-02119

SDG: L1238345 DATE/TIME: 07/28/20 13:22

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SAMPLE SUMMARY

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AH-7W-2 2-3FT L1238345-06 Solid			Collected by John Myler	Collected date/time 07/08/20 15:00	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 01:22	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507601	1	07/10/20 21:04	07/12/20 02:03	AV	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 15:39	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 14:01	KLM	Mt. Juliet, TN
AH-7E-2 0-1FT L1238345-07 Solid			Collected by John Myler	Collected date/time 07/08/20 15:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TI
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 02:54	ELN	Mt. Juliet, T
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:00	07/12/20 03:45	BMB	Mt. Juliet, T
Volatile Organic Compounds (GC/MS) by Method 80(5)/0(C)	WG1507711	1	07/10/20 21:04	07/12/20 15:59	DWR	Mt. Juliet, T
Semi-Volatile Organic Compounds (GCMS) by Method 8200B	WG1507714 WG1507584	1	07/15/20 09:09	07/17/20 00:20	KLM	Mt. Juliet, T
AH-7E-2 2-3FT L1238345-08 Solid			Collected by John Myler	Collected date/time 07/08/20 16:00	Received da	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1508708	1	07/14/20 23:25	07/14/20 23:35	KBC	Mt. Juliet, TI
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 03:13	ELN	Mt. Juliet, T
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 04:07	BMB	Mt. Juliet, Tl
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 16:18	DWR	Mt. Juliet, T
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 12:19	KLM	Mt. Juliet, T
AH-11W-2 0-1FT L1238345-09 Solid			Collected by John Myler	Collected date/time 07/08/20 16:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, T
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 03:31	ELN	Mt. Juliet, TI
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 04:29	BMB	Mt. Juliet, TI
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 16:38	DWR	Mt. Juliet, TI
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 23:39	KLM	Mt. Juliet, TI
AH-11W-2 2-3FT L1238345-10 Solid			Collected by John Myler	Collected date/time 07/08/20 17:00	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 03:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 04:52	BMB	Mt. Juliet, TI
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 16:58	DWR	Mt. Juliet, TI
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 23:53	KLM	Mt. Juliet, TI

PROJECT: 212C-MD-02119

SDG: L1238345 DATE/TIME: 07/28/20 13:22

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SAMPLE SUMMARY

ONE LAB. NAPagev193 of 125

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AH-9W-2 0-1FT L1238345-11 Solid			Collected by John Myler	Collected date/time 07/08/20 17:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 04:08	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 05:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 17:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/17/20 00:06	KLM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
AH-9N 0-1FT L1238345-13 Solid			John Myler	07/08/20 18:30	07/10/20 08:	30
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 04:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 05:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 17:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 22:31	KLM	Mt. Juliet, TN
AH-9N 2-3FT L1238345-14 Solid			Collected by John Myler	Collected date/time 07/08/20 19:00	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 04:45	ELN	Mt. Juliet, TI
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 05:58	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 17:58	DWR	Mt. Juliet, Ti
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 14:14	KLM	Mt. Juliet, T
AH-8W-2 0-1FT L1238345-15 Solid			Collected by John Myler	Collected date/time 07/08/20 19:30	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, Ti
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 05:03	ELN	Mt. Juliet, TI
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 06:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507711	1	07/10/20 21:04	07/12/20 18:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 22:45	KLM	Mt. Juliet, Th
AH-8W-2 2-3FT L1238345-16 Solid			Collected by John Myler	Collected date/time 07/08/20 20:00	Received da 07/10/20 08:	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1508709	1	07/14/20 23:12	07/14/20 23:22	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1507969	1	07/13/20 21:00	07/14/20 05:22	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1507614	1	07/10/20 21:04	07/12/20 06:43	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1507972	1	07/10/20 21:04	07/14/20 13:17	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1507584	1	07/15/20 09:09	07/16/20 22:58	KLM	Mt. Juliet, T

PROJECT: 212C-MD-02119

SDG: L1238345 DATE/TIME: 07/28/20 13:22

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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 McCord Project Manager

Report Revision History

Level II Report - Version 1: 07/20/20 17:24

SDG: L1238345 DATE/TIME: 07/28/20 13:22 PAGE: 6 of 37 Received by OCD = 676/2023 9:06:06 AM Collected date/time: 07/08/20 12:00

SAMPLE RESULTS - 01 L1238345

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		 2
Total Solids	93.4		1	07/14/2020 23:35	WG1508708	Tc

Wet Chemistry by Method 300.0

Wet Chemistry	y by Method 300	0.0						³Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	U		9.85	21.4	1	07/13/2020 23:32	WG1507969	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	07/12/2020 00:21	WG1507601	
(S) a,a,a-Trifluorotoluene(FID)	89.2			77.0-120		07/12/2020 00:21	WG1507601	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000500	0.00107	1	07/12/2020 13:59	<u>WG1507711</u>
Toluene	U		0.00139	0.00535	1	07/12/2020 13:59	WG1507711
Ethylbenzene	U		0.000789	0.00268	1	07/12/2020 13:59	WG1507711
Total Xylenes	U		0.000942	0.00696	1	07/12/2020 13:59	WG1507711
(S) Toluene-d8	104			75.0-131		07/12/2020 13:59	WG1507711
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 13:59	WG1507711
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/12/2020 13:59	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.23	J	1.72	4.28	1	07/16/2020 13:15	WG1507584
C28-C40 Oil Range	14.3		0.293	4.28	1	07/16/2020 13:15	WG1507584
(S) o-Terphenyl	52.4			18.0-148		07/16/2020 13:15	WG1507584

SDG: L1238345

Received by OCD: 676/2023 9:06:06 AM Collected date/time: 07/08/20 12:30

SAMPLE RESULTS - 02 L1238345

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	96.4		1	07/14/2020 23:35	WG1508708	Tc

Wet Chemistry by Method 300.0

Wet Chemistry	v by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	U		9.54	20.7	1	07/13/2020 23:50	WG1507969	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanter	mg/kg	mg/kg	Dilution	date / time	Batch	
TPH (GC/FID) Low Fraction	U		0.0225	0.104	1	07/12/2020 00:41	WG1507601	
(S) a,a,a-Trifluorotoluene(FID)	88.7			77.0-120		07/12/2020 00:41	<u>WG1507601</u>	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000484	0.00104	1	07/12/2020 14:19	<u>WG1507711</u>
Toluene	U		0.00135	0.00519	1	07/12/2020 14:19	<u>WG1507711</u>
Ethylbenzene	U		0.000764	0.00259	1	07/12/2020 14:19	<u>WG1507711</u>
Total Xylenes	U		0.000913	0.00674	1	07/12/2020 14:19	<u>WG1507711</u>
(S) Toluene-d8	104			75.0-131		07/12/2020 14:19	<u>WG1507711</u>
(S) 4-Bromofluorobenzene	103			67.0-138		07/12/2020 14:19	<u>WG1507711</u>
(S) 1,2-Dichloroethane-d4	111			70.0-130		07/12/2020 14:19	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.53	J	1.67	4.15	1	07/16/2020 12:33	WG1507584
C28-C40 Oil Range	11.7		0.284	4.15	1	07/16/2020 12:33	WG1507584
(S) o-Terphenyl	52.0			18.0-148		07/16/2020 12:33	WG1507584

SDG: L1238345

Received by OGD 10/2023 9:06:06 AM Collected date/time: 07/08/20 13:30

SAMPLE RESULTS - 03 L1238345

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch		Ср
Analyte	%			date / time		2	
Total Solids	82.9		1	07/14/2020 23:35	WG1508708	T	Гс

Wet Chemistry by Method 300.0

Wet Chemistr	y by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	11.8	J	11.1	24.1	1	07/14/2020 00:09	WG1507969	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanner	mg/kg	mg/kg	Dilution	date / time	butch	1
TPH (GC/FID) Low Fraction	0.0282	J	0.0262	0.121	1	07/12/2020 01:02	WG1507601	
(S) a,a,a-Trifluorotoluene(FID)	87.5			77.0-120		07/12/2020 01:02	WG1507601	

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

Enzene U 0.000661 0.00141 1 07/12/2020 14:39 WG1507711 bluene U 0.00184 0.00707 1 07/12/2020 14:39 WG1507711 hylbenzene U 0.00104 0.00354 1 07/12/2020 14:39 WG1507711 hylbenzene U 0.00104 0.00354 1 07/12/2020 14:39 WG1507711 otal Xylenes U 0.00125 0.00920 1 07/12/2020 14:39 WG1507711 (S) Toluene-d8 104 75.0-131 07/12/2020 14:39 WG1507711 (S) 4-Bromofluorobenzene 100 67.0-138 07/12/2020 14:39 WG1507711								
Virtual of a statistical statis		Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
U 0.00184 0.00707 1 07/12/2020 14:39 WG1507711 hylbenzene U 0.00104 0.00354 1 07/12/2020 14:39 WG1507711 hylbenzene U 0.00104 0.00354 1 07/12/2020 14:39 WG1507711 htal Xylenes U 0.00125 0.00920 1 07/12/2020 14:39 WG1507711 (S) Toluene-d8 104 75.0-131 07/12/2020 14:39 WG1507711 (S) 4-Bromofluorobenzene 100 67.0-138 07/12/2020 14:39 WG1507711	Analyte	mg/kg		mg/kg	mg/kg		date / time	
hylbenzene U 0.00104 0.00354 1 07/12/2020 14:39 WG1507711 otal Xylenes U 0.00125 0.00920 1 07/12/2020 14:39 WG1507711 (S) Toluene-d8 104 75.0-131 07/12/2020 14:39 WG1507711 (S) 4-Bromofluorobenzene 100 67.0-138 07/12/2020 14:39 WG1507711	Benzene	U		0.000661	0.00141	1	07/12/2020 14:39	WG1507711
Vital Xylenes U 0.00125 0.00920 1 07/12/2020 14:39 WG1507711 (S) Toluene-d8 104 75.0-131 07/12/2020 14:39 WG1507711 (S) 4-Bromofluorobenzene 100 67.0-138 07/12/2020 14:39 WG1507711	Toluene	U		0.00184	0.00707	1	07/12/2020 14:39	WG1507711
(S) Toluene-d8 104 75.0-131 07/12/2020 14:39 WG1507711 (S) 4-Bromofluorobenzene 100 67.0-138 07/12/2020 14:39 WG1507711	Ethylbenzene	U		0.00104	0.00354	1	07/12/2020 14:39	WG1507711
(S) 4-Bromofluorobenzene 100 67.0-138 07/12/2020 14:39 WG1507711	Total Xylenes	U		0.00125	0.00920	1	07/12/2020 14:39	WG1507711
	(S) Toluene-d8	104			75.0-131		07/12/2020 14:39	WG1507711
(S) 1,2-Dichloroethane-d4 110 70.0-130 07/12/2020 14:39 WG1507711	(S) 4-Bromofluorobenzene	100			67.0-138		07/12/2020 14:39	WG1507711
	(S) 1,2-Dichloroethane-d4	110			70.0-130		07/12/2020 14:39	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.94	4.83	1	07/16/2020 11:19	WG1507584
C28-C40 Oil Range	4.44	<u>B J</u>	0.331	4.83	1	07/16/2020 11:19	WG1507584
(S) o-Terphenyl	46.9			18.0-148		07/16/2020 11:19	WG1507584

SDG: L1238345

Received by 09D3 6/6/2023 9:06:06 AM Collected date/time: 07/08/20 14:00

SAMPLE RESULTS - 04 L1238345

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Total Solids by Method 2540 G-2011

	 Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	93.6		1	07/14/2020 23:35	WG1508708	Tc

Wet Chemistry by Method 300.0

Wet Chemist	ry by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	U		9.83	21.4	1	07/14/2020 00:27	WG1507969	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanner	mg/kg	mg/kg	Dilution	date / time	baten	
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	07/12/2020 01:22	WG1507601	
(S) a,a,a-Trifluorotoluene(FID)	89.1			77.0-120		07/12/2020 01:22	WG1507601	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000499	0.00107	1	07/12/2020 14:59	<u>WG1507711</u>
Toluene	U		0.00139	0.00534	1	07/12/2020 14:59	<u>WG1507711</u>
Ethylbenzene	U		0.000788	0.00267	1	07/12/2020 14:59	WG1507711
Total Xylenes	U		0.000940	0.00695	1	07/12/2020 14:59	<u>WG1507711</u>
(S) Toluene-d8	107			75.0-131		07/12/2020 14:59	<u>WG1507711</u>
(S) 4-Bromofluorobenzene	103			67.0-138		07/12/2020 14:59	<u>WG1507711</u>
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		07/12/2020 14:59	<u>WG1507711</u>

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.78		1.72	4.27	1	07/17/2020 16:09	WG1507584
C28-C40 Oil Range	13.8		0.293	4.27	1	07/17/2020 16:09	WG1507584
(S) o-Terphenyl	48.5			18.0-148		07/17/2020 16:09	WG1507584

SDG: L1238345

Received/by20GD: 6/6/2023 9:06:06 AM Collected date/time: 07/08/20 14:30

SAMPLE RESULTS - 05 L1238345

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	99.6		1	07/14/2020 23:35	WG1508708	Tc

Wet Chemistry by Method 300.0

Wet Chemistry	v by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		⁴ Cn
Chloride	U		9.23	20.1	1	07/14/2020 01:04	WG1507969	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	dunner	mg/kg		Dilation	date / time	Baten	
	5 5		5 5	mg/kg	4		1004507004	
TPH (GC/FID) Low Fraction	0.0251	<u>_</u>	0.0218	0.100	1	07/12/2020 01:43	<u>WG1507601</u>	
(S) a,a,a-Trifluorotoluene(FID)	89.2			77.0-120		07/12/2020 01:43	WG1507601	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000469	0.00100	1	07/12/2020 15:19	<u>WG1507711</u>
Toluene	U		0.00130	0.00502	1	07/12/2020 15:19	<u>WG1507711</u>
Ethylbenzene	U		0.000740	0.00251	1	07/12/2020 15:19	WG1507711
Total Xylenes	U		0.000883	0.00652	1	07/12/2020 15:19	<u>WG1507711</u>
(S) Toluene-d8	105			75.0-131		07/12/2020 15:19	<u>WG1507711</u>
(S) 4-Bromofluorobenzene	98.1			67.0-138		07/12/2020 15:19	<u>WG1507711</u>
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		07/12/2020 15:19	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.57	J	1.62	4.01	1	07/16/2020 13:28	WG1507584
C28-C40 Oil Range	23.9		0.275	4.01	1	07/16/2020 13:28	WG1507584
(S) o-Terphenyl	61.0			18.0-148		07/16/2020 13:28	WG1507584

SDG: L1238345

Received by OGD :36/6/2023 9:06:06 AM Collected date/time: 07/08/20 15:00

SAMPLE RESULTS - 06 L1238345

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	85.8		1	07/14/2020 23:35	WG1508708	Tc

