Site Characterization Report and Remediation Workplan

May 12, 2020

Millman Station
Crude Oil Release
NRM2002952961

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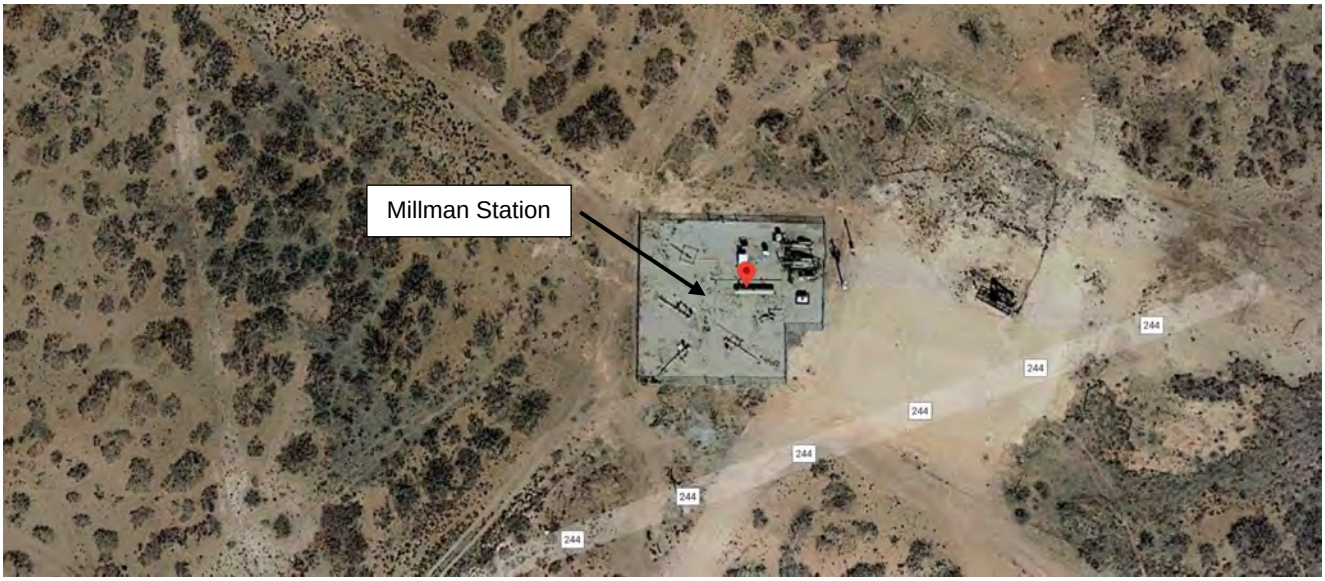

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1.0 Introduction

TRC Environmental Corporation (TRC), on behalf of Holly Energy Partners – Operating, L.P. (HEP), has prepared this *Site Characterization Report and Remediation Workplan* for the crude oil release at Millman Station (Release Site). On November 13, 2019, a release was discovered on the surge tank at Millman Station located approximately 20.5 miles southeast of Artesia, Eddy County, New Mexico. The global positioning system (GPS) coordinates for the Release Site are 32.66451104, -104.1267756. The property surface rights are owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO). The Release Site and surrounding area are used for pastureland and oil and gas exploration and production activities. The location of the Release Site is depicted on Figure 1.

2.0 Background

The November 2019 release was attributed to a rupture in the surge tank, caused by back pressure in a pipe. Verbal notification of the release was provided to the NMOCD on November 13, 2019. Due to technical issues with the NMOCD reporting portal, HEP was unable to access the portal until the NMOCD Form C-141 (Release Notification Report) was submitted on December 18, 2019. A copy of the Release Notification and Corrective Action Form (Form C-141) is included as Appendix A. Approximately 340 barrels (bbls) of crude oil were reported to have been released. A vacuum truck was dispatched in response to the release, and approximately 275 bbls of crude oil were recovered during initial response activities. The impacted footprint appears to be approximately 34,000 square feet. Photographic documentation of the Release Site is provided in Appendix B. The NMOCD assigned tracking number NRM2002952961 to the release.

This *Site Characterization Report and Remediation Workplan* was due within 90 days of reporting the release (i.e., by February 13, 2020) in accordance with 19.15.29.11 New Mexico Administrative Code (NMAC). On February 13, 2020, HEP requested and was granted a deadline extension of three (3) months by the NMOCD for a deadline of May 13, 2020.

3.0 NMOCD Closure Criteria

Cleanup standards for crude oil spills are provided in 19.15.29 NMAC. The cleanup standards (described in the rule as “Closure Criteria”) are based primarily on depth to groundwater but are also based on other criteria. Three different Closure Criteria are provided in the rule. The most stringent apply to sites where groundwater is found within 50 feet of the ground surface or if the release occurred within one of the following areas:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.

- Within a 100-year floodplain.

TRC reviewed available information to determine the Closure Criteria for the Site. The findings of this evaluation are summarized below.

3.1 Groundwater Evaluation

Review of the New Mexico Office of the State Engineer (NMOSE) records indicated one water well is located within 1.5 miles of the Release Site. As shown on the table below, the recorded depth to groundwater is 150 feet below ground surface (bgs). The location of the water well relative to the Release Site is depicted on Figure 2.

Nearby Water Well

Well ID	Location from Release Site	Owner	Use	Well Depth and Depth to Water (feet bgs)
CP-00646	1.05 miles to northeast	Unknown	Unknown	199 feet/150 feet

3.2 Surface Features and Other Development

TRC reviewed recent aerial photographs, topographic maps, the NMOSE Point of Discharge (POD) GIS website, and information available from the Eddy County, New Mexico Central Appraisal District website. As shown on Figure 2, the Site is **not** located:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
    - No watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the aerial photography (Figure 2) or appear on the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
    - The topographic map, aerial photography, and wetland/floodplain maps (Figures 1, 2, and 3, respectively) indicate there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
    - The aerial photography (Figure 2) and information available from the Eddy County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
    - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by TRC.
- Within 1,000 feet of any fresh water well or spring.
    - No fresh water wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by TRC.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.

- Based on the property and other records review by TRC, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.

- Within the area overlying a subsurface mine
  - Based on the property and other records review by TRC, the Site is not within the area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within the "medium karst potential" area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is located outside of a 100-year floodplain. Figures 3 and 4 depict the FEMA floodplain and wetlands information and the karst potential data, respectively.

3.4 Closure Criteria Currently Assumed Applicable to the Site

The Closure Criteria applicable to the Site will be based on the elevated karst potential of the Release Site, which dictates the most stringent regulatory guidelines typically associated with groundwater depths of less than fifty (50) feet bgs. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

Constituent of Concern		Closure Criteria Based on Depth to Groundwater (mg/kg)		
		≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs
Chloride (EPA 300)		600	10,000	20,000
TPH (EPA 8015M)	GRO + DRO + MRO	100	2,500	2,500
	GRO + DRO	NA	1,000	1,000
Total BTEX (EPA 8021 or 8260)		50	50	50
Benzene (EPA 8021 or 8260)		10	10	10

Notes: NA = not applicable
bgs = below ground surface
mg/kg = milligrams per kilogram
GRO = gasoline range organics
DRO = diesel range organics
MRO = motor oil range organics
TPH = total petroleum hydrocarbons
BTEX = benzene, toluene, ethylbenzene, and total xylenes
Green highlighted cells denote applicable Closure Criteria.

4.0 Site Assessment/Characterization Results

As per 19.15.29.11 NMAC, a Site Characterization Report will have the components described in Sections 4.1 through 4.5 of this document.

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, trench and soil sample locations, and known subsurface features such as utilities is provided as Figure 5.

4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown. During investigation activities, a maximum depth of 14 feet bgs was reached, at which groundwater was not encountered. A review of the NMOSE water well records indicates the depth to groundwater at the nearest well with known depth to water information (CP 00646, located 1.05 miles northeast of the Site) is 150 feet bgs.

Surface soils beneath the Release Site consist of fine sandy loams of the Simona and Wink fine sandy loams, which typically are approximately two (2) to five (5) feet thick. Holocene to upper Pleistocene alluvium underlies the surface soils. The alluvium is underlain by eolian deposits of Holocene to middle Pleistocene age. Under the eolian deposits are older alluvial deposits of upland plains and piedmont areas, and calcic soils and eolian cover sediments of the High Plains region, which were deposited during the middle to lower Pleistocene. Geologic formations in the area generally dip to the southeast.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 2. There are no known water sources, including wells, springs, or other sources of fresh water extraction, within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Release Site.

4.5 Soil Characteristics

4.5.1 Summary of December 2019 and March 2020 Investigation and Soil Sampling

Prior to initial investigation activities, HEP conducted limited soil removal by scraping the upper 6 inches of soil in the southeast portion of the release area as an initial response activity (see Figure 5). Soil removed during this activity was staged on plastic sheeting pending further waste management activities.

From December 10 to 12, 2019, initial investigation activities were conducted to determine the nature and extent of soil impacts associated with the November 2019 crude oil release. Lateral delineation of impacts associated with the November 2019 release was based on visual observation of the surface extent of the crude oil. To determine the vertical extent of impacts, a total of 10 trenches (TT-1 through TT-10) were advanced across the surface extent of the release area using a backhoe, and five soil borings (AH-1 through AH-5) were advanced within the fenced area/station boundary of the surge tank utilizing a hand auger.

The total depth of the trenches and hand auger borings ranged from 5 feet bgs to 12 feet bgs. A hard caliche layer was encountered at approximately 10 to 11 feet bgs, which caused refusal for both the backhoe and hand auger. Lithology and field observations of hydrocarbon impacts, including

hydrocarbon odor, staining, and photo-ionization detector (PID) readings were recorded every 1 vertical foot in each trench and boring. The general lithology of the Release Site includes sand with clay in the upper six (6) to eight (8) feet bgs, followed by sand with clay and angular gravel to a depth of approximately 10 to 11 feet bgs. At 10 to 11 feet bgs, a hard white caliche layer was encountered. The trench and hand auger locations are depicted on Figure 5.