Wet Chemistry by Method 300.0

Wet Chemistr	y by Method 300	0.C						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	U		10.7	23.3	1	07/14/2020 01:22	WG1507969	CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Quanner	ma/ka	mg/kg	Dilution	date / time	Baten	
TPH (GC/FID) Low Fraction	0.0304	J	0.0253	0.117	1	07/12/2020 02:03	WG1507601	
(S) a,a,a-Trifluorotoluene(FID)	86.2			77.0-120		07/12/2020 02:03	WG1507601	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000623	0.00133	1	07/12/2020 15:39	WG1507711
Toluene	U		0.00173	0.00667	1	07/12/2020 15:39	WG1507711
Ethylbenzene	U		0.000982	0.00333	1	07/12/2020 15:39	WG1507711
Total Xylenes	U		0.00117	0.00866	1	07/12/2020 15:39	WG1507711
(S) Toluene-d8	105			75.0-131		07/12/2020 15:39	WG1507711
(S) 4-Bromofluorobenzene	100			67.0-138		07/12/2020 15:39	WG1507711
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/12/2020 15:39	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.80	J	1.88	4.66	1	07/16/2020 14:01	WG1507584
C28-C40 Oil Range	14.7		0.320	4.66	1	07/16/2020 14:01	WG1507584
(S) o-Terphenyl	54.5			18.0-148		07/16/2020 14:01	WG1507584

SDG: L1238345

Received by OGD: 676/2023 9:06:06 AM

Collected date/time: 07/08/20 15:30

SAMPLE RESULTS - 07 L1238345

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Total Solids by Method 2540 G-2011

	 Result	Qualifier	Dilution	Analysis	Batch	_	Ср
Analyte	%			date / time			2
Total Solids	81.3		1	07/14/2020 23:35	<u>WG1508708</u>		Tc

Wet Chemistry by Method 300.0

Wet Chemistry	y by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	U		11.3	24.6	1	07/14/2020 02:54	WG1507969	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Quanner	mg/kg		Dilation	date / time	Baten	e
•	під/ку		5 5	mg/kg	4		WC1E07C14	
TPH (GC/FID) Low Fraction	U		0.0267	0.123	I	07/12/2020 03:45	WG1507614	
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-120		07/12/2020 03:45	WG1507614	,

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000682	0.00146	1	07/12/2020 15:59	<u>WG1507711</u>
Toluene	U		0.00190	0.00730	1	07/12/2020 15:59	<u>WG1507711</u>
Ethylbenzene	U		0.00108	0.00365	1	07/12/2020 15:59	<u>WG1507711</u>
Total Xylenes	U		0.00129	0.00949	1	07/12/2020 15:59	<u>WG1507711</u>
(S) Toluene-d8	103			75.0-131		07/12/2020 15:59	<u>WG1507711</u>
(S) 4-Bromofluorobenzene	102			67.0-138		07/12/2020 15:59	<u>WG1507711</u>
(S) 1,2-Dichloroethane-d4	110			70.0-130		07/12/2020 15:59	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	9.48		1.98	4.92	1	07/17/2020 00:20	WG1507584
C28-C40 Oil Range	49.5		0.337	4.92	1	07/17/2020 00:20	WG1507584
(S) o-Terphenyl	55.2			18.0-148		07/17/2020 00:20	WG1507584

SDG: L1238345

Received by OQD3 6/6/2023 9:06:06 AM Collected date/time: 07/08/20 16:00

SAMPLE RESULTS - 08 L1238345

ONE LAB. NAPage 202 of 25

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Total Solids by Method 2540 G-2011

	 Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	99.2		1	07/14/2020 23:35	<u>WG1508708</u>	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0										
Result (dry) <u>Qualifier</u> MDL (dry) RDL (dry) Dilution Analysis <u>Batch</u>										
Analyte	mg/kg		mg/kg	mg/kg		date / time			4 Cn	
Chloride	U		9.27	20.2	1	07/14/2020 03:13	WG1507969			

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	07/12/2020 04:07	WG1507614	
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120		07/12/2020 04:07	<u>WG1507614</u>	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000471	0.00101	1	07/12/2020 16:18	WG1507711
Toluene	U		0.00131	0.00504	1	07/12/2020 16:18	WG1507711
Ethylbenzene	U		0.000743	0.00252	1	07/12/2020 16:18	<u>WG1507711</u>
Total Xylenes	U		0.000887	0.00655	1	07/12/2020 16:18	<u>WG1507711</u>
(S) Toluene-d8	105			75.0-131		07/12/2020 16:18	<u>WG1507711</u>
(S) 4-Bromofluorobenzene	98.6			67.0-138		07/12/2020 16:18	<u>WG1507711</u>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/12/2020 16:18	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	1.86	J	1.62	4.03	1	07/16/2020 12:19	WG1507584
C28-C40 Oil Range	9.44		0.276	4.03	1	07/16/2020 12:19	WG1507584
(S) o-Terphenyl	46.7			18.0-148		07/16/2020 12:19	WG1507584

SDG: L1238345

Received by DCD: 07672023 9:06:06 AM Collected date/time: 07/08/20 16:30

SAMPLE RESULTS - 09 L1238345

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	99.7		1	07/14/2020 23:22	<u>WG1508709</u>	Tc

Wet Chemistry by Method 300.0

Wet Chemistry	Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch			
Analyte	mg/kg		mg/kg	mg/kg		date / time			4 Cn	
Chloride	U		9.23	20.1	1	07/14/2020 03:31	WG1507969			

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanter	mg/kg	mg/kg	Dilation	date / time	Batch	
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	07/12/2020 04:29	WG1507614	
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		07/12/2020 04:29	WG1507614	

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

	B 11 (1 .)	0 110			D:1 .::		D + 1
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000468	0.00100	1	07/12/2020 16:38	WG1507711
Toluene	U		0.00130	0.00501	1	07/12/2020 16:38	WG1507711
Ethylbenzene	U		0.000739	0.00251	1	07/12/2020 16:38	WG1507711
Total Xylenes	U		0.000883	0.00652	1	07/12/2020 16:38	WG1507711
(S) Toluene-d8	105			75.0-131		07/12/2020 16:38	WG1507711
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 16:38	WG1507711
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/12/2020 16:38	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.11		1.61	4.01	1	07/16/2020 23:39	WG1507584
C28-C40 Oil Range	33.6		0.275	4.01	1	07/16/2020 23:39	WG1507584
(S) o-Terphenyl	66.8			18.0-148		07/16/2020 23:39	WG1507584

SDG: L1238345

Received by DCD: 31072023 9:06:06 AM Collected date/time: 07/08/20 17:00

SAMPLE RESULTS - 10 L1238345

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	87.5		1	07/14/2020 23:22	<u>WG1508709</u>	Tc

Wet Chemistry by Method 300.0

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	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			4 Cn
Chloride	U		10.5	22.8	1	07/14/2020 03:50	WG1507969		CII

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.0248	0.114	1	07/12/2020 04:52	WG1507614	
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		07/12/2020 04:52	WG1507614	

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

Result (dry) Qualifier MDL (dry) RDL (dry) Dilution Analysis Batch Analyte mg/kg mg/kg mg/kg mg/kg date / time Benzene U 0.000601 0.00129 1 07/12/2020 16:58 WG1507711 Toluene U 0.00167 0.00643 1 07/12/2020 16:58 WG1507711
Benzene U 0.000601 0.00129 1 07/12/2020 16:58 WG1507711
Toluene U 0.00167 0.00643 1 07/12/2020 16:58 WG1507711
Ethylbenzene U 0.000948 0.00322 1 07/12/2020 16:58 WG1507711
Total Xylenes U 0.00113 0.00836 1 07/12/2020 16:58 WG1507711
(S) Toluene-d8 106 75.0-131 07/12/2020 16:58 WG1507711
(S) 4-Bromofluorobenzene 101 67.0-138 07/12/2020 16:58 WG1507711
(S) 1,2-Dichloroethane-d4 106 70.0-130 07/12/2020 16:58 WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	5.65		1.84	4.57	1	07/16/2020 23:53	WG1507584
C28-C40 Oil Range	23.5		0.313	4.57	1	07/16/2020 23:53	<u>WG1507584</u>
(S) o-Terphenyl	47.7			18.0-148		07/16/2020 23:53	WG1507584

SDG: L1238345

Received by 20 CD-16/6/2023 9:06:06 AM Collected date/time: 07/08/20 17:30

SAMPLE RESULTS - 11

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Total Solids by Method 2540 G-2011

 						1 Cn
	Result	Qualifier	Dilution	Analysis	Batch	Cp
Analyte	%			date / time		2
Total Solids	99.6		1	07/14/2020 23:22	WG1508709	Tc

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
Chloride	49.4		9.23	20.1	1	07/14/2020 04:08	WG1507969	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	07/12/2020 05:14	WG1507614
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		07/12/2020 05:14	WG1507614

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

Result (dry) Qualifier MDL (dry) RDL (dry) Dilution Analysis Batch Analyte mg/kg mg/kg mg/kg date / time date / time Benzene U 0.000469 0.00100 1 07/12/2020 17:18 WG1507711 Toluene U 0.00130 0.00520 1 07/12/2020 17:18 WG1507711 Ethylbenzene U 0.000740 0.00251 1 07/12/2020 17:18 WG1507711 Total Xylenes U 0.000883 0.00652 1 07/12/2020 17:18 WG1507711 (S) Toluene-d8 106 - 75.0-131 07/12/2020 17:18 WG1507711 (S) 4-Bromofluorobenzene 101 - 75.0-131 07/12/2020 17:18 WG1507711 (S) 1,2-Dichloroethane-d4 97.7 - 70.0-130 07/12/2020 17:18 WG1507711								
Benzene U 0.000469 0.00100 1 07/12/2020 17:18 WG1507711 Toluene U 0.00130 0.00502 1 07/12/2020 17:18 WG1507711 Ethylbenzene U 0.000740 0.00251 1 07/12/2020 17:18 WG1507711 Total Xylenes U 0.000883 0.00652 1 07/12/2020 17:18 WG1507711 (S) Toluene-d8 106 75.0-131 07/12/2020 17:18 WG1507711 (S) 4-Bromofluorobenzene 101 67.0-138 07/12/2020 17:18 WG1507711		Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Toluene U 0.00130 0.00502 1 07/12/2020 17:18 WG1507711 Ethylbenzene U 0.000740 0.00251 1 07/12/2020 17:18 WG1507711 Total Xylenes U 0.000883 0.00652 1 07/12/2020 17:18 WG1507711 (S) Toluene-d8 106 75.0-131 07/12/2020 17:18 WG1507711 (S) 4-Bromofluorobenzene 101 67.0-138 07/12/2020 17:18 WG1507711	Analyte	mg/kg		mg/kg	mg/kg		date / time	
Ethylbenzene U 0.000740 0.00251 1 07/12/2020 17:18 WG1507711 Total Xylenes U 0.000883 0.00652 1 07/12/2020 17:18 WG1507711 (S) Toluene-d8 106 75.0-131 07/12/2020 17:18 WG1507711 (S) 4-Bromofluorobenzene 101 67.0-138 07/12/2020 17:18 WG1507711	Benzene	U		0.000469	0.00100	1	07/12/2020 17:18	<u>WG1507711</u>
Total Xylenes U 0.000883 0.00652 1 07/12/2020 17:18 WG1507711 (s) Toluene-d8 106 75.0-131 07/12/2020 17:18 WG1507711 (s) 4-Bromofluorobenzene 101 67.0-138 07/12/2020 17:18 WG1507711	Toluene	U		0.00130	0.00502	1	07/12/2020 17:18	<u>WG1507711</u>
(S) Toluene-d8 106 75.0-131 07/12/2020 17:18 WG1507711 (S) 4-Bromofluorobenzene 101 67.0-138 07/12/2020 17:18 WG1507711	Ethylbenzene	U		0.000740	0.00251	1	07/12/2020 17:18	<u>WG1507711</u>
(S) 4-Bromofluorobenzene 101 67.0-138 07/12/2020 17:18 WG1507711	Total Xylenes	U		0.000883	0.00652	1	07/12/2020 17:18	<u>WG1507711</u>
	(S) Toluene-d8	106			75.0-131		07/12/2020 17:18	<u>WG1507711</u>
(S) 1,2-Dichloroethane-d4 97.7 70.0-130 07/12/2020 17:18 WG1507711	(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 17:18	<u>WG1507711</u>
	(S) 1,2-Dichloroethane-d4	97.7			70.0-130		07/12/2020 17:18	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	21.6		1.62	4.01	1	07/17/2020 00:06	WG1507584
C28-C40 Oil Range	97.3		0.275	4.01	1	07/17/2020 00:06	WG1507584
(S) o-Terphenyl	59.0			18.0-148		07/17/2020 00:06	WG1507584

SDG: L1238345

Received by O. C. D. 6/6/2023 9:06:06 AM

Collected date/time: 07/08/20 18:30

SAMPLE RESULTS - 13

Total Solids by Method 2540 G-2011

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		Result	Qualifier	Dilution	Analysis	Batch		Ρ
A	nalyte	%			date / time		2	_
Т	otal Solids	92.9		1	07/14/2020 23:22	WG1508709	ŤΤ	С

Wet Chemistry by Method 300.0

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4
Chloride	U		9.90	21.5	1	07/14/2020 04:27	WG1507969	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	quanner	mg/kg	mg/kg	Dilution	date / time	Baten	
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	07/12/2020 05:36	WG1507614	
(S) a,a,a-Trifluorotoluene(FID)	98.6			77.0-120		07/12/2020 05:36	WG1507614	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000503	0.00108	1	07/12/2020 17:38	<u>WG1507711</u>
Toluene	U		0.00140	0.00538	1	07/12/2020 17:38	<u>WG1507711</u>
Ethylbenzene	U		0.000793	0.00269	1	07/12/2020 17:38	WG1507711
Total Xylenes	U		0.000947	0.00700	1	07/12/2020 17:38	<u>WG1507711</u>
(S) Toluene-d8	106			75.0-131		07/12/2020 17:38	WG1507711
(S) 4-Bromofluorobenzene	99.1			67.0-138		07/12/2020 17:38	<u>WG1507711</u>
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/12/2020 17:38	<u>WG1507711</u>

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.1		1.73	4.31	1	07/16/2020 22:31	WG1507584
C28-C40 Oil Range	36.3		0.295	4.31	1	07/16/2020 22:31	WG1507584
(S) o-Terphenyl	61.7			18.0-148		07/16/2020 22:31	WG1507584

SDG: L1238345 DATE/TIME: 07/28/20 13:22

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Received by DGD: 6/2023 9:06:06 AM Collected date/time: 07/08/20 19:00

SAMPLE RESULTS - 14 L1238345

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Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte	%			date / time		2
Total Solids	99.1		1	07/14/2020 23:22	<u>WG1508709</u>	Tc

Wet Chemistry by Method 300.0

Wet Chemistr	ry by Method 300	0.0						³ Ss
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		4 Cn
Chloride	13.1	Ţ	9.29	20.2	1	07/14/2020 04:45	WG1507969	СП

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

Volatile Organic C	Compounds	(GC) by Me	ethod 801	5D/GRO				⁵ Sr		
Result (dry) <u>Qualifier</u> MDL (dry) RDL (dry) Dilution Analysis <u>Batch</u>										
Analyte	mg/kg		mg/kg	mg/kg		date / time		ိုင္ရင		
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	07/12/2020 05:58	WG1507614			
(S) a,a,a-Trifluorotoluene(FID)	98.5			77.0-120		07/12/2020 05:58	WG1507614	⁷ Gl		