Discrete soil samples were collected from the trenches either by hand using a shovel or from the backhoe bucket if the depth of the test trench did not allow for safe sampling via shovel. Non-dedicated sampling equipment was decontaminated between each sampling location. Soil was collected from the surface, and at 1-foot intervals bgs, from each trench and boring until PID results indicated hydrocarbon concentrations were reduced, refusal was encountered, or the full extent of the backhoe was reached.

Soil samples were selected for laboratory analysis from the 0- to 1-foot interval which exhibited field evidence of likely maximum potential chemical of concern (COC) concentrations (e.g., PID readings, petroleum hydrocarbon staining), from the shallowest sample with reduced PID readings to assess vertical delineation, and from the bottom of each trench or boring. Soil samples were submitted to DHL Analytical in Round Rock, Texas, for laboratory analysis of TPH by Environmental Protection Agency (EPA) Method 8015, BTEX by EPA Method SW8260, and Chloride by EPA Method SW9056. In addition, a composite sample was collected from the stockpiled soil staged from initial response actions and analyzed for waste characterization parameters. The locations of the trenches and auger holes are depicted in Figure 5. The sample depths and analytical results for the soil samples are provided in Table 1. The trench/auger logs with PID readings are provided as Appendix C. Laboratory analytical results are provided in Appendix D.

The results of the December 2019 sampling event indicated that further investigation was required to complete vertical delineation of TPH at trench TT-1 and augerholes AH-1, AH-3, AH-4, and AH-5. Therefore, additional investigation was performed on March 31, 2020, using a direct push technology (DPT) drilling rig to facilitate collection of soil samples at deeper intervals for vertical delineation of TPH. Of the five aforementioned locations, trench TT-1 and augerhole AH-3 were accessible to the drilling rig but augerholes AH-1, AH-4, and AH-5 were not accessible to the drilling rig due to the presence of multiple aboveground pipes within the fenced area. Boring BH-1 was advanced within approximately 5 feet of trench TT-1, and boring BH-3 was advanced within approximately 5 feet of augerhole AH-3. Samples were screened and selected for laboratory analysis as described above. Although access limitations prevented further sampling within the fenced area at augerholes AH-1, AH-4, and AH-5, the sampling data from location AH-3/BH-3 appears sufficient to provide vertical delineation of soil impacts within the fenced area where active operations occur.

Following investigation and soil sampling activities, the trenches, auger holes and soil borings were backfilled with the originally excavated material and the site was returned to original grade.

4.5.2 Summary of December 2019 and March 2020 Analytical Results

Based on the analytical results, concentrations of benzene, BTEX, and TPH in soil exceeded Closure Criteria at multiple locations. A brief summary of the soil analytical results for each parameter is discussed below. Soils with benzene, BTEX, and TPH exceedances will be addressed in accordance with the Remediation Workplan discussed in Section 5.0.

Benzene

- Benzene concentrations exceeded the Closure Criteria at four locations, trenches TT-6 and TT-7 and augerholes AH-4 and AH-5.
- The exceedances at trenches TT-6 and TT-7 and augerhole AH-4 were detected in the surface samples collected from 0 to 1 foot bgs, and benzene was not detected in deeper samples at these locations to demonstrate vertical delineation. The benzene exceedance at augerhole AH-5

was detected at a depth of 5 feet bgs, but vertical delineation was achieved in a deeper sample collected at 11.5 feet bgs.

BTEX

- BTEX concentrations exceeded the Closure Criteria at nine locations: trenches TT-2, TT-5, TT-6, TT-7, and TT-9; and augerholes AH-1, AH-2, AH-3 and AH-4.
- The BTEX exceedances were detected in the surface samples collected from 0 to 1 foot bgs. BTEX concentrations were either detected below the Closure Criteria or not detected in deeper samples at these locations to demonstrate vertical delineation.

TPH

- TPH concentrations exceeded the Closure Criteria in one or more samples collected from each sampling location except for trench TT-8 where no TPH exceedances were detected.
- The highest TPH concentrations were observed in the samples collected from the 0 to 1 foot bgs interval, as expected based on a surface release (the only exceptions were trench TT-1 and augerhole AH-5).
- TPH concentrations decreased with depth at all sampling locations with the exception of augerhole AH-5, which was terminated at 11.5 feet bgs due to hand auger refusal. Additional sampling at depth utilizing the DPT drilling rig could not be performed due to accessibility issues.
- TPH concentrations were vertically delineated at all sampling locations except trench and boring pair TT-1/BH-1 and augerholes AH-1, AH-4 and AH-5. Vertical delineation in location AH-3/BH-3 was achieved at approximately 13 feet bgs. Based on this result, an approximate depth of 15 feet bgs will be used to estimate the vertical limit of impacts within the fenced area of active operations (including locations AH-1, AH-4 and AH-5). Vertical delineation at the TT-1/BH-1 location will be determined during the proposed remediation activities discussed in Section 5.0.

Chloride concentrations were detected at seven locations above the Closure Criteria but are likely not associated with the crude oil release, with the possible exception of location AH-1 adjacent to the release. Chloride concentrations are below NMOCD regulatory guidelines in every surface soil sample (0 to 1 feet bgs) where TPH concentrations are elevated with the exception of AH-1 where chloride was detected at 935 mg/kg and TT-8 where chloride was detected at 1,650 mg/kg and TPH was not detected. All other chloride exceedances occur at depth with no corresponding shallow chloride exceedance. The low-level exceedance of chlorides (935 mg/kg) in the 0 to 1 foot bgs sample at AH-1 (near the release point) indicates that, while a low concentration of chlorides in the surface sample may be attributed to the release, it is unlikely to cause chloride concentrations higher than 935 mg/kg at TT-2, TT-3, TT-7 and TT-8 that are located beyond the release location, particularly at depth. In addition, sample locations AH-2, AH-3/BH-3, AH-4, AH-5 and TT-1/BH-1 had chloride concentrations below the Closure Criteria and these locations provide lateral delineation between the release point and the chloride exceedances at trench samples TT-2, TT-3, TT-4, TT-7, TT-8 and TT-9; in other words, the data suggest chlorides did not migrate from the release to these six trench sample locations. These six trench samples reporting chloride concentration exceedances are located near third-party saltwater injection lines, which constitute a more likely source of elevated chloride concentrations in soil than the HEP crude oil release in November 2019. As the presence of chloride in soil at the Release Site is not attributed to this release, with the possible exception of location AH-1, chlorides will not be addressed in the proposed Remediation Workplan.

4.5.3 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in work orders 19121261, 19121271, 19121502, and 20040231 generated by DHL Laboratory in Round Rock, Texas, was reviewed to ensure that reported analytical results met data

quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes were defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of contamination at the Site. The laboratory analytical results are provided as Appendix D.

5.0 Proposed Remediation Workplan

5.1 Proposed Remedial Activities

Impacts above NMOCD Closure Criteria for benzene, BTEX, and TPH were documented in soil at the following sample locations: trenches TT-1 through TT-7, TT-9, and TT-10; augerholes AH-1 through AH-5; and, borings BH-1 (adjacent to trench TT-1) and BH-3 (adjacent to augerhole AH-3). Following approval of this workplan by the NMOCD, remediation activities will begin. Soils outside of the fenced area of the active facility with benzene, BTEX, and TPH concentrations above the Closure Criteria will be excavated and transported under manifest to a NMOCD-approved disposal facility. A request to defer remedial activities within the fenced area/station boundary until time of abandonment (TOA) is described in Section 5.2.

Excavation activities will extend to the margins of the affected area outside the fenced area/station boundary based on surface staining and analytical data exceeding the Closure Criteria. The excavation will terminate laterally at the fence line/station boundary on the west, south, and east sides of the active facility. In the remaining directions, the excavation will be extended laterally and vertically until PID readings and visual and olfactory evidence indicate COCs are likely below Closure Criteria, at which point confirmation samples will be collected for laboratory analysis. Confirmation soil samples will be collected from the base and sidewalls of the excavation to confirm that the extent of the impacts in exceedance of the Closure Criteria were removed. Pursuant to 19.15.29.12(D) NMAC, confirmation samples will consist of five-point composite samples, and discrete grab samples will be collected from any wet or discolored areas. Due to the large footprint of the Release Site, HEP requests a variance from the one soil sample per 200 square foot requirement for confirmation sampling. HEP requests composite confirmation sample collection be performed for each 1,000 square feet of excavation floor and each 100 linear feet of excavation sidewall. Each confirmation sample will be analyzed for TPH by EPA SW-846 Method 8015M and BTEX by EPA SW-846 Method 8021B. Excavation outside the fenced area/station boundary will continue until confirmation sample results indicate COC concentrations are below Closure Criteria. Based on the site characterization results, excavation depths are expected to range from 1.5 to 7.5 feet bgs, and an estimated 1,250 cubic yards of soil will be excavated for disposal. Due to the proximity of the TT-1/BH-1 location to the fence line/station boundary, the excavation may be terminated before vertical delineation is achieved if the depth of the excavation could compromise the equipment within the active facility. In this scenario, excavation of the remaining impacted soil in the area of TT-1/BH-1 will be deferred until time of abandonment of the facility. This scenario may be applied to other excavation locations along the west, south and east fence line if the excavation depth could compromise the equipment within the active facility.

Upon confirmation that benzene, BTEX, and TPH concentrations in all composite and grab sample locations are below the Closure Criteria, the excavation will be backfilled to grade with non-impacted similar material. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

HEP requests a remediation schedule of 150 days from the date of NMOCD approval of this Remediation Workplan to complete the remediation activities and submit a *Remediation Summary and Closure Report* for NMOCD and NMSLO approval. The closure report will summarize remedial activities and confirmation sampling results, and will include the final Form C-141.

5.2 Requested Deferral until Time of Abandonment (TOA) of Millman Station Facility

Millman Station is an active facility with equipment including pumps and aboveground pipes. Remediation in this fenced area is not feasible during active operations as it poses a risk to worker/infrastructure safety and has an elevated risk for an additional release when working around the active infrastructure. Impacts above the NMOCD Closure Criteria have been documented in sample locations AH-1 through AH-5, which are located within the active facility. These augerholes were advanced until mechanical refusal, and additional delineation was performed utilizing a drill rig. However, the fencing and aboveground pipes prevented access to augerholes AH-1, AH-4, and AH-5 locations for further sampling. Indications of vertical delineation under the facility was provided at augerhole AH-3/boring BH-3, which was the only location accessible to a drill rig within the fenced area. HEP proposes utilization of data from soil sample location AH-3/BH-3 as indication of vertical delineation of soil impacts to the Closure Criteria at an approximate depth of 15 feet underlying the facility.