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000471	0.00101	1	07/12/2020 17:58	<u>WG1507711</u>
Toluene	U		0.00131	0.00505	1	07/12/2020 17:58	WG1507711
Ethylbenzene	U		0.000744	0.00252	1	07/12/2020 17:58	WG1507711
Total Xylenes	U		0.000888	0.00656	1	07/12/2020 17:58	WG1507711
(S) Toluene-d8	107			75.0-131		07/12/2020 17:58	WG1507711
(S) 4-Bromofluorobenzene	98.9			67.0-138		07/12/2020 17:58	WG1507711
(S) 1,2-Dichloroethane-d4	97.5			70.0-130		07/12/2020 17:58	<u>WG1507711</u>

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	4.35		1.63	4.04	1	07/16/2020 14:14	WG1507584
C28-C40 Oil Range	28.2		0.277	4.04	1	07/16/2020 14:14	WG1507584
(S) o-Terphenyl	51.8			18.0-148		07/16/2020 14:14	WG1507584

SDG: L1238345

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SAMPLE RESULTS - 15

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Collected date/time: 07/08/20 19:30

	Result	Qualifie	er Dilution	Analysis		Batch		
Analyte	%			date / time				
Total Solids	99.3		1	07/14/2020 23	:22	WG1508709		
Wet Chemistr	y by Method 300.	0						
Wet Chemistr	ry by Method 300. Result (dry)	O Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Wet Chemistr Analyte			MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg	mg/kg		date / time		
TPH (GC/FID) Low Fraction	U		0.0219	0.101	1	07/12/2020 06:21	WG1507614	
(S) a,a,a-Trifluorotoluene(FID)	98.2			77.0-120		07/12/2020 06:21	WG1507614	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000470	0.00101	1	07/12/2020 18:18	<u>WG1507711</u>
Toluene	U		0.00131	0.00504	1	07/12/2020 18:18	<u>WG1507711</u>
Ethylbenzene	U		0.000742	0.00252	1	07/12/2020 18:18	<u>WG1507711</u>
Total Xylenes	U		0.000886	0.00655	1	07/12/2020 18:18	<u>WG1507711</u>
(S) Toluene-d8	104			75.0-131		07/12/2020 18:18	<u>WG1507711</u>
(S) 4-Bromofluorobenzene	101			67.0-138		07/12/2020 18:18	<u>WG1507711</u>
(S) 1,2-Dichloroethane-d4	108			70.0-130		07/12/2020 18:18	WG1507711

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.36		1.62	4.03	1	07/16/2020 22:45	WG1507584
C28-C40 Oil Range	40.1		0.276	4.03	1	07/16/2020 22:45	WG1507584
(S) o-Terphenyl	48.2			18.0-148		07/16/2020 22:45	WG1507584

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SAMPLE RESULTS - 16 L1238345

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Total Solids by Method 2540 G-2011

	-	Result	Qualifier	Dilution	Analysis	Batch	 Ср
Analyte		%			date / time		2
Total Solids		97.7		1	07/14/2020 23:22	WG1508709	Tc

Wet Chemistry by Method 300.0

Wet Chemistry by Method 300.0									
	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch		
Analyte	mg/kg		mg/kg	mg/kg		date / time			⁴ Cn
Chloride	53.9		9.42	20.5	1	07/14/2020 05:22	WG1507969		

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
Analyte	mg/kg	Quanner	mg/kg	mg/kg	Dilution	date / time	Baten	
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	07/12/2020 06:43	WG1507614	
(S) a,a,a-Trifluorotoluene(FID)	99.2			77.0-120		07/12/2020 06:43	WG1507614	

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

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.000717	J	0.000478	0.00102	1	07/14/2020 13:17	<u>WG1507972</u>
Toluene	0.00141	J	0.00133	0.00512	1	07/14/2020 13:17	<u>WG1507972</u>
Ethylbenzene	U		0.000755	0.00256	1	07/14/2020 13:17	<u>WG1507972</u>
Total Xylenes	0.00102	J	0.000901	0.00665	1	07/14/2020 13:17	<u>WG1507972</u>
(S) Toluene-d8	103			75.0-131		07/14/2020 13:17	<u>WG1507972</u>
(S) 4-Bromofluorobenzene	94.9			67.0-138		07/14/2020 13:17	<u>WG1507972</u>
(S) 1,2-Dichloroethane-d4	94.2			70.0-130		07/14/2020 13:17	<u>WG1507972</u>

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.58		1.65	4.10	1	07/16/2020 22:58	WG1507584
C28-C40 Oil Range	37.6		0.281	4.10	1	07/16/2020 22:58	WG1507584
(S) o-Terphenyl	60.3			18.0-148		07/16/2020 22:58	WG1507584

SDG: L1238345

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY <u>L1238345-01,02,03,04,05,06,07,08</u>

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Method Blank (MB)

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(MB) R3549748-1 ()7/14/20 23:35					
	MB Result	MB Qualifier	MB MDL	MB RDL		2
Analyte	%		%	%		Tc
Total Solids	0.000					
					3	³ Ss
						Í

L1238345-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1238345-01 07/14	l/20 23:35 • (DUI	P) R3549748-3	3 07/14/20	23:35		
	Original Resul	t DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	93.4	93.4	1	0.00139		10

Laboratory Control Sample (LCS)

(LCS) R3549748-2 0	7/14/20 23:35				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

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Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1238345-09,10,11,13,14,15,16

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Method Blank (MB)

7/14/20 23:22				
MB Result	MB Qualifier	MB MDL	IB RDL	
%		%)	
0.00100				
7	MB Result %	MB Result <u>MB Qualifier</u> %	MB Result <u>MB Qualifier</u> MB MDL M % % %	MB Result MB Qualifier MB MDL MB RDL % % %

L1238345-13 Original Sample (OS) • Duplicate (DUP)

DS) L1238345-13 07/14/20 23:22 • (DUP) R3549745-3 07/14/20 23:22 Original Result DUP Result Dilution DUP RPD DUP Qualifier DUP RPD Limits Inalyte % % % % % % %

Laboratory Control Sample (LCS)

(LCS) R3549745-2 07	7/14/20 23:22				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

SDG: L1238345

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Wet Chemistry by Method 300.0

QUALITY CONTROL SUMMARY L1238345-01,02,03,04,05,06,07,08,09,10,11,13,14,15,16

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Method Blank (MB)

(MB) R3549168-1 07	7/13/20 22:36			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1238345-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1238345-04 07/14/2	20 00:27 • (DUP) R3549168-3	07/14/20	00:45					
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits			
Analyte	mg/kg	mg/kg		%		%			
Chloride	U	U	1	0.000		20			

L1238345-16 Original Sample (OS) • Duplicate (DUP)

L1238345-16 (Driginal Sample	(OS) • Dup	olicate (DUP)		
(OS) L1238345-16	07/14/20 05:22 • (DUF) R3549168-6	07/14/20	06:17		
	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	53.9	54.0	1	0.178		20

Laboratory Control Sample (LCS)

(LCS) R3549168-2 07/13/2	20 22:55				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifie
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	208	104	90.0-110	

L1238345-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1238345-06 07/14/2	20 01:22 • (MS)	R3549168-4 0	7/14/20 01:41 •	(MSD) R354916	68-5 07/14/20	02:36						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	583	U	591	596	101	102	1	80.0-120			0.871	20

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	ConocoPhillips - Tetra Tech

PROJECT: 212C-MD-02119

SDG: L1238345

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

QUALITY CONTROL SUMMARY L1238345-01,02,03,04,05,06

Method Blank (MB)

(MB) R3550217-2 07/11/2	0 23:40				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	92.6			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3550217-1 07/11/2	0 22:58				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.48	99.6	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			108	77.0-120	

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

QUALITY CONTROL SUMMARY <u>L1238345-07,08,09,10,11,13,14,15,16</u>

Method Blank (MB)

(MB) R3550799-3 07/12/	20 03:23				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	_
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	99.8			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3550799-2 07/12	/20 02:14				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.71	85.6	72.0-127	
(S) a.a.a-Trifluorotoluene(FID)			101	77.0-120	

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

QUALITY CONTROL SUMMARY L1238345-01,02,03,04,05,06,07,08,09,10,11,13,14,15

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Method Blank (MB)

	1				
(MB) R3549987-2 07/12/2	20 12:46				
	MB Result	MB Qualifier	MB MDL	MB RDL	² -
Analyte	mg/kg		mg/kg	mg/kg	ŤΤ
Benzene	U		0.000467	0.00100	
Ethylbenzene	U		0.000737	0.00250	³ S
Toluene	U		0.00130	0.00500	Ľ
Xylenes, Total	U		0.000880	0.00650	4
(S) Toluene-d8	103			75.0-131	
(S) 4-Bromofluorobenzene	101			67.0-138	
(S) 1,2-Dichloroethane-d4	105			70.0-130	55

Laboratory Control Sample (LCS) -----

(LCS) R3549987-1 07/12	2/20 11:46					7
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier	Í GI
Analyte	mg/kg	mg/kg	%	%		
Benzene	0.125	0.113	90.4	70.0-123		8
Ethylbenzene	0.125	0.134	107	74.0-126		AI
Toluene	0.125	0.106	84.8	75.0-121		9
Xylenes, Total	0.375	0.347	92.5	72.0-127		Sc
(S) Toluene-d8			103	75.0-131		
(S) 4-Bromofluorobenzene	a		102	67.0-138		
(S) 1,2-Dichloroethane-d4			105	70.0-130		

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PAGE: 27 of 37 Volatile Organic Compounds (GC/MS) by Method 8260B

QUALITY CONTROL SUMMARY

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Method Blank (MB)

(MB) R3550795-2 07/14/2	20 10:15				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Benzene	U		0.000467	0.00100	
Ethylbenzene	U		0.000737	0.00250	
Toluene	U		0.00130	0.00500	
Xylenes, Total	U		0.000880	0.00650	
(S) Toluene-d8	102			75.0-131	
(S) 4-Bromofluorobenzene	97.2			67.0-138	
(S) 1,2-Dichloroethane-d4	91.0			70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3550795-1 07/14/20 09:18									
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier				
Analyte	mg/kg	mg/kg	%	%		L			
Benzene	0.125	0.122	97.6	70.0-123		ſ			
Ethylbenzene	0.125	0.118	94.4	74.0-126					
Toluene	0.125	0.116	92.8	75.0-121		Г			
Xylenes, Total	0.375	0.382	102	72.0-127					
(S) Toluene-d8			94.7	75.0-131		L			
(S) 4-Bromofluorobenzene			103	67.0-138					
(S) 1,2-Dichloroethane-d4			101	70.0-130					

L1238436-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1238436-03 07/14/20 16:46 • (MS) R3550795-3 07/14/20 19:36 • (MSD) R3550795-4 07/14/20 19:55												
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg				%	%		%			%	%
Benzene	0.125	0.00130	0.187	0.183	96.9	94.5	1	10.0-149			2.49	37
Ethylbenzene	0.125	U	0.181	0.175	94.4	91.2	1	10.0-160			3.45	38
Toluene	0.125	U	0.193	0.189	101	98.4	1	10.0-156			2.41	38
Xylenes, Total	0.375	U	0.560	0.430	97.3	74.7	1	10.0-160			26.4	38
(S) Toluene-d8					99.2	99.3		75.0-131				
(S) 4-Bromofluorobenzene					93.9	93.4		67.0-138				
(S) 1,2-Dichloroethane-d4					101	102		70.0-130				

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Semi-Volatile Organic Compounds (GC) by Method 8015

QUALITY CONTROL SUMMARY L1238345-01,02,03,04,05,06,07,08,09,10,11,13,14,15,16

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Method Blank (MB)

Method Blank (M	D)						
(MB) R3550539-1 07/16	6/20 10:51						
	MB Result	MB Qualifier	MB MDL	MB RDL			
Analyte	mg/kg		mg/kg	mg/kg			
C10-C28 Diesel Range	U		1.61	4.00			
C28-C40 Oil Range	0.442	J	0.274	4.00			
(S) o-Terphenyl	49.4			18.0-148			

Laboratory Control Sample (LCS)

(LCS) R3550539-2 07/	16/20 11:06				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	33.0	66.0	50.0-150	
(S) o-Terphenyl			82.3	18.0-148	

L1238345-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1238345-03 07/16/2	20 11:19 • (MS) R	3550539-3 07	7/16/20 11:34 • (MSD) R35505	39-4 07/16/20) 11:52						
	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	59.0	U	32.9	39.2	55.8	66.3	1	50.0-150			17.4	20
(S) o-Terphenyl					59.2	116		18.0-148				

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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

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

SDG: L1238345

Received by OCD: 6/6/2023 9:06:06 AMACCREDITATIONS & LOCATIONS



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

State Accreditations

Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
lowa	364
Kansas	E-10277
Kentucky ¹⁶	90010
Kentucky ²	16
Louisiana	AI30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

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

Third Party Federal Accreditations

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

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

Our Locations

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



Released to Imaging: 9/25/2024 2:25:45 PM ConocoPhillips - Tetra Tech

PROJECT: 212C-MD-02119

SDG: L1238345

DATE/TIME: 07/28/20 13:22

			Billing Inform	mation:		Ť.	T	5		A	nalvsis / (Containe	er / Pres	ervative	1		Chain of	f Custody	Page _ of 2
ConocoPhillips - Tetra 901 West Wall Suite 100	Tech		Accounts Payable 901 West Wall Suite 100 Midland, TX 79701 Email To: christian.llull@tetratech.com						5. 26	and the second	P		-				- P	Pace Al National Canto	nalytical" er for Teating & Innovation
Midland TX 79701 Report to:			Email To: ch	hristian.llull@	Ptetratech.com		-										Mount A	ebanon Rd uliet, TN 3712	
Christian Llull		1.000			Dieas	Circles	_							10			Phone: 8	15 758-5858 100-767-5859	S. W
Project Description: COP MCA 2-C Header Release		City/State Collected:	Hobbs.	NM	Please Cip PT MT C				S			15 16	- 1	1		-	Fax: 615	-758-5859	1 39.433
Phone: 512-338-1667	Client Proje 212C-MD		- 1	Lab Project	# RA-212CMD0	2119		oPres	4ozClr-NoPres	oPres			1				Table	D13	
ollected by (print): JOHN MALER	Site/Facility	NTY, NEW N	VEXICO	P.O. #	ET .	1		ZCIr-N	4ozClr-	4ozChr-NoPres				1				im: COPT ate: T170	8345 ETRA
Collected by (signature):	Same Next Two	(Lab MUST Be Day Five Day 5 Da Day 10 D e Day	Day y (Rad Only)		Results Needed	6 of	lo. f	CHLORIDE-300 4ozClr-NoPres	GRO,V8260BTEX	TPH-DRO/ORO 4c					3		Prelog PM: 52 PB:	in: P784 26 - Chris I 1 1 6	175 McCord
Sample ID	Comp/Gra	b Matrix *	Depth	Date	Time		ntrs	CHL	GRC	HdT				-	-	-	Re	emarks	Sample # (lab only)
AH-15	Grah	SS	0-11	718	120 12:	00 -	1	×	X	X		1			-		-		- 9/
AH-15	1	SS	2'-3'	1	12:3	0	1	1	1	1		_		-	_	-	-	-	: 07
AH-25 AH-55	1.500	SS	0-1"		13:3	0						- E.				-	-		- 93
AH-55	1980	SS	2:3'	1-17	14:0	0	-				1	-	1	1	-		-		- 00
AH-7W		SS	01-1	1	14:3	20	1		1		-	1	1	17	-	_	-	2.3	-0-
AH-7W	Contraction of the	SS	21-3		15:0	00		-							_	2	-	-	
A14-7E		SS	0'-1"		15:	30	1					1		1	-	-	-		,a
AH-7E	-	\$5	11-3		16:	00						-	-				-		.2
AH-11W	3	55	0'-1'	130	16:	0			1.1			11 1	1.1	1	1		150	6.4	-0
AH-IIW	V	SS	71-3	0	and the second se		V	V	V	V	1		1				-		-1
Matrix: S - Soil AIR - Air F - Filter W - Groundwater B - Bioassay /W - WasteWater	Remarks: REJ	D COOLE	R	2 22	5	1	1		-	1	pH Flow		Temp Other	all.	- C	OC Seal OC Sign Nottles Norrect	mple Rec Present/ ed/Accura arrive in bottles	Intact: ite: itact: ised:	CKList NP V N Y N Y N
DW - Drinking Water DT - Other	Samples return UPSFed	ned via: IExCourie	er				01659 54			Sic	26			U	A Zero	Headspac	pplicable te:	CY N	
Relinquished by : (Signature)		Date: 7/9/2	Time 0 10	:30	Received by: (S	ol	0	cre	as	2	Trip Blank Received: Yes TNO HCL/MeoH TBR			P	Preservation Correct/Checked: _Y_N RAD Screen <0.5 mR/hr:N			A_N	
Relinquished by : (Signature)		Date;	Time	e:	Received by: (S	gnatur	e)				Temp:	al'	C Bottle	es Received		r preserva	tion requir	ed by Logi	n: Date/Time
				e:	a fund for her	Tun 10	v: (Signature)			1000	Date:		Time	11	ł	Hold:			Condition:-