Because a portion of the impacted soil is located under and around active production equipment within the fenced area of the facility, HEP requests deferral of remedial activities inside the fenced area of the facility until TOA in accordance with 19.15.29.12(C)(2) NMAC. As mentioned above, impacted soil in this area has been vertically delineated, and there is not an imminent risk to human health, the environment, or groundwater (estimated depth to groundwater is 150 feet bgs). HEP proposes to apply MicroBlaze to impacted surface soils within the fenced area to promote natural attenuation of TPH and BTEX concentrations prior to covering the impacted area with clean caliche. HEP will perform final remediation and reclamation of the fenced area in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the facility is no longer used for production activities.

6.0 Distribution

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TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
HOLLY ENERGY PARTNERS - OPERATING, L.P.
Millman Station Crude Oil Release
NMOCD Tracking No.: NRM2002952961

Sample ID	Sample Date	Sample Depth (feet)	Proposed Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria				-	-	-	**100**	**10**	-	-	-	**50**	**600**
TT-1 @ 0-1'	12/10/19	0-1	Excavate	249	1,100	266	**1,615**	0.616	5.76	1.82	4.55	12.75	16.9
TT-1 @ 3'	12/10/19	3	Excavate	38.8	8,270	2,440	**10,748.8**	<0.0504	0.272	0.0600	0.197	0.5290	26.4
TT-1 @ 5'	12/10/19	5	Excavate	7.11	1,670	708	**2,385.11**	<0.0493	<0.0493	<0.0493	<0.0493	<0.0493	28.0
BH-1 @ 6'	3/20/20	6	Excavate	<1.99	722	756	**1,478**	-	-	-	-	-	-
BH-1 @ 7'	3/20/20	7	Excavate	<2.31	1,180	776	**1,956**	-	-	-	-	-	-
TT-2 @ 0-1'	12/10/19	0-1	Excavate	1,280	4,350	375	**6,005**	1.99	34.1	14.0	53.6	**103.69**	440
TT-2 @ 6'	12/10/19	6	In-Situ	<1.99	3.34	<3.15	3.34	<0.0498	<0.0498	<0.0498	<0.0498	<0.0498	**1,600**
TT-2 @ 8'	12/10/19	8	In-Situ	<2.18	3.81	<3.54	3.81	<0.0546	<0.0546	<0.0546	<0.0546	<0.0546	**1,170**
TT-3 @ 0-1'	12/10/19	0-1	Excavate	<1.64	78.7	25.4	**104.1**	<0.0392	<0.0392	<0.0392	<0.0392	<0.0392	98.2
TT-3 @ 5'	12/10/19	5	In-Situ	<2.13	4.26	<3.39	4.26	<0.0533	<0.0533	<0.0533	<0.0533	<0.0533	**1,180**
TT-4 @ 0-1'	12/10/19	0-1	Excavate	1,080	6,070	325	**7,475**	0.160	5.15	4.44	19.5	29.25	11.8
TT-4 @ 6'	12/10/19	6	In-Situ	<2.10	29.2	3.73	32.93	<0.0524	<0.0524	<0.0524	<0.0524	<0.0524	359
TT-4 @ 11'	12/10/19	11	In-Situ	<2.06	4.18	<3.20	4.18	<0.0514	<0.0514	<0.0514	<0.0514	<0.0514	**634**
TT-5 @ 0-1'	12/10/19	0-1	Excavate	2,470	4,990	<319	**7,460**	2.23	33.6	14.5	55.3	**105.63**	15.4
TT-5 @ 6'	12/10/19	6	In-Situ	<2.29	3.47	<3.23	3.47	<0.0573	<0.0573	<0.0573	<0.0573	<0.0573	167
TT-5 @ 11'	12/10/19	11	In-Situ	<2.33	3.76	<3.10	3.76	<0.0583	<0.0583	<0.0583	<0.0583	<0.0583	168
TT-6 @ 0-1'	12/10/19	0-1	Excavate	14,500	11,500	1,400	**27,400**	**107**	374	102	336	**919**	19.9
TT-6 @ 7'	12/10/19	7	In-Situ	<2.26	22.5	<2.99	22.5	<0.0566	<0.0566	<0.0566	<0.0566	<0.0566	140
TT-6 @ 12'	12/10/19	12	In-Situ	<1.91	<2.99	<2.99	<2.99	<0.0530	<0.0530	<0.0530	<0.0530	<0.0530	51.9
Dup-1	12/10/19	-	In-Situ	<1.90	<2.96	<2.96	<2.96	<0.0476	<0.0476	<0.0476	<0.0476	<0.0476	41.2
TT-7 @ 0-1'	12/10/19	0-1	Excavate	6,630	6,960	424	**14,014**	**10.3**	104	34.5	142	**290.8**	27.6