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ConocoPhillips - Tetra 901 West Wall Suite 100	Tech		901 Wes Suite 100	s Payable t Wall		Pres Chk					Contai	er / Prese	Value			Chain of Custody	Page <u>2</u> of Analytical [®] ther for Theolog & Innove
Midland TX 79701 Report to:		1		hristian.llull@tet	tratech.com	-										12055 Lebanon Rd	
Christian Llull	~		1	-	1			1.11						- 1		Mount Juliet, TN 371 Phone: 615-758-585 Phone: 800-767-585	27-Los 1.7
Project Description: COP MCA 2-C Header Release		City/State Collected:	Hobbs	, NM	Please Ci PT MT	ET ET								- 1		Phone: 800-767-585 Fax: 615-758-5859	1 33.33
Phone: 512-338-1667	Client Project 212C-MD			Lab Project # COPTETRA-	212CMD021	19	oPres	4ozClr-NoPres	oPres							SDG # UN Table #	38345
Collected by (print):	Site/Facility	ID #	VEXICO	P.O. #	1.0	1.	4ozClr-NoPres	4ozClr-	4ozClr-NoPres	1.0						Acctnum: COP	
TOHN MYLER Collected by (signature) Imprediately Packed on Ice N Y X	Same		Notified) Quote #			No.	CHLORIDE-300 4c	GRO,V8260BTEX		10-10			7		-	Template: T170 Preiogin: P784 PM: 526 - Chris PB:	McCord
Sample ID	Comp/Grat	1	Depth	Date Time			CHLOR	GRO,V	TPH-DRO/ORO						1	Shipped Via: Fe Remarks	Sample # (lab on
AH-9W	Greb	55	0-11	718120	17:30	1	×	×	X	-						1 ad	-11
AH-9W	1	55	21.31	1	18:00	1	1	1	1			1				Dalas	-1
AH-9N	159.10	SS	0'-1'		18:30									_	-	15 de	1
AH-9N AH-9N		SS	2:3'	1. 18	19:00						12				1	1	-11
AH-8W		\$5	0'-1	1.00	19/30									_	-	0.0	-
AH-8W AH-8W	Y	SS	Z1-37	V	20:00	_	4	+	V	1			-	-			4
Trip-Blank-1	~	55	-	-	-	V									-		-1
and the second	-	55	1		1 13		-			-	-					-	
No. Contraction	_	SS	1	1900	1 3	-		1	1					-			
		SS	1	di se	1 2 36	1	12-	1	-			1		-		1	-
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks: F	ED - COO	ER					1		pH Flow		Temp_ Other_	(11) (11) (11)	C E	COC Seal	ample Receipt Chi Present/Intact: ed/Accurate; arrive intact: bottles used:	-NP - HA
DW - Drinking Water OT - Other	Samples returne UPS FedE			- 4/6	king #		-								TOA Zero	nt volume sent: <u>If Applicabl</u> Headspace: tion Correct/Che	14
Relinquished by : (Signature)	2	Date: 7/9/2	20 /0	:30 X	lived by: (Signa	the	livers			Trip Blank Received: Yes No HCL/Meo TBR			L/MeaH R	-	AD Scre	en <0.5 mR/hr:	<u> </u>
Relinquished by : (Signature)		Date:	Time	e: Rece	eived by: (Signa	lure)				Temp:	BA	C Bottles	Received	E I	t preserva	ation required by Log	in: Date/Time
Relinquished by : (Signature)		Date:	Time	e: Rece	lived for lab by	Signal	dre)	6		Date:	8.	Time:	80	3	Hold:	P.P.	Condition

Pace Analytical *

Login #: L1238345	Client:	Client: COPTETRA	Date: 7/10/20	Evaluated by: Troy Dunlap
Non-Conformance (check		applicable items)		
Sample Integrity		Chain of Custody Clarification	tion	No of all a lot all
Parameter(s) past holding time		X Login Clarification Needed		If Broken Container:
Temperature not in range		Chain of custody is incomplete	ete	Insufficient packing material around container
Improper container type		Please specify Metals requested.	sted.	Insufficient packing material inside cooler
pH not in range.		Please specify TCLP requested.	ed.	Improper handling by carrier (FedEx / UPS / Cour
Insufficient sample volume.	ne.	Received additional samples not listed on coc.	s not listed on coc.	Sample was frozen
Sample is biphasic.		Sample ids on containers do not match ids on coc	o not match ids on	Container lid not intact
Vials received with headspace.	space.	Trip Blank not received.		If no Chain of Custody:
Broken container		Client did not "X" analysis.		Received by:
Broken container:		Chain of Custody is missing		Date/Time:
Sufficient sample remains				Temp./Cont Rec./pH:
				Carrier:
				Tracking#

Login Comments: Sample AH-9W 2-3FT received empty.

Client informed by:	Call	Email	Voice Mail	Date: 7/13/20	14:01
TSR Initials: CM	Client Contac	ctt			
Login Instractions:					

WALK AND THE CASE THE COM

Client notified.

ConocoPhillips - Tetra 901 West Wall Suite 100 Midland TX 79701	a Tech		Billing Infor Accounts 901 West Suite 100 Midland,	a Payable t Wall		Pres Chk		S. St.		Analysis / Con		eservative		Chain of Custod	Analytical*
Report to: Christian Llull			Email To: ch	hristian.llull@	tetratech.com				E			1	1500	12065 Lebanon Rd Mount Juliet, TN 3	7122 445 40 14.35
Project Description: COP MCA 2-C Header Release		City/State Collected:	Hobbs, DM Please CI PT MT C						2					Phone: 615-758-58 Phone: 800-767-58 Fax: 615-758-5859	159
Phone: 512-338-1667	Client Project 212C-MD-		1.0000	Lab Project	# A-212CMD02	119	oPres	4ozClr-NoPres	NoPres					D1:	
Collected by (print): JOHN MILER	Site/Facility	ITY, NEW N	IEXICO	P.O. #	E 1		zCIr-Ne	tozClr-	4ozClr-N					Acctnum: CO	
Collected by (signature):	Same Next D Two D Three	(Lab MUST Be Day Five lay 5 Day ay 10 D Day	Day (Rad Only) ay (Rad Only)	Quote # Date R Stavoard	esults Needed	No. of Cntrs	CHLORIDE-300 4o2Clr-NoPres	GRO,V8260BTEX 4	TPH-DRO/ORO 40					Template:T17 Prelogin: P78 PM: S26 - Chri PB: Shipped Via: F	4175 s McCord
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time		E	GR(TPF		-	-	-	Remarks	Sample # (lab on)
AH-15-2	Greb	SS	0-11	7181	20 12:00	12	×	X	X			1	-		-9
AH-15-2	1	SS	2'-3'	1	12:30	1	1	1	1			1	1	-	20
AH-55-2	1.	55	0-1"	12	13:30					1	1.5				-9
AH-55-2	1920	SS	2:3'	1473	14:00	1-1			1	100		1			- 01
AH-7W-2		SS	01-1	12	14:30			1		1.15		170	-		-0
AH-7W-2	C AL	SS	21.3		15:00								120		•6
AH-7E-2		SS	0'-1"		15:30				ET.		1	3			_0
AH-7E-2		\$5	21-31		16:0	0		6			1				19
AH-1110-2		55	0'-1'	Contraction of the	16:36				11	100				A 500	-6
All III. Co	V	SS	21-3'	1	17:00	V	V	V	V						- 1
WW - WasteWater	Remarks: RED	COOLE	2	2 22	5	1			1	pH	Tem	200	COC Sea COC Sig Bottles Correct	Sample Receipt Ch al Present/Intact: med/Accurate: arrive intact: bottles used;	NP NY T
DW - Drinking Water OT - Other	Samples returned UPSFedEr		TOT	Tr	acking # 45	10	1659 54			26			a harden	ent volume sent: <u>If Applicab</u> to Headspace:	Le A N
Relinquished by : (Signature)	dia dia	ate: 7/9/20		30 V	ceived by: (Sign:	KO	cre	ast	2	Trip Blank Re		HCL/MeoH TBR	VOA Zero Headspace: Preservation Correct/Checked:		
Relinquished by : (Signature)	D	ate;	Time:	Re	ceived by: (Sign	ature)			1	Temp: 47	27	les Received:	If preserv	vation required by Log	in: Date/Time
Relinquished by : (Signature)	D	ate:	Time:	Re	ceived for lab b	: (Signat	ure)	-	-	Dates	Tim	830	Hold:	1 marsh	Condition-

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ConocoPhillips - Tetra 901 West Wall Suite 100	Tech		Billing Information: Accounts Payable 901 West Wall Suite 100 Midland, TX 79701			Pres Chk		1			011(811)	er / Preser	VOILE			Chain of Custody	Page <u>2</u> of Inalytical [®] ter for Teeting & Innove
Midland TX 79701 Report to: Christian Llull		Email To: christian.llull@tetratech.com													12055 Lebanon Rd Mount Juliet, TN 371 Phone: 615-758-5851		
Project Description: COP MCA 2-C Header Release		City/State Collected:	Habbs	, NM	Please Ci	ET	-									Phone: 800-767-585 Fax: 615-758-5859	B AR
Phone: 512-338-1667	Client Project 212C-MD		1.000	Lab Project # COPTETRA-2	12CMD021	19	oPres	4ozClr-NoPres	oPres							SDG # U2 Table #	38345
Collected by (print):	Site/Facility	ty ID # P.O. # UNTY, NEW MEXICO			11.00		4ozClr-NoPres	tozClr-	4ozClr-NoPres	1						Acctnum: COP	
TOHN MYLER Collected by (signature) Imprediately Packed on Ice N Y X	Same		Day	Quote # Date Result SHANDA/d,	ts Needed No. Rock	No. of	CHLORIDE-300 40	GRO,V8260BTEX 4	TPH-DRO/ORO 40	CON.	1					Template: T170 Prelogin: P784 PM: 526 - Chris PB: Shipped Via: Fe	McCord
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	CHLO	GRO,	I-HdT		1					Remarks	Sample # (lab on
AH-9W-2	Greb	55	0-11	718120	17:30	1	×	×	X		10				-	Sec. a	-11
AH-9W-2	1	55	21.31	ton 1	18:00	1	1	1	1			1			1	AND THE	-1
AH-9N AH-9N	153.91	SS	0'-1'	100	18:30			1			1			-	-	15 de	-13
AH-9N		SS	2'3'	E. P.	19:00							1	1		-	1 1	-11
AH-8W-2 AH-8W-2		\$5	0'-1	1.1	19:30							1	-		-		-1
AH-8W-2	Y	SS	Z1-31	V	20:00	1	4	+	V					-		3	4
Trip-Blank-1	~	55	-	-	-	V									-		1
a desta de la companya de la compa		SS	1	1.1	1.10%		-							-		1	
No. Comment		SS	1	1900	1 3	-		1				-				1.1	
		SS		de la	1.54		125	1	-			22				1	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater				ER						pH		TempOther		CO	C Seal P C Signed ttles ar	ple Receipt Che resent/Intact: /Accurate: rive intact: ttles used:	-NP - ANC
DW - Drinking Water OT - Other	ing Water Samples returned via:						10	VO	A Zero H	volume sent: <u>If Applicabl</u> eadspace: on Correct/Che	14						
Relinquished by : (Signature)	2	Date: 7/9/2	20 10	:30 X	ved by: (Signal	K	Qu	rea	×	Trip Blank	-1	HCL	/ MeoH	RAI	D Screen	<0.5 mR/hr:	<u> </u>
Relinquished by : (Signature)	6	Date:	Time	Recei	ved by: (Signal	lure)				Temp: 1	6H	Bottles	Received	lfp	preservatio	on required by Logi	in: Date/Time
Relinquished by : (Signature)	(Date:	Time	Recei	ved for lab by:	ISIgnat	dre)			Date:	8.		XD	3 HO	ld:		Condition

Chris McCord

From:	Dickerson, Ryan <u><ryan.dickerson@tetratech.com></ryan.dickerson@tetratech.com></u>
Sent:	Tuesday, July 21, 2020 1:37 PM
To:	Chris McCord
Cn	Llull, Christian
Subject:	L1238345 COC Revision
Attachments:	COC edits_L1238345.pdf

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

Chris,

samples from the site with those sample IDs and need to distinguish the latest samples. Can you revise the L1238345 Report to match the attached revised COC? Add "-2" to all samples except AH-9N. We have

Thanks,

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

Tetra Tech | *Leading with* Science[®] | OGA 8911 N. Capital of TX Hwy. | Bldg. 2, Ste 2310 | Austin, TX 78759 | <u>tetratech.com</u>

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APPENDIX D Laboratory Analytical Data

Part 2 Shallow and Deep Soil Assessments nAPP2117456525



February 18, 2022

CHRISTIAN LLULL TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C HEADER EAST 2 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/15/22 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 1 (0-1') (H220575-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	207	104	200	3.95	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	210	105	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	73.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	77.4	% 59.5-14	`						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 1 (2'-3') (H220575-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	207	104	200	3.95	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	210	105	200	2.20	
EXT DRO >C28-C36	14.3	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	90.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.5	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 2 (0-1') (H220575-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	86.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.1	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 2 (2'-3') (H220575-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	95.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102	% 59.5-14	2						

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Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 3 (0-1') (H220575-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	14.6	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	93.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.9	% 59.5-14	2						

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Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 3 (2'-3') (H220575-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	92.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.7	% 59.5-14	2						

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Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 4 (0-1') (H220575-07)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	89.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.3	% 59.5-14	2						

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Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 4 (2'-3') (H220575-08)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	80.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	83.4	% 59.5-14	2						

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Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 5 (0-1') (H220575-09)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	93.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.4	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 5 (2'-3') (H220575-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	97.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 6 (0-1') (H220575-11)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	98.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104 9	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 6 (2'-3') (H220575-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	95.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	101	% 59.5-14	2						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 7 (0-1') (H220575-13)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	92.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.7	% 59.5-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 7 (2'-3') (H220575-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	92.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.0	% 59.5-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 8 (0-1') (H220575-15)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	188	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	101	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	86.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	103 9	% 59.5-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/15/2022	Sampling Date:	02/15/2022
Reported:	02/18/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH -8 (2'-3') (H220575-16)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/16/2022	ND	1.98	98.8	2.00	9.13	
Toluene*	<0.050	0.050	02/16/2022	ND	1.92	96.2	2.00	9.06	
Ethylbenzene*	<0.050	0.050	02/16/2022	ND	1.88	93.8	2.00	9.38	
Total Xylenes*	<0.150	0.150	02/16/2022	ND	5.76	96.1	6.00	9.07	
Total BTEX	<0.300	0.300	02/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/16/2022	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2022	ND	237	119	200	0.984	
DRO >C10-C28*	<10.0	10.0	02/16/2022	ND	232	116	200	0.891	
EXT DRO >C28-C36	<10.0	10.0	02/16/2022	ND					
Surrogate: 1-Chlorooctane	92.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	98.6	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 19 of 20

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Project #: 2/2/	-MD-02/19 Project Owner:	ler:			
Project Name: /	MLA 21 Header Bo	Bast "2" Release	State: Zip:		
Project Location:	Les Con		Phone #:		
Sampler Name:	Coltan Bitkersoff		Fax #:		
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Delivered By: (Circle One) Sampler - UPS - Bus - Ot	Dircle One) Observed Temp. °C 22.0	Sample Condition	CHECKED BY:	Turnaround Time: Standard	Bacteria (only) Sample Condition

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Date: 71me:305 Date:	ent's exclusive remedy for an cause whatsoever shall be d quental damages, including of services hereunder by Co							I.D.		10	NN	der East	Project Owne	Fax #:	State:	tetratec	Lunt	Canaca F	, Hobbs, NM 88240 FAX (575) 393-2476
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Please provi Christien, Link Oteo	clusive remedy for any claim arising whether based in contract or ford, shall be lemind to the amount paid matacover shall be deemed waiked unless made in writing and received by Cardinal within 30 days after (damages, including without limitation, business interruptions, loss of use, or loss of profile incurred by or free heterunder by Cardinal, regardless of waiker such claim is based upon any of the above stated to the: The:	and a stage ventory for any claim arising whether based in contract or text, shall be demond whited unless made in writing and received by Cardinal within 30 days after completion of the applicable and demond whether unless made in writing and received by Cardinal within 30 days after completion of the applicable index writed try Cardinal, regardless of ventors in the arround paid by the claim by cardinal within 30 days after completion of the applicable interesting writer thermuptors, loss of use, or less of problem such claim is based upon any of the above stated reviews atte: Received By: Image: Received By: Verball Result: Yee All Result: Yee All Result: Verball Result: All Result: Verball Result: All Result: Verball Result: All Result: All Result: Remarkk:: All Result:	With a singly whether based in contract or but, shall be almost to the annount paid by the cleant for the Investicever shall be deemed valued unless match in writing and necessed by Cardinal within 30 days after composition of the applicable Intermetting whether based in contract or but, shall be almost to the annount paid by the cleant for the Intermetting whether based in contract or but, shall be almost to the annount paid by the cleant for the Intermetting whether based in contract or but, shall be almost to the annount paid by the cleant for the Intermetting whether and how the state almost to day a thre completion of the appletion. 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February 21, 2022

CHRISTIAN LLULL TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C HEADER EAST 2 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/16/22 15:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 1 (0-1') (H220609-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	02/19/2022	ND	2.06	103	2.00	1.57	
Toluene*	<0.050	0.050	02/19/2022	ND	2.05	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	02/19/2022	ND	1.97	98.6	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/19/2022	ND	6.12	102	6.00	0.966	
Total BTEX	<0.300	0.300	02/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.1	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 1 (2'-3') (H220609-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2022	ND	2.06	103	2.00	1.57	
Toluene*	<0.050	0.050	02/19/2022	ND	2.05	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	02/19/2022	ND	1.97	98.6	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/19/2022	ND	6.12	102	6.00	0.966	
Total BTEX	<0.300	0.300	02/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	85.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.8	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 1 (4'-5') (H220609-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2022	ND	2.06	103	2.00	1.57	
Toluene*	<0.050	0.050	02/19/2022	ND	2.05	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	02/19/2022	ND	1.97	98.6	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/19/2022	ND	6.12	102	6.00	0.966	
Total BTEX	<0.300	0.300	02/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	89.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.3	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 1 (6'-7') (H220609-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2022	ND	2.06	103	2.00	1.57	
Toluene*	<0.050	0.050	02/19/2022	ND	2.05	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	02/19/2022	ND	1.97	98.6	2.00	1.20	
Total Xylenes*	<0.150	0.150	02/19/2022	ND	6.12	102	6.00	0.966	
Total BTEX	<0.300	0.300	02/19/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	80.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.7	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 1 (9'-10') (H220609-05)

BTEX 8021B	mg,	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	94.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	102	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 1 (11'-12') (H220609-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	92.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100	% 59.5-14	2						

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Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 2 (0-1') (H220609-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	88.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.1	% 59.5-14	2						

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Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 2 (2'-3') (H220609-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	89.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.5	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 2 (4'-5') (H220609-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	89.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.5	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 2 (6'-7') (H220609-10)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	85.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	88.6	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 2 (9'-10') (H220609-11)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	86.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.0	% 59.5-14	2						

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Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 2 (11'-12') (H220609-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	89.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.6	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 3 (0-1') (H220609-13)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	37.9	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	98.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	104	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 3 (2'-3') (H220609-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2022	ND	2.23	112	2.00	4.26	
Toluene*	<0.050	0.050	02/18/2022	ND	2.22	111	2.00	4.68	
Ethylbenzene*	<0.050	0.050	02/18/2022	ND	2.14	107	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/18/2022	ND	6.62	110	6.00	3.65	
Total BTEX	<0.300	0.300	02/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	85.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.0	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 3 (4'-5') (H220609-15)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	96.9	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	47.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	88.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.8	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 3 (6'-7') (H220609-16)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	114	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	11.1	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	86.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	95.1	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 3 (9'-10') (H220609-17)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	117	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	23.8	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	90.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100	% 59.5-14	2						

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Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 3 (11'-12') (H220609-18)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	27.8	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	85.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.6	% 59.5-14	2						

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Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 4 (0-1') (H220609-19)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	92.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	97.4	% 59.5-14	2						

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Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 4 (2'-3') (H220609-20)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	02/18/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	237	118	200	0.462	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	226	113	200	0.933	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	87.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.1	% 59.5-14	2						

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Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 4 (4'-5') (H220609-21)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	02/18/2022	ND	400	100	400	3.92	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	219	110	200	0.691	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	215	107	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	94.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.6	% 59.5-14	2						

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Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 4 (6'-7') (H220609-22)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	02/18/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	219	110	200	0.691	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	215	107	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	96.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.6	% 59.5-14	2						

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TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 4 (9'-10') (H220609-23)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	02/18/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	219	110	200	0.691	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	215	107	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	98.9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.5	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/16/2022	Sampling Date:	02/16/2022
Reported:	02/21/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: T - 4 (11'-12') (H220609-24)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2022	ND	2.14	107	2.00	1.56	
Toluene*	<0.050	0.050	02/20/2022	ND	2.12	106	2.00	2.72	
Ethylbenzene*	<0.050	0.050	02/20/2022	ND	2.04	102	2.00	2.16	
Total Xylenes*	<0.150	0.150	02/20/2022	ND	6.33	106	6.00	2.59	
Total BTEX	<0.300	0.300	02/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	02/18/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2022	ND	219	110	200	0.691	
DRO >C10-C28*	<10.0	10.0	02/18/2022	ND	215	107	200	2.46	
EXT DRO >C28-C36	<10.0	10.0	02/18/2022	ND					
Surrogate: 1-Chlorooctane	99.8	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

С ALC PS

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 27 of 29

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Delivered By: (Circle One) Sampler - UPS - Bus - Other:		analyses. All claims including those for negligence and any other cause whatsoever shall be deamed waived unless made in writing and received by Cardinal within 30 days after completion of the applicab service. It no event shall Cardinal be liable for incidental or consequential damages, including what institution, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, aritilities or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whather such claim is based upon any of the above stated measons or otherwise. Relinguished By:	10 T-	200	110	67	5	20	74	11	H220609	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name: /	Project #: 2/2C	Phone #:	City:	Address: Chr	Project Manager:	
	Blinegy	fing those for negligence and any other Cardinal be liable for incidential or conse sing out of or related to the performance W:	-2-(6'-7') mages. Cardinal's liability and	-2 (4:5)	-2 (0 1')	-1 (11'-12')	C.01-67 1-	-1 66-71	-1 (2-5)	-1 (0-1)		Sample I.D.		Cotton St	2	VA 22 He	-MD-02119			Johan. Llut	Ch-MAnn	amin anavo
Observed Temp. °C 22.8 Corrected Temp. °C 22.3	Time:	er cause whatsoever shall be dee neequental damages, including we nee of services hereunder by Carr Date:	2-C6 ¹ -7 ¹) WW W with a client's exclusive remedy for any claim arising whether based in contract or toot shall be limited in the amount and to the client to the									I.D.		Kent	ownty MM	Header Bast	9 Project Owner:	Fax #:	State:	left Ante	Land	un bo
8.66	Received By	dearned waived unless m without limitation, busine ardinal, regardless of wh								6	# CON	B OR (C)ON TAINERS	IP,			Nº N	ā		Zip:	edican		
Sample Condition Cool Intact Yes Yes	By:	med waived unless made in writing and receit hout limitation, business interruptions, loss of nal, regardless of whether such claim is base perceived Rv.	A thether based in contract or							×	WASTE SOIL OIL SLUDG	EWATER	MATRIX			Release						
4	Illas	eceived by Cardina is of use, or loss of based upon any of	fort shall be limite								OTHER ACID/B	ASE: OOL	PRESERV	Fax #:	Phone #:	State:	City:	Address:	Attn: Ch	Company: Tetra	P.O. #:	
(Initials)	Sel	ardinal within 30 days att loss of profits incurred by any of the above stated n	of to the amount re-	-			-	-	-	2/14/22	DATE			1		Zip:		by errat	VIDEN 1	Tehra T		DIFFIC
Turnaround Time: Thermometer ID #1 Correction Factor -0	All Results are	easons or otherwise	in the flan fant for							4	TIME		SAMPLING					Hr.	lunte	Tech		
d Time: er ID #113 Factor -0.5°C	Stran, Lla	pplicab	X V						-5	X	TP	H		_			_					
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Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	- 7																		_		-	REQUEST

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obbs, NI X (575) :	tor	S
1 East Marland, Hobbs, NM 88240 575) 393-2326 FAX (575) 393-2476	Ies	PL

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 28 of 29

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us	Bix (those for neglig dinal be liable to yout of or relate	

L'UTION VIENT			
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Address: Chryfren LL	eletratech, Co	Company: Apptre Trees	
City:	State: Zip:		
Phone #:	Fax #:	erro	
Project #: 2/2C-MD-02	0249 Project Owner:		
Project Name: MLA 20	8	State: Zip:	
Project Location: Lea (A	MM	Phone #:	
Sampler Name: Coltro	Rickarder	Fax #:	
		PRESERV. SAMPLING	
Lab I.D. Sam	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	TPH BTEX Chartole
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15 T-3 (4-5) 16 T-3 (6-7) 17 T-3 (9-16) 18 T-3 (1-12)			
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analyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidential or conse affiliates or successors arising out of or related to the performance	cause whatsoever shall be deemed quental damages, including without of services hereunder by Cardinal, I	reveny wreares usesse ar source or and starts or entry to the amount paid by the definition of the as wahed unless made in writing and received by Cardinal within 30 days after completion of the as imitation, business interruptions, loss of use, or loss of profits incurred by client, it's advailaries; regardless of whother such claim is based upon any of the above stated reacons or intervene regardless of whother such claim is based upon any of the above stated reacons or intervene	Son of the applicable subsidiaries, ubsidiaries
Relinquished By:	Date: 2//6/22 Time: Date: Time:	Ulablyc	Verbal Result: □ Yes ¥ No Add'I Phone #: All Results are emailed. Please provide Email address: (hr){Aten, 2. lnM. @Actrodicch.can REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 22.8 Sample Condition Corrected Temp. °C 22.3 Sample Condition	CHECKED BY:	Turnaround Time: Standard II Bacteria (only) Sample Condition Thermometer ID #113 Construct Early #113 Construct Early #113

101 East Marland. Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 29 of 29

Received b	y OCD:	6/6/2023	9:06:06	AM
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February 25, 2022

CHRISTIAN LLULL TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C HEADER EAST 2 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/21/22 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

mile Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	02/21/2022	Sampling Date:	02/21/2022
Reported:	02/25/2022	Sampling Type:	Soil
Project Name:	MCA 2C HEADER EAST 2 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02119	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA CO NM		

Sample ID: AH - 9 (0-1') (H220655-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2022	ND	2.25	113	2.00	0.275	
Toluene*	<0.050	0.050	02/24/2022	ND	2.34	117	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.29	115	2.00	1.40	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	7.12	119	6.00	1.17	
Total BTEX	<0.300	0.300	02/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/22/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/23/2022	ND	210	105	200	3.13	
DRO >C10-C28*	<10.0	10.0	02/23/2022	ND	213	106	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	02/23/2022	ND					
Surrogate: 1-Chlorooctane	104	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	106	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Mile Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Mile Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Page 279 of 425