TT-7 @ 5'	12/10/19	5	In-Situ	<2.01	3.32	<3.02	3.32	<0.0503	<0.0503	<0.0503	<0.0503	<0.0503	**1,500**
TT-7 @ 12'	12/11/19	12	In-Situ	<2.79	3.86	<3.06	3.86	<0.0696	<0.0696	<0.0696	<0.0696	<0.0696	62.8
TT-8 @ 0-1'	12/11/19	0-1	In-Situ	<1.87	<3.05	<3.05	<3.05	<0.0468	<0.0468	<0.0468	<0.0468	<0.0468	**1,650**
Dup-2	12/11/19	-	-	<1.99	<3.13	<3.13	<3.13	<0.0497	<0.0497	<0.0497	<0.0497	<0.0497	**1,320**
TT-8 @ 7'	12/11/19	7	In-Situ	<2.15	<3.17	<3.17	<3.17	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	**1,720**
Dup-3	12/11/19	-	-	4.68	<3.15	<3.15	4.68	<0.0513	<0.0513	<0.0513	<0.0513	<0.0513	**1,790**
TT-8 @ 11'	12/11/19	11	In-Situ	<1.96	<3.12	<3.12	<3.12	<0.0489	<0.0489	<0.0489	<0.0489	<0.0489	**2,660**
TT-9 @ 0-1'	12/11/19	0-1	Excavate	1,420	1,260	125	**2,805**	3.48	72.0	8.16	30.3	**113.94**	21.1
TT-9 @ 4'	12/11/19	4	In-Situ	<2.22	<3.01	<3.01	<3.01	<0.0555	<0.0555	<0.0555	<0.0555	<0.0555	**672**
TT-9 @ 8'	12/11/19	8	In-Situ	<2.09	<3.07	<3.07	<3.07	<0.0522	<0.0522	<0.0522	<0.0522	<0.0522	109
TT-10 @ 0-1'	12/11/19	0-1	Excavate	749	1,020	103	**1,872**	1.65	13.3	4.65	18.7	38.30	22.5
TT-10 @ 7'	12/11/19	7	In-Situ	<2.18	<3.16	<3.16	<3.16	<0.0545	<0.0545	<0.0545	<0.0545	<0.0545	366
TT-10 @ 12'	12/11/19	12	In-Situ	<2.16	<3.19	<3.19	<3.19	<0.0541	<0.0541	<0.0541	<0.0541	<0.0541	497
AH-1 @ 0-1'	12/11/19	0-1	Defer	9,150	14,300	1,680	**25,130**	5.47	169	70.1	286	**530.57**	**935**
AH-1 @ 5'	12/11/19	5	Defer	45.6	386	217	**648.6**	0.0776	1.02	0.399	1.83	3.3266	41.1
AH-1 @ 12'	12/12/19	12	Defer	6.48	264	218	**488.48**	<0.0487	0.0828	<0.0487	0.235	0.3178	27.0
AH-2 @ 0-1'	12/11/19	0-1	Defer	5,870	12,900	1,720	**20,490**	0.242	98.0	45.6	181	**324.842**	185
AH-2 @ 5'	12/11/19	5	Defer	6.95	142	34.2	**183.15**	<0.0510	<0.0510	<0.0510	<0.0510	<0.0510	6.14
AH-2 @ 8.5'	12/12/19	8.5	In-Situ	<1.93	8.07	<3.24	8.07	<0.0483	<0.0483	<0.0483	<0.0483	<0.0483	5.42
Dup-5	12/12/19	-	-	7.22	10.7	<3.27	17.92	<0.0488	<0.0488	<0.0488	<0.0488	<0.0488	5.59
AH-3 @ 0-1'	12/11/19	0-1	Defer	8,270	18,200	2,140	**28,610**	9.82	166	59.0	230	**464.82**	113
AH-3 @ 5'	12/11/19	5	Defer	9.33	70.5	20.5	**100.33**	<0.0537	<0.0537	<0.0537	<0.0537	<0.0537	8.79
AH-3 @ 12'	12/12/19	12	Defer	2.41	130	28.7	**161.11**	<0.0502	<0.0502	<0.0502	<0.0502	<0.0502	20.4
BH-3 @ 13'	3/30/20	13	In-Situ	<2.24	3.78	<3.32	3.78	-	-	-	-	-	-
Duplicate	3/30/20	13	In-Situ	<2.25	5.16	<3.30	5.16	-	-	-	-	-	-
BH-3 @ 14'	3/30/20	14	In-Situ	<2.01	3.68	<3.46	3.68	-	-	-	-	-	-
AH-4 @ 0-1'	12/11/19	0-1	Defer	5,520	11,800	1,240	**18,560**	**15.8**	140	50.9	193	**399.7**	21.7
AH-4 @ 5'	12/11/19	5	Defer	4.12	15.1	<3.14	19.22	<0.0525	<0.0525	<0.0525	<0.0525	<0.0525	3.31
Dup-4	12/11/19	-	-	<1.96	7.48	<3.11	7.48	<0.0489	<0.0489	<0.0489	<0.0489	<0.0489	3.38
AH-4 @ 11.5'	12/12/19	11.5	Defer	37.4	280	<34.3	**317.4**	<0.0538	0.291	0.167	0.883	1.341	7.27
AH-5 @ 0-1'	12/11/19	0-1	Defer	58.9	15,400	2,160	**17,618.9**	<0.0488	0.0635	<0.0488	0.0757	0.1392	34.7
AH-5 @ 5'	12/11/19	5	Defer	1,850	13,100	1,580	**16,530**	**13.5**	0.515	12.5	13.6	40.115	8.66
AH-5 @ 11.5'	12/12/19	11.5	Defer	1,820	13,900	1,720	**17,440**	0.596	2.72	0.956	2.81	7.082	5.97
Stockpile	12/11/19	-	Remove	23.6	1,420	174	**1,617.6**	<0.0540	<0.0540	<0.0540	<0.0540	<0.0540	38.8

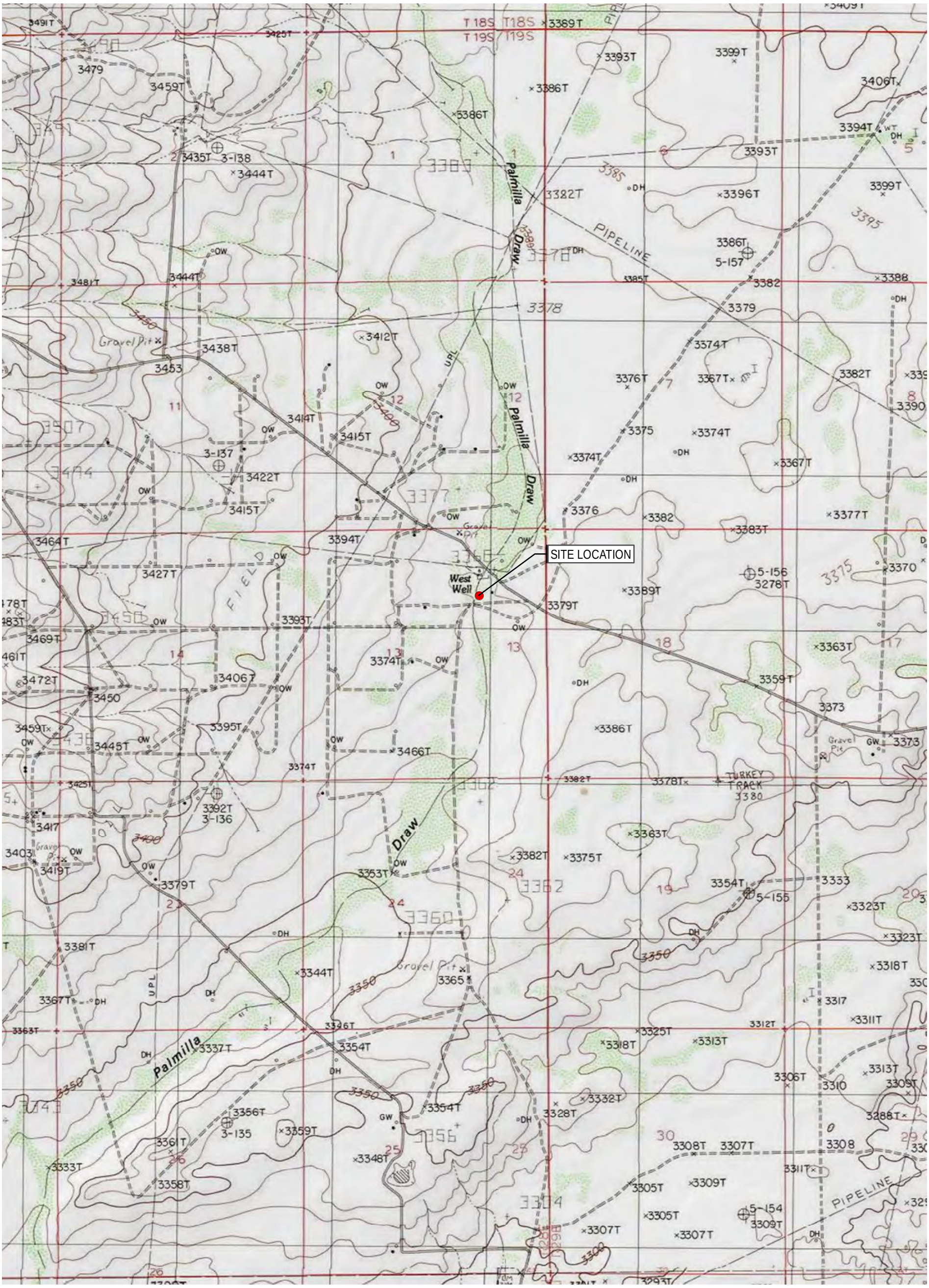
Notes:

1. GRO: Gasoline Range Organics
2. DRO: Diesel Range Organics
3. MRO: Motor Oil Range Organics
4. Bold indicates the COC was detected above the NMOCD Closure Criteria
5. Orange Highlight Indicates sampled location and interval will be excavated during remedial activities
6. Blue Highlight indicates sampled location and interval will be requested as deferred until Time of Abandonment (TOA) of Millman Station Facility
7. < indicates the COC was below the appropriate laboratory method/sample detection limit
8. Dup-1 was collected from the same location as TT-6 @ 12'
9. Dup-2 was collected from the same location as TT-8 @ 0-1'
10. Dup-3 was collected from the same location as TT-8 @ 7'
11. Dup-4 was collected from the same location as AH-4 @ 5'
12. Dup-5 was collected from the same location as AH-2 @ 8.5'
13. Duplicate was collected from the same location as BH-3 @ 13'

Plot Date: 4/21/2020, 15:58:30 PM by SRAY -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\371909_Millman\mxd\371909_1.mxd

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0

TRC - GIS



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES - ILLINOIS CAMP, NEW MEXICO (1985).