Received by OCD: 6/6/2023 9:06:06 AM

Project Manager: Charles Lunt	9	P.O. #:	ANALYSIS REQUEST
Address: Chrifthan Ulah Otetra tech. City: State:	Carls Zin:	any:	
Phone #: Fax #:		1/0	
Project #:212-MO- 02/19 Project Owner:		City:	
2 Header	" Relache	State: Zip:	
" Lea County, M		*	
e: Coltes		Fax #:	
	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.			<u>'</u> eg
1 AH-9 (0-1)	# COI GROU WAST SOIL OIL SLUD	ACID/BASE: CE / COOL DTHER :	IPM BTEX Chlorbo
	GROU	ACID/BASE: ICE / COOL OTHER : 2/21/22 TIME	BTEX
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the nalyzes. All cloims including those for negligence and any other cause whatboever shall be deemed waived unlines much on witting and received by Cardinal within 30 days after completion of the applicable profee. In no event shall Cardinal be liable for incidential or comequential damages, including without limitation, business interruptions, loss of use or loss of tools incurned by client as overclass.	GROU	ACID/BASE: ACID/BASE: ICE / COOL OTHER : DATE DATE TIME USE of the amount paid by the client for th estant be finance to the amount paid by the client for the estant be finance or the amount paid by the client for the	BTEX
CASE NOTE: Linkbilly and Damages. Cardinal's liability and client's auchasive remedy lyves. An lower shoulding those for negligence and any other cause whatsoewer sho lyves. In no event shall Cardinal be liable for incidential or consequential damages, includes a services have under latter or successors arising out of or related to the performance of services hereunde services hereunde	GROU	ACID/BASE: ACID/BASE: ICE / COOL OTHER : 2/2/1/22 2/2/1/22 2/2/1/22 Under the inneed to the amount paid by the client for the shall be inneed to the amount paid by the client for the application of the application	Policiele
LEASE NOTE: Unbilly and Damages. Cardinal's liability and client's exclusive namely for any claim ninking whether based in contrast or fort, shall be limited to the amount paid by the client for the network in no event sail Cardinal to the indentiat or tord, shall be limited to the amount paid by the client for the network in no event sail Cardinal by the client or corresources while damages. All clients and any other curves whateoever shall be deemed waiwed unless made in contrast or fort, shall be limited to the amount paid by the client for the amount paid by the client for the amount paid by the client or tord, shall be limited to the amount paid by the client or to a state compation of the amount paid by the client or consequential damages. All clients and the limited to the performance of sankies thereunder by Cardinal ingenties of whether such claim is based upon any of the access stated reacons or dimenses. Relinquished By: Date: Received By: All Results as a limit. All Results as the same of the same state of the same of the same of the access state reacons or dimenses. All Results as a limit. Column Using By: Date: Received By: All Results as a limit. All Results as a limit of the same of the	esty for any claim ansing whether based in contrast or toot. Shall be deemed waiked unless make in writing and the deemed waiked unless make to solid an outrast or toot. Shall be deemed waiked unless make in writing and rook in writing and rook in writing and rook in the solid and the solid an	ACID/BASE: ACID/BASE: ICE / COOL OTHER : DATE TIME LICE / COOL OTHER : 2/21/22 UDATE TIME 2/21/22 ACID/BASE: TIME DATE TIME 2/21/22 ACID/BASE: TIME DATE TIME 2/21/22 ACID/BASE: ACID/BASE: TIME DATE TIME ACID/BASE: ACID/BASE	Int Yes

APPENDIX D Laboratory Analytical Data

Part 3 Confirmation Soil Samples nRM1930950727 and nAPP2117456525



March 17, 2023

CHRISTIAN LLULL TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/16/23 16:02.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/16/2023	Sampling Date:	03/16/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 1 (H231212-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/17/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	97.2	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	119	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/16/2023	Sampling Date:	03/16/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 2 (H231212-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/16/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/16/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/16/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/16/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/17/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/16/2023	Sampling Date:	03/16/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 3 (H231212-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/17/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/17/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	91.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/16/2023	Sampling Date:	03/16/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 1 (H231212-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/17/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/17/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	95.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/16/2023	Sampling Date:	03/16/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 2 (H231212-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/17/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/17/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	93.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHRISTIAN LLULL 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/16/2023	Sampling Date:	03/16/2023
Reported:	03/17/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 3 (H231212-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	2.06	103	2.00	0.570	
Toluene*	<0.050	0.050	03/17/2023	ND	2.05	103	2.00	0.880	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	2.14	107	2.00	0.488	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	6.63	111	6.00	1.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/17/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	196	97.9	200	3.37	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	195	97.4	200	8.25	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	92.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 1/25/2024 2:25:45 PM

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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March 20, 2023

CHUCK TERHUNE TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/17/23 11:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/17/2023	Sampling Date:	03/17/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 3 (H231228-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	1.96	98.2	2.00	2.98	
Toluene*	<0.050	0.050	03/17/2023	ND	1.94	97.2	2.00	4.83	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	1.93	96.3	2.00	4.33	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	5.81	96.9	6.00	3.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/20/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2023	ND	184	92.2	200	3.24	
DRO >C10-C28*	<10.0	10.0	03/17/2023	ND	176	87.9	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	03/17/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/17/2023	Sampling Date:	03/17/2023
Reported:	03/20/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 4 (H231228-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2023	ND	1.96	98.2	2.00	2.98	
Toluene*	<0.050	0.050	03/17/2023	ND	1.94	97.2	2.00	4.83	
Ethylbenzene*	<0.050	0.050	03/17/2023	ND	1.93	96.3	2.00	4.33	
Total Xylenes*	<0.150	0.150	03/17/2023	ND	5.81	96.9	6.00	3.94	
Total BTEX	<0.300	0.300	03/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/20/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2023	ND	184	92.2	200	3.24	
DRO >C10-C28*	<10.0	10.0	03/18/2023	ND	176	87.9	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	03/18/2023	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose share there applied by the services arise of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 6/6/2023 9:06:06 AM

PLEASE NOTE: Liability and Darmages. Cardinal's liability and client analyses. All claims including those for moligence and any other ce service. In no event shall Cardinal be liable for incidential or consecu- andilates or successors arbitring out of or related to the performance of Relinquished By: Relinquished By: Delivered By: (Circle One) Obs	Lab I.D. H23 1228	Chan Huch	101 Eas (575) :
PELASE NOTE: Liability and Damages. Cardinal's liability and dant's exclusive emmedy for any claim arising whether based in contract of tot, shall be limited to the amount paked by the claim for the analyses. All claims including those for mogligence and any other cause whichower shall be deemed whether used in contract of tot, shall be limited to the amount paked by the claim for the application and any other cause whichower shall be deemed whether used in contract of tot, shall be limited to the amount paked by the claim for the application of the application of an related to the performance of services hereunder by Cardinal, regardlese of whether such claim is based upon any of the above stated reserved by the claim to the application. It is a of profile incurred by direct stated and the application of the application. Relinquished By: Date: Time: 1:: 26 Verbail Result: Relinquished By: Date: Received By: All Result: Relinquished By: Date: Received By: All Result: Relinquished By: Date: Received By: All Result: Relinquished By: Observed Temp. °C % Sample Condition Corrected Temp. °C Sampler - LIPS - Bus - Other: Corrected Temp. °C % Sample Condition Turnaround Time Sampler - LIPS - Bus - Other: Corrected Temp. °C % Sample Condition Turnaround Time	Sample I.D.	Les Techunt Vest Bluby Suite State: TX S-8965 Fax#:- 02235 Project Owner 02235 Project Owner 20 Remedisticon amag NM amag NM	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
The enclose remode for any claim action whether based is contract or tort, shall be lemited to the use whatsoever shall be deemed walked unless made in witting and neaked by Cardinal, enclosed by activations, based upon any of the abort any claim is based upon any of the abort any c	GRAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER X SOIL OIL SLUDGE	Zip: 77047	76
tor tort, shall be limited to the amount paid by the cleant for the denet for the denet for the organized upon any of the above stated reasons or ortherwise. The based upon any of the above stated reasons or otherwise. The stated and the above stated reasons or otherwise. The momenter of the state of the above stated reasons or otherwise. The momenter of the state of the above stated reasons or otherwise. The momenter of the state of the above stated reasons or otherwise. The momenter of the state of the st	OTHER : ACID/BASE: X ICE / COOL OTHER : OTHER :	P.O. #: 210-440-02235 Company: Tetra Tech Attn: Charles Tech Address: Sand City: Sand City: Zip: Phone #: Phone #: PRESERV SAMPLING	BILL TO
amount paid by the client for the ourse days after completion of the applicable nourse by client, tas buildinging. We stated reasons or otherwise We stated reasons of the	N Chloridy		
Add"l Phone #: I Yes I No Add"l Phone #: mailed. Please provide Email address: Standard Bacteria (only) Sample Condition Condition Observed Temp. °C Ves Yes 0.6°C Corrected Temp. °C			ANALYSIS REQUEST

Page 5 of 5



March 22, 2023

CHUCK TERHUNE TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/20/23 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/20/2023	Sampling Date:	03/20/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 4 (H231257-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2023	ND	2.21	110	2.00	5.77	
Toluene*	<0.050	0.050	03/21/2023	ND	2.24	112	2.00	6.28	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.18	109	2.00	4.45	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.76	113	6.00	4.18	
Total BTEX	<0.300	0.300	03/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/21/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	63.4	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	32.5	10.0	03/22/2023	ND					
Surrogate: 1-Chlorooctane	92.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/20/2023	Sampling Date:	03/20/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 4 (H231257-02)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2023	ND	2.21	110	2.00	5.77	
Toluene*	<0.050	0.050	03/21/2023	ND	2.24	112	2.00	6.28	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.18	109	2.00	4.45	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.76	113	6.00	4.18	
Total BTEX	<0.300	0.300	03/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/21/2023	ND	432	108	400	7.69	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/20/2023	Sampling Date:	03/20/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 5 (H231257-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2023	ND	2.21	110	2.00	5.77	
Toluene*	<0.050	0.050	03/21/2023	ND	2.24	112	2.00	6.28	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.18	109	2.00	4.45	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.76	113	6.00	4.18	
Total BTEX	<0.300	0.300	03/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/21/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					
Surrogate: 1-Chlorooctane	97.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/20/2023	Sampling Date:	03/20/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 5 (H231257-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2023	ND	2.21	110	2.00	5.77	
Toluene*	<0.050	0.050	03/21/2023	ND	2.24	112	2.00	6.28	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.18	109	2.00	4.45	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.76	113	6.00	4.18	
Total BTEX	<0.300	0.300	03/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/21/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					
Surrogate: 1-Chlorooctane	94.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/20/2023	Sampling Date:	03/20/2023
Reported:	03/22/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 5 (H231257-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2023	ND	2.21	110	2.00	5.77	
Toluene*	<0.050	0.050	03/21/2023	ND	2.24	112	2.00	6.28	
Ethylbenzene*	<0.050	0.050	03/21/2023	ND	2.18	109	2.00	4.45	
Total Xylenes*	<0.150	0.150	03/21/2023	ND	6.76	113	6.00	4.18	
Total BTEX	<0.300	0.300	03/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/21/2023	ND	432	108	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2023	ND	172	85.9	200	7.86	
DRO >C10-C28*	<10.0	10.0	03/22/2023	ND	158	79.1	200	13.6	
EXT DRO >C28-C36	<10.0	10.0	03/22/2023	ND					
Surrogate: 1-Chlorooctane	91.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

PLEASE NOTE: Liability and Damages. C analyses. All claims including the single service. In no event shall Cardinal be liable affitutes or successors arising out of or real Relinquished By: Relinquished By: Delivered By: (Circle Court	Address: ISO0 City Must City: Houtston Phone #: 201- 155- 896 Project Name: MCA 72 Rch Project Location: Multicymus Sampler Name: Brody Liuht Forwause owy Forwause owy HZ31257 Lab I.D. Sample HZ31257 Lab SW-4 2 CSW-4 3 WSW-5 5 FS-5	Project Manager
PLEASE NOTE: Listilly and Damages. Cardinal's liability and cleart's exclusive namely for any claim arising whether based in contract or fort, shall be immedia to the clear for the service. In no event shall Cardinal be liable for incidential or other cause whistower shall be demond valued unless made in writing and recoived by Cardinal, which 30 days after completion of the applicable and recoived by Cardinal, which 30 days after completion of the applicable and recoived by Cardinal, which 30 days after completion of the applicable and recoived by Cardinal, which 30 days after completion of the applicable and recoived by Cardinal, which 30 days after completion of the applicable and recoived by Cardinal, which 30 days after completion of the applicable and recoived by Cardinal, which 30 days after completion of the applicable and recoived by Cardinal, which are on any of the above stand reasons or otherweat. Relinquished By: Relinquished By: Delivered By: Circle Dow Remarks: Time:	Aurcles Terhune State: 	5
T any claim arising whether based in contract or to be deemed waiwed unliess made in writing and rec fing without limitation, business interruptions, loss Y Cardinal, regardless of whether such claim is be Received BY: Received BY:	Image: Suff loop Suff loop Image: Suff loop Image: Suff loop	
of, shall be limited to the amount p solved by Cardinal within 30 days at of use, or loss of profits incurred by seed upon any of the above stated r	P.O. #: 212 C - HU -0723 Company: John Teuhy Inc. Attn: Chuck Terhune Address: City: State: Zip: Phone #: Fax #: Fax #: ICE / COOL OTHER: 3/to123 120/23 1241 3/to123 120/23 1302	BILL 1
re en	XXXX BTEX by 8021B	70
ie In Yes □ No Ad	XXXX TPH by 8015 M XXXX Chloride by SM 4500 CI-B	
Add'l Phone #:		



March 23, 2023

CHUCK TERHUNE TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/21/23 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 6 (H231289-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 6 (H231289-02)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 6 (H231289-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	133 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 7 (H231289-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 7 (H231289-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 7 (H231289-06)

BTEX 8021B	mg,	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 8 (H231289-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 8 (H231289-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/21/2023	Sampling Date:	03/21/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 9 (H231289-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/22/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/23/2023	ND	432	108	400	7.14	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	158	78.9	200	4.77	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	176	87.8	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 314 of 425

Received by	OCD :	6/6/2023	9:06:06	AM
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Brody Lichtenburger Relinquished By:	PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive ramedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the clent for the applicable analyses. All claims including those for neglegence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, incidential who days after completion of the applicable analyses or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or cherwise. Received BY: Date: Verbal Result: C	Project Manager: Churles T Address: 1500 City West City: Houston Phone #: 281- 755- 8965 Project Name: MCA 72 Rep Project Location: Muljumur, Sampler Name: Brody Lituh Fortususe only Fortususe only Fortuse o	Company Name: Tetru	101 East M (575) 393
Observed Temp. °C		e and any other cause whatsoever shall be do codential or consequential damages, including v codential or consequential damages, including v the performance of services hereunder by Ca the performance of services hereunder by Ca	Er hune State: TX Fax #: Project Owner Indiation UM UM emberger	Techilne.	aboratories 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
2.3 Sample Condition Cool Intact 2.7 Pres Pres No No No	Received By:	remedy for any claim arising whether based in contract or tort, wer shall be deemed walved unless made in writing and receiv ges, including without imhation, business interruptions, loss of reunder by Cardinal, regardless of whether such claim is base reunder by Cardinal, regardless of whether such claim is base	GROUNDWATER WASTEWATER XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		76 10
CHECKED BY: (Initials)	later	shall be limited to the amount paid by the clent for the vee of yCardinal within 30 days after completion of the use, or loss of profiles incurred by client, its subsclaim ed upon any of the above stated reasons or otherwise of upon any of the above stated reasons of the above stated reasons or otherwise of the above stated reasons of the	eserv. SAMI strate His or Chuck Techu strate Size I cool OTHER: Size I conv Size I conv Si	BILL TO	P01197406
Turnaround Time: Standard Rush Thermometer ID #113 Correction Factor -0.6°C 3 dcw T	All Kesults are emailed. Please REMARKS:	30 days after completion of the applicable nourned by client, its subsidiaries. ve stated reasons or otherwise.	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
Bacteria (only) S Cool Intact Yes Yes NG No	emailed. Prease provide Email address:	No Add'l Phone #:		ANALYSIS REQUEST	
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Ves Yes Nc No Corrected Temp. °C				JEST	



March 23, 2023

CHUCK TERHUNE TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/22/23 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 8 (H231323-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 9 (H231323-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	69.9	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	48.2	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	129	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	150	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 9 (H231323-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	128 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	143 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 10 (H231323-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	39.7	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	27.5	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	134	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	154	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 10 (H231323-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	96.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 10 (H231323-06)

BTEX 8021B	mg	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	121	48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 11 (H231323-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	131	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 11 (H231323-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	132	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 12 (H231323-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 12 (H231323-10)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	221	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	172	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	134 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	163 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 13 (H231323-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	128	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	144	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 13 (H231323-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2023	ND	2.04	102	2.00	0.305	
Toluene*	<0.050	0.050	03/22/2023	ND	2.07	103	2.00	0.518	
Ethylbenzene*	<0.050	0.050	03/22/2023	ND	2.16	108	2.00	0.331	
Total Xylenes*	<0.150	0.150	03/22/2023	ND	6.63	111	6.00	0.172	
Total BTEX	<0.300	0.300	03/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	161	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	106	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	127 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	159 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/22/2023	Sampling Date:	03/22/2023
Reported:	03/23/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 14 (H231323-13)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	1.99	99.3	2.00	0.793	
Toluene*	<0.050	0.050	03/23/2023	ND	2.00	99.9	2.00	2.93	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.01	101	2.00	3.01	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.10	102	6.00	1.67	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/23/2023	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/23/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/23/2023	ND					
Surrogate: 1-Chlorooctane	127	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	143	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 17

Received by OCD: 6/6/2023 9:06:06 AM

101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Propert Manager: Int. Propert Manager: Int. Propert Manager: Int. Project Manager: Int. Project Manager: Int. Project Mame: Int. Project Name: Int. Sampler Name: Brough Lichtanberger Sampler Name: Brough Lichtanberger Sampler Name: Brough Lichtanberger Provenue use own Sampler I.D. Lab I.D. Sampler I.D. Lab I.D. Sampler I.D. 2 55.00 - 1 Gig (GOMP. 2 55.00 - 1 Gig (GOMP. 3 05.00 - 1 Gig (GOMP. 4 1 55.00 - 1 Gig (GOMP. 4 1 55.00 - 1 Gig (GOMP. 4 1 55.00 - 1 Gig (GONP. 5 1 1 55.00 - 1 Gig (GONP. 6 1 1 56.00 - 1	fobbs, NM 88240 XX (575) 393-2476 XX (575) 393-2476 State: TX State: TX Fax #: Project Owner: bartiged Any of the second secon
	BILL TO P.O. #: DO II 97 1401 Company: [chrv. 16dh, Attn: (huuck Texhun Address: City: State: Phone #: Fax #: Phone #: Pix Pix State: Vill OIL SLUDGE OIL SLUDGE Phone #: Fax #: Phone #: Pix SLUDGE OIL SLUDGE Vill ACID/BASE: Vill OTHER: SLUDGE Vill OIL SLUDGE Vill OIL SLUDGE Vill OIL SLUDGE Vill OIL SLUDGE Vill SLUDGE Vill OIL SLUDGE OIL SLUDGE OIL SLUDGE Vill SLUDGE Vill SLULTS SLULTS SLULTS SLULTS SLU

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Released to Imaging: 1/25/2024 2:25:45 PM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Phone #: 281-755-8965 Project Location: May supraw, NW Project Name: MCA 21 Remediation Project #: 2/2C-HN-62235 Project Owner: Address: 1500 Lity West Boleward Sampler Name: Relinquished By: Relinquished By: service. In no event shall Cardinal be liable for incidental or con PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any client analyses. All claims including those for negligence and any other cause whatsoever shall be deemed H23323 FOR LAB USE ONLY Sampler - UPS - Bus - Other: Delivered By: (Circle One) Lab I.D. Brody Lichtenberge Housten G N WSW-13 ESW-R ESW-14 Sample I.D. to the pe 3 EBL intenbenden Observed Temp. °C Corrected Temp. °C Fax #: Time: 1555 uental damages, including without limitation, business inten State: Date: Date: Time: 3/22/23 hereunder by Cu X Suite Zip: (G)RAB OR (C)OMP D TT Received/By: **Received By # CONTAINERS** Majvec arising whether 2nor 1000 GROUNDWATER unless made in writing and received by Cardinal within 30 days after completion of the applicable Cool Intact WASTEWATER Sample Condition MATRIX XXXSOIL OIL ptions, loss of use, or loss of profits incurred by client, its subsidiaries SLUDGE act or tort, shall be State: City: Fax #: Attn: (huck Tel hune Company: letra leh, Inc Phone #: OTHER Address: ACID/BASE PRESERV ipon any of the ICE / COOL XX CHECKED BY: (Initials) OTHER Zip 3/22/23 1500 3/22/23/1425 S 122/23 1420 DATE SAMPLING It paid by the client for the Turnaround Time: All Results are emailed. Please provide Email address: Thermometer ID #113 Correction Factor -0.6°C REMARKS: Verbal Result: TIME 8021 R D Yes 0 015 N 24 Standard 4500 CI-B SM O No hour Add'l Phone #: X Cool Intact Bacteria (only) Sample Condition Corrected Temp. °C Observed Temp. å

Received by OCD: 6/6/2023 9:06:06 AM

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Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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ARDINA

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

Inc

P.O. # 00121406

BILL TO

ANALYSIS

REQUEST

City:

Project Manager: Charles Terhune

Company Name: Tetra lech



March 24, 2023

CHUCK TERHUNE TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/23/23 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

mile Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 14 (H231345-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	511	10.0	03/24/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	281	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

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Mile Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 14 (H231345-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	139	10.0	03/24/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	112	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 15 (H231345-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	168	84.0	200	3.23	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	173	86.6	200	2.04	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 15 (H231345-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	50.6	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	31.4	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 15 (H231345-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	36.6	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	22.9	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	95.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 16 (H231345-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 16 (H231345-07)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	79.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.6	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 17 (H231345-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.0	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 16 (H231345-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	29.8	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	13.2	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	74.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 17 (H231345-10)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 18 (H231345-11)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	72.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.4	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 18 (H231345-12)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	70.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.1	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 19 (H231345-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	35.9	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	21.9	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	76.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.9	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 18 (H231345-14)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 19 (H231345-15)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	73.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.4	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 20 (H231345-16)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/24/2023	ND	416	104	400	7.41	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	96.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 19 (H231345-17)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/23/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/23/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/23/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/24/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	74.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.2	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 20 (H231345-18)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.02	101	2.00	0.940	
Toluene*	<0.050	0.050	03/24/2023	ND	2.05	103	2.00	1.47	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.15	108	2.00	1.87	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.63	110	6.00	2.53	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/24/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/23/2023	Sampling Date:	03/23/2023
Reported:	03/24/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 21 (H231345-19)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.04	102	2.00	1.61	
Toluene*	<0.050	0.050	03/24/2023	ND	2.04	102	2.00	1.16	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.12	106	2.00	1.46	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.56	109	6.00	1.71	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	03/24/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/24/2023	ND	210	105	200	14.0	
DRO >C10-C28*	<10.0	10.0	03/24/2023	ND	202	101	200	4.72	
EXT DRO >C28-C36	<10.0	10.0	03/24/2023	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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whe Sigh

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUIEST

Released to Imaging: 1/25/2024 2:25:45 PM

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Total Tech Inc. BILL TO ANALYSIS	(575) 393-2326 FAX (575) 393-2476 BILL TO ANALYSIS		5			P.O.		cohune	Churles	roject Ma
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler Name: Phone #: 281 - 755 - 8965 Company Name: Tetra Techy Inc. Project Location: With Project Name: MCA ZC Remediation Project #: 2122-HN-02235 city: Houston Address: 1500 Project Manager: 4231345 FOR LAB USE ONLY Lab I.D. 4 (is N ESW-18 ESW-19 Bre FS-18 65W-20 WSW-19 hurles Jornune ity West Jamas, NM Sample I.D. Schten Bouleving Fax #: Prove Project Owner: State: × Zip: P 22 T S P S (G)RAB OR (C)OMP Suite LOOD **# CONTAINERS** 24045 GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE City: Attn: Chuck Terhune Company: letra Jeen, ins P.O. #: \$01197406 OTHER State: Address: Fax #: Phone #: ACID/BASE: PRESERV ICE / COOL BILL TO OTHER Zip: 3/23/23 52 KUK 3/23/23 1245 3/23/23 1120 SIZ3123 1115 123/23 1030 DATE SAMPLING 1240 1250 TIME BOZIES 8 C ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exc remedy for any claim ver shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable ang whether tort, shall be limited to the paid by the client for the

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analyses. All claims including those for negligence and any other ions, loss of use, or loss of profits incurred by client, its subsidiaries

service. In no event shall Cardinal be liable for incidental or con ntal damages, including without limitation, business inter inder by Cardinal

Relinquished By: Relinquished By: Brody Lichtenburge ors arising out of or related to the per-Time; (60Ch Date: 3/25/23 Date: Received/By: Received By: All Results are emailed. Please provide Email address: REMARKS: Verbal Result: D Yes O No Add'l Phone #:

Sampler - UPS - Bus - Other:

Corrected Temp. °C Observed Temp. °C

U

U

Cool Intact Sample Condition

Thermometer ID #113 Correction Factor -0.6°C

24

hour

Cool Intact

6.0

CHECKED BY: (Initials)

Turnaround Time:

Standard

RD

Bacteria (only) Sample Condition

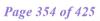
Observed Temp. °C Corrected Temp. °C

+

Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Time:

Delivered By: (Circle One)



101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

aboratories

ARDINA



March 27, 2023

CHUCK TERHUNE TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/24/23 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 21 (H231366-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	96.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: SSW - 1 (H231366-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: SSW - 2 (H231366-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: SSW - 3 (H231366-04)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	10.9	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: SSW - 4 (H231366-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.07	103	2.00	5.01	
Toluene*	<0.050	0.050	03/24/2023	ND	2.08	104	2.00	5.11	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	5.03	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.70	112	6.00	5.39	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: SSW - 5 (H231366-06)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	99.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 20 (H231366-07)

BTEX 8021B	mg	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	102	48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 17 (H231366-08)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: NSW - 2 (H231366-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: SSW - 6 (H231366-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/24/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/24/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/24/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 9 - A (H231366-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/25/2023	ND	172	85.8	200	8.81	
DRO >C10-C28*	<10.0	10.0	03/25/2023	ND	176	88.2	200	9.33	
EXT DRO >C28-C36	<10.0	10.0	03/25/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 12 - A (H231366-12)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	118 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 13 - A (H231366-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	108	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	71.9	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 1 - A (H231366-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	56.4	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	65.6	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 11 (H231366-15)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	65.9	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	70.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	<i>93.8</i>	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 12 (H231366-16)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/27/2023	ND	448	112	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/24/2023	Sampling Date:	03/24/2023
Reported:	03/27/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 13 (H231366-17)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2023	ND	2.15	107	2.00	11.6	
Toluene*	<0.050	0.050	03/25/2023	ND	2.16	108	2.00	11.6	
Ethylbenzene*	<0.050	0.050	03/25/2023	ND	2.25	112	2.00	12.2	
Total Xylenes*	<0.150	0.150	03/25/2023	ND	6.90	115	6.00	12.3	
Total BTEX	<0.300	0.300	03/25/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/27/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	191	95.5	200	1.68	
DRO >C10-C28*	39.9	10.0	03/27/2023	ND	185	92.4	200	3.11	
EXT DRO >C28-C36	43.1	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240 oratories RUIZ

Company Name: Yetru Tech I Inc.

(575) 393-2326 FAX (575) 393-2476

Project Manager:

haves terhune

Address: 1500

Lity West

Bouleverrot

SUTH 1000

Company: Tehra Techilas

CI-B

P.O. #: 76197406 BILL

10

ANALYSIS

REQUEST

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

city: Houston	State: TX	2h0LL :diz		Attn: Chuck	Texhume		0		
Phone #: 781-755-8965	Fax #:		Ad	Address:			50	-	
Project #: 2120 - HN - 02235	Project Owner:		City:			Bn	4		
2	Remedicition		State:	te: Zip:		-	m		
Project Location: Malyameer, NW	L'NNW		Pho	Phone #:		52	5		
Sampler Name: Brody Licht	ichtenburg		Fax #:	C.#		-	ł		
FOR LAB USE ONLY		R	MATRIX	PRESERV.	SAMPLING	by	e b		
Lab I.D. Sample I.D.	I.D.	(G)RAB.OR (C) # CONTAINERS GROUNDWATE WASTEWATER	SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL	DATE TIME	BTEX	TPH b Chlorid		
13-WSM		-		×	3/24/25 0800	XX	\times		
1-M95 Z		10	×	X 212	3/24/23 0805	XX	×		
3 5500- 2		1 10	X	X 3/2	3/24/230810	XX	×		
5- W35 h		GI	X	X 3/2	3/24/23 08 15	XX	X		
H-MSSS		10	X	X 3/24	0280 221412	XX	>		
6 55W -5		1 13	X	2/2 X	5180 51/12	XX	>		
7 FS-20		61	×	X 312	124123 0855	XX	X		
LI-54 8		61	×	X 3/2	24/23 0400	XX	X		
5-msn 6		61	×	X 3/2	24/23 8905	XX	X		
10 SSW-6		671	X	X 312	24/23 0910	XX	X		
PLEASE MOTE: Liability and Damages. Cardina's lability and client's exclusive remoty for any claim asing whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Candinal writin 30 deepe after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitidon, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	I client's exclusive remedy for an her cause whatsoever shall be d nsequental damages, including	iy claim arising whether t leemed waived unless m without limitation, busine	based in contract or tort, lade in writing and receiv vss interruptions, loss of i	shall be limited to the an ed by Cardinal within 30 use, or loss of profits incu	nount paid by the client for days after completion of the urred by client, its subsidiar	the le applicable les,		×	
Relinquished By: Date 124/23 Received By: Main and the Verbal Res	Date3/24/23	Received By:	and sourcess as		Verbal Results are	sult: Ve	Yes No A	verbal Result:	
Brody Lichtenberger Times 15	Time: 1515	111	the orall	All all			, riease provid	e Lillell audress.	
Relinquishéd By:	Date: Time:	Received By:		1 mar	REMARKS:				
Delivered By: (Circle One) (Sampler - UPS - Bus - Other: 0	Observed Temp. °C		Sample Condition Cool Intact	CHECKED BY:	Y: Turnaround Time: Thermometer ID #113	3	Standard Rush	Bacteria (only	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
FORM-000 R 3.3 07718/22	1	1.0	NO NO	4	Correction i	Correction Factor -0.6°C	Cr novi	Nc No	Corrected Temp, °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 6/6/2023 9:06:06 AM

	etra Jech, Inc.				AN	ANALYSIS REQUEST	UEST
	-5	2000	P.O. # POIL97406 Company: letre Ted	Techyluc	CI-B		
Ð	Fax #:				60		_
-HR-	35 Project Owner:	0	City:	5	45		
nua 2c	Remedicution	S	State: Zip:	IF	m	-	
Project Location: Makita mart	wr, NM	P	Phone #:	5	S		
Sampler Name: Krody Liu	Intrin beauca	Fa	Fax #:	Bo	30		_
FOR LAB USE ONLY	0	MATRIX	PRESERV. SAM	SAMPLING	e b		
Lab I.D. Samı	(G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	TIME BTGX by	TPH by Chloride		4
11 ESW-22	(B)	X	×	5 1035 X	X		
WSW-82		X	X 8/24/13	1040 × 1	XX		
14 15-1-10 14	13-A 1000 (2)	××	× 3/24/23	X Shot	××		
FS- 11	6	× ·	X 3/24/13		X		
17 5-13	5	X	CTHAIC X	1400 X			
e a r	Cardina's lability and client's exclusive remedy for any claim eggigence and any oblet cause whatsoever shall be deemed be for incidental or consequental damages, including when the tau and the second s	arising whether based in contract or tort, shall be limited to the amount paid by the client for the waved unless made in writing and received by Cardinal within 30 days after completion of the a limitation, business interruptions, loss of use, or loss of profils incurred by client, its subediaries, limitation, functional profiles and the sub-statement of the s	t, shall be limited to the amount pairwood by Cardinal within 30 days aft fuse, or loss of profits incurred by	id by the client for the er completion of the applicable client, its subsidiaries,			
Relinquished By: Readine Licentenberge	Date://24/23	Received By:	miller	Verbal Result: [All Results are ema	Yes No Add'I Phone #: emailed. Please provide Email address:	Add'l Phone #: de Email address:	
	Date: Time:	Received By:	Man)	REMARKS:			
Delivered By: (Circle One)							

Released to Imaging: 1/25/2024 2:25:45 PM

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March 28, 2023

CHUCK TERHUNE TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/27/23 15:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 14 - A (H231389-01)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2023	ND	185	92.3	200	27.3	
DRO >C10-C28*	<10.0	10.0	03/28/2023	ND	176	88.0	200	32.3	
EXT DRO >C28-C36	<10.0	10.0	03/28/2023	ND					
Surrogate: 1-Chlorooctane	91.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 14 - A (H231389-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/28/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	185	92.3	200	27.3	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	176	88.0	200	32.3	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 1 (H231389-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/28/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	185	92.3	200	27.3	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	176	88.0	200	32.3	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	107 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: NSW - 1 (H231389-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/28/2023	ND	416	104	400	7.41	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	185	92.3	200	27.3	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	176	88.0	200	32.3	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 2 (H231389-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/28/2023	ND	416	104	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	185	92.3	200	27.3	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	176	88.0	200	32.3	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					
Surrogate: 1-Chlorooctane	70.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

State: 1) 5-8965 Fax #: 1N-02255 Project Ow 4 2C Remedication July Cramer, NM July Lichtenberger -14-A W-14-A	C S/L Sample Condition Received By: City: City: City: State: City: Phone #: PRESERV. SAIN PRESERV.	Zip: SAMPLING SAMPLING SIZIC DATE TIME DATE TIME SIZICS 1015 SIZICS 1210 SIZICS 1210 SIZICS 1210 SIZICS 1450 SIZICS 1455 Turnaround Time: Sizic BIR ED BY: Turnaround Time: Sizic Turnaround Time: Sizic	TIME BTEX by 8021 B TIME BTEX by 8015 M TO20 X X BTEX by 8015 M TPH by 8015 M Chloride by Smyleotide envidence for expension rest a evidence for expension rest a evidence for evidence fo
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L'AL TLA	2222	1.1.1	
(Hulhhet	1000	Tech. Inc.	
icon hico	1007	- Intel	P
Houston	1	Trhune	
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	CONTAINERS ROUNDWATER ASTEWATER DIL L UDGE THER : CID/BASE: E / COOL	STEX by 1 PH by 8	-Nloride b
Z.		INF TYXX	
WSW-14-	×		
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5+5-2	×	VI21/25 JUSS X X X X	
PLEASE NOTE: Ltability and Damages. Cardinar's liability and client's exclusive remedy for analyses. All claims including those for negligence and any other cause whatsoever shall be	or any claim arising whether based in contract or tort, shall be limited to be deemed walved unless made in writing and received by Cardinal will	pplica	
service, lit no event strain container or neuror or involution or consequential variety or , move affiliates or successors arising out of or related to the performance of services hereunder by	by Cardinal, regardless of whether such claim is besed upon any of the	above stated reasons or otherwise.	
out of or related to the performance of services nereur	Received By:	Verbal Result:	
La La Time: Time:	1	All Results are emailed. Pic	ase provide Email address:
sci Annanna	_	REMARKS:	
V	Sample Condition	Turnaround Time:	
Dne) Observed Temp.	Cool Intact	Thermometer ID #113	Cool Intact



March 29, 2023

CHUCK TERHUNE TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND, TX 79701

RE: MCA 2C REMEDIATION

Enclosed are the results of analyses for samples received by the laboratory on 03/28/23 16:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: T - 7 (H231416-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.04	102	2.00	0.999	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.716	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.404	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.52	109	6.00	2.17	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	532	16.0	03/29/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.5	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	190	94.8	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					
Surrogate: 1-Chlorooctane	99.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: ESW - 9 - B (H231416-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.04	102	2.00	0.999	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.716	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.404	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.52	109	6.00	2.17	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/29/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.5	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	190	94.8	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 11 - A (H231416-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.04	102	2.00	0.999	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.716	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.404	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.52	109	6.00	2.17	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/29/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.5	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	190	94.8	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: FS - 11 - N (H231416-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.04	102	2.00	0.999	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.716	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.404	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.52	109	6.00	2.17	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/29/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.5	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	190	94.8	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TETRA TECH CHUCK TERHUNE 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received:	03/28/2023	Sampling Date:	03/28/2023
Reported:	03/29/2023	Sampling Type:	Soil
Project Name:	MCA 2C REMEDIATION	Sampling Condition:	Cool & Intact
Project Number:	212C - HN - 02235	Sample Received By:	Tamara Oldaker
Project Location:	MALJAMAR, NM		

Sample ID: WSW - 13 - B (H231416-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2023	ND	2.04	102	2.00	0.999	
Toluene*	<0.050	0.050	03/29/2023	ND	2.06	103	2.00	0.716	
Ethylbenzene*	<0.050	0.050	03/29/2023	ND	2.14	107	2.00	0.404	
Total Xylenes*	<0.150	0.150	03/29/2023	ND	6.52	109	6.00	2.17	
Total BTEX	<0.300	0.300	03/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2023	ND	169	84.5	200	0.312	
DRO >C10-C28*	<10.0	10.0	03/29/2023	ND	190	94.8	200	3.29	
EXT DRO >C28-C36	<10.0	10.0	03/29/2023	ND					
Surrogate: 1-Chlorooctane	101 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Observed Temp. °C Sample Condition CHECKED BY: Turnaround Time: Standard Bacteria (or Sampler - UPS - Bus - Other: Corrected Temp. °C C Pres Yes Yes Yes Thermometer ID #113 Correction Factor -0.5°C CU No Yes Ye	Keiinquisned By: Date: Received By: Verbal Result: Yes No Add'l Phone #: Brody Lichtenberger Time://604 Time://604 Multiful fulleffe All Results are emailed. Please provide Email address: Relinquished By: Date: Date: Received By: Received By: Received By:	Damages, Cardina's liability and client's exclusive remedy for any those for negligence and any other cuuse whatsower shall be de final be liable for incidental or consequental damages, including w out of or related to the performance of services hereundar by Car	X X X Ohli (2)(2) X X 1 1 10 C C C C C	a (1) X 3/28/25	A 611 X X 3/28/23	ESW-9-B AII X X 3/28/25	1 × x 2/20/27	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : ACID/BASE: ICE / COOL OTHER : DATE ME BTEX by TPH by Chloride b	MATRIX PRESERV. SAMPLING	Project Location: Multice Mary NM Phone #:	Project #: 2126-HN-02235 Project Owner: City:	State: TX Zip: 77042 Attn: Chuck Terhune	Address: 1500 City West Bouldward Suite 1000 Company: Tetra Tech, Inc. 12	es Terhone P.O. #PO1197400	Company Name: Tetra Tech, Inc ANALYSIS F
× ×	□ No Add'I Phone #: Please provide Email address:		×	X	X		×					4-	B		ANALYSIS REQUEST

Site Remediation Closure Report Maverick Permian, LLC MCA 2C Injection Header Flange and Header East Line Releases Incident IDs: nRM1930950727 and nAPP2117456525

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May 16, 2023

APPENDIX E: PHOTOGRAPHIC DOCUMENTATION

Released to Imaging: 1/25/2024 2:25:45 PM

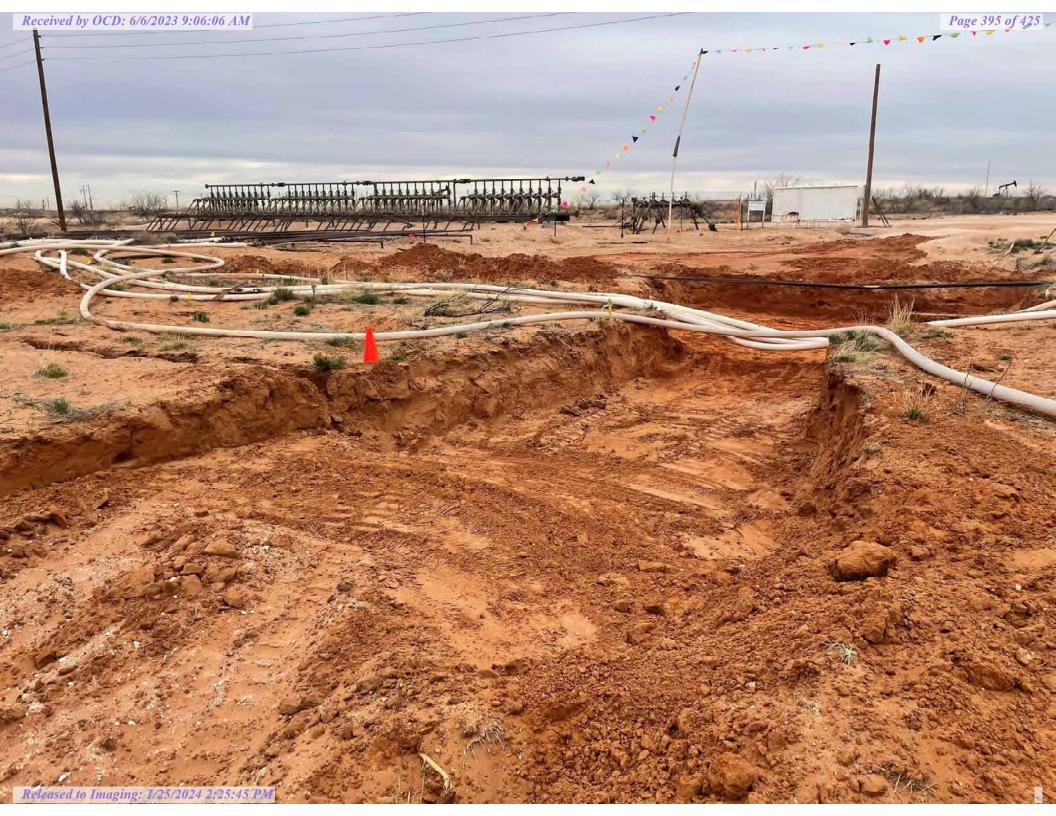


Released to Imaging: 1/25/2024 2:25:45 PM

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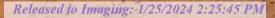




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Mar Will

























© 178°S (T) LAT: 32.803724 LON: -103.769394 ±4m ▲ 1210m

Site Remediation Tetra Tech Released to Imaging: 1/25/2024 2525/45 24 Maverick - MCA 2C Injection Flange Apr 06 2023, 14:31:21 MDT



© 124°SE (T) LAT: 32.803615 LON: -103.769497 ±4m ▲ 1210m

Site Remediation Tetra Tech Released to Imaging: 1/25/2024 2:25:45 PM Maverick - MCA 2C Injection Flange Apr 06 2023, 14:31:36 MDT



© 130°SE (T) LAT: 32.803502 LON: -103.769515 ±4m ▲ 1210m

Site Remediation Tetra Tech Released to Imaging: 1/25/2024 2:25:45 PM Maverick - MCA 2C Injection Flange Apr 06 2023, 14:31:50 MDT



© 35°NE (T) LAT: 32.803508 LON: -103.769513 ±4m ▲ 1209m

Site Remediation Tetra Tech Released to Imaging: 1/25/2024 2:25:45 P

Maverick - MCA 2C Injection Flange Apr 06 2023, 14:31:54 MDT



© 5°N (T) LAT: 32.803444 LON: -103.769340 ±4m ▲ 1210m

Site Remediation Tetra Tech Released to Imaging: 1/25/2024 2:25:45 PM Maverick - MCA 2C Injection Flange Apr 06 2023, 14:32:09 MDT



© 298°NW (T) LAT: 32.803451 LON: -103.769335 ±4m ▲ 1209m

Site Remediation Tetra Tech Released to Imaging: 1/25/2024 2:25:45 PM Maverick - MCA 2C Injection Flange Apr 06 2023, 14:32:14 MDT



© 154°SE (T) LAT: 32.803252 LON: -103.769268 ±4m ▲ 1209m

Site Remediation Tetra Tech Released to Imaging: 1/25/2024 2:23:45 PM Maverick - MCA 2C Injection Flange Apr 06 2023, 14:32:34 MDT



© 160°S (T) LAT: 32.803045 LON: -103.769120 ±4m ▲ 1210m

Site Remediation Tetra Tech Released to Imaging: 1/25/2024-2:25:45 PM Maverick - MCA 2C Injection Flange Apr 06 2023, 14:32:53 MDT



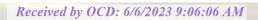
© 333°NW (T) LAT: 32.802506 LON: -103.768993 ±4m ▲ 1208m

Site Remediation Tetra Tech Released to Imaging: 1/25/2024 2:25:45 PM Maverick - MCA 2C Injection Flange Apr 06 2023, 14:33:37 MDT



© 333°NW (T) LAT: 32.802511 LON: -103.768997 ±4m ▲ 1208m

Site Remediation Tetra Tech Released to Imaging: 1/25/2024 2:25:45 PM Maverick - MCA 2C Injection Flange Apr 06 2023, 14:33:41 MDT



Released to Imaging: 1/25/2024 2:25:45 Pl

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© 301°NW (T) LAT: 32.802296 LON: -103.769037 ±4m ▲ 1207m

Site Remediation Tetra Tech Maverick - MCA 2C Injection Flange Apr 06 2023, 14:34:08 MDT



© 301°NW (T) LAT: 32.802292 LON: -103.769032 ±4m ▲ 1206m

Site Remediation Tetra Tech Released to Imaging: 1/25/2024 2:25:45 PM Maverick - MCA 2C Injection Flange Apr 06 2023, 14:34:13 MDT



© 15°N (T) LAT: 32.802385 LON: -103.769129 ±4m ▲ 1206m

Site Remediation Tetra Tech Maverick - MCA 2C Injection Flange Apr 06 2023, 14:34:29 MDT Site Remediation Closure Report Maverick Permian, LLC MCA 2C Injection Header Flange and Header East Line Releases Incident IDs: nRM1930950727 and nAPP2117456525

.

May 16, 2023

APPENDIX F: NMSLO SEED MIXTURE DETAILS

Released to Imaging: 1/25/2024 2:25:45 PM

NMSLO Seed Mix

Sandy (S)

SANDY (S) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	2.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Black grama	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	4.0	S
Plains bristlegrass	VNS, Southern	2.0	D
Forbs:	·····		2
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
Shrubs:		6	B
Fourwing Saltbush	VNS, Southern	1.0	F
	Total PLS/act	re 16.0	8

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

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



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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator: Maverick Permian LLC	OGRID: 331199	
1000 Main Street, Suite 2900	Action Number:	
Houston, TX 77002	224315	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	
CONDITIONS		

Created By Condition scwells None

CONDITIONS

Action 224315

Condition Date 1/25/2024

Released to Imaging: 1/25/2024 2:25:45 PM