505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING L.P.
MILLMAN STATION CRUDE OIL RELEASE
EDDY COUNTY, NEW MEXICO

TITLE:
SITE LOCATION MAP

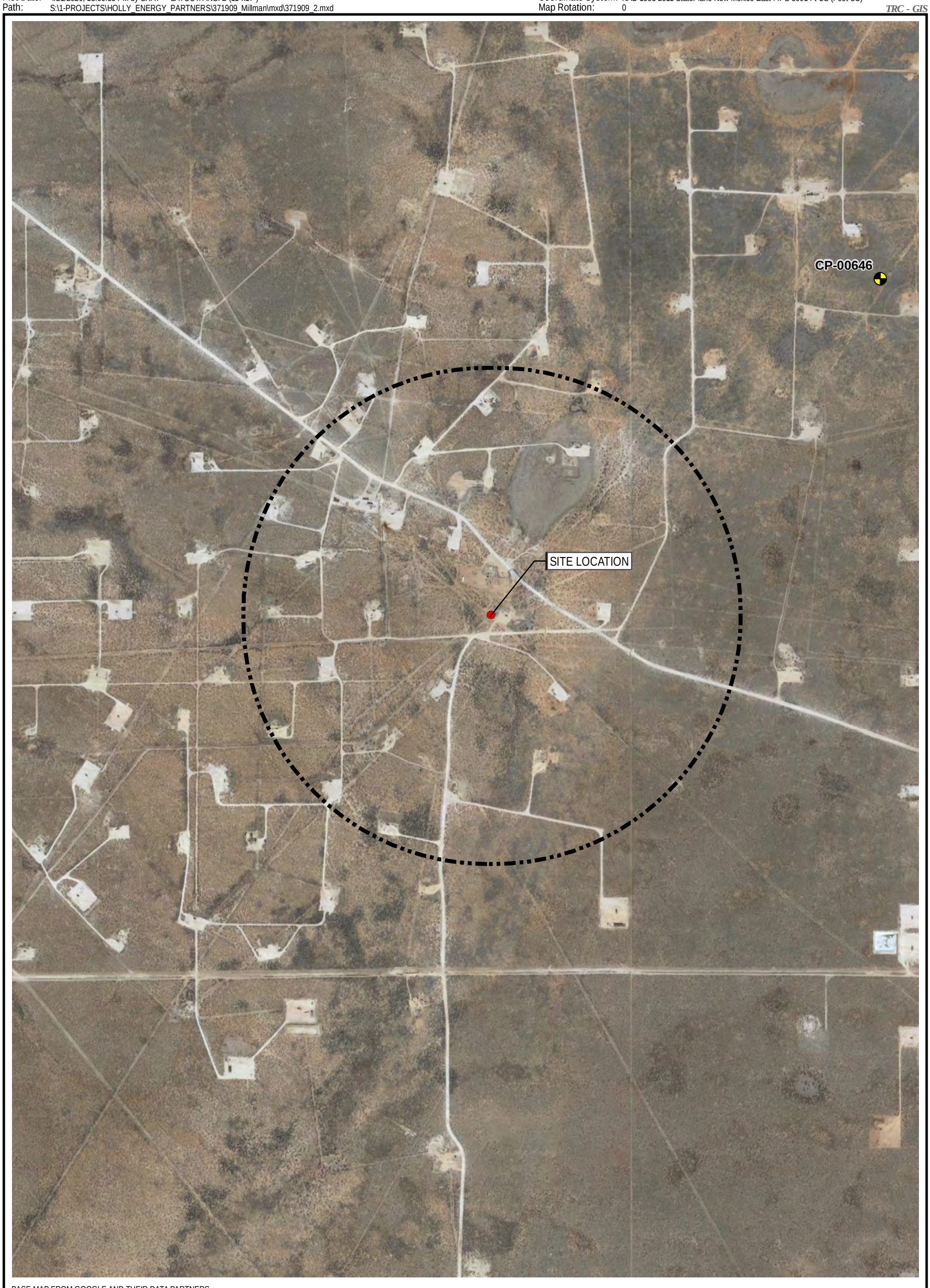
DRAWN BY:	S. RAY
CHECKED BY:	
APPROVED BY:	
DATE:	APRIL 2020
PROJ. NO.:	371909
FILE:	371909_1.mxd

FIGURE 1

Plot Date: 4/21/2020, 15:00:35 PM by SRAY -- LAYOUT: ANSI B (11"x17")
Path: S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\371909_Millman\mxd\371909_2.mxd

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0

TRC - GIS



BASE MAP FROM GOOGLE AND THEIR DATA PARTNERS.

LEGEND

Water Well

1/2 Mile Site Radius

0 500 1,000 FEET

1 " = 1,000 '

1:12,000

N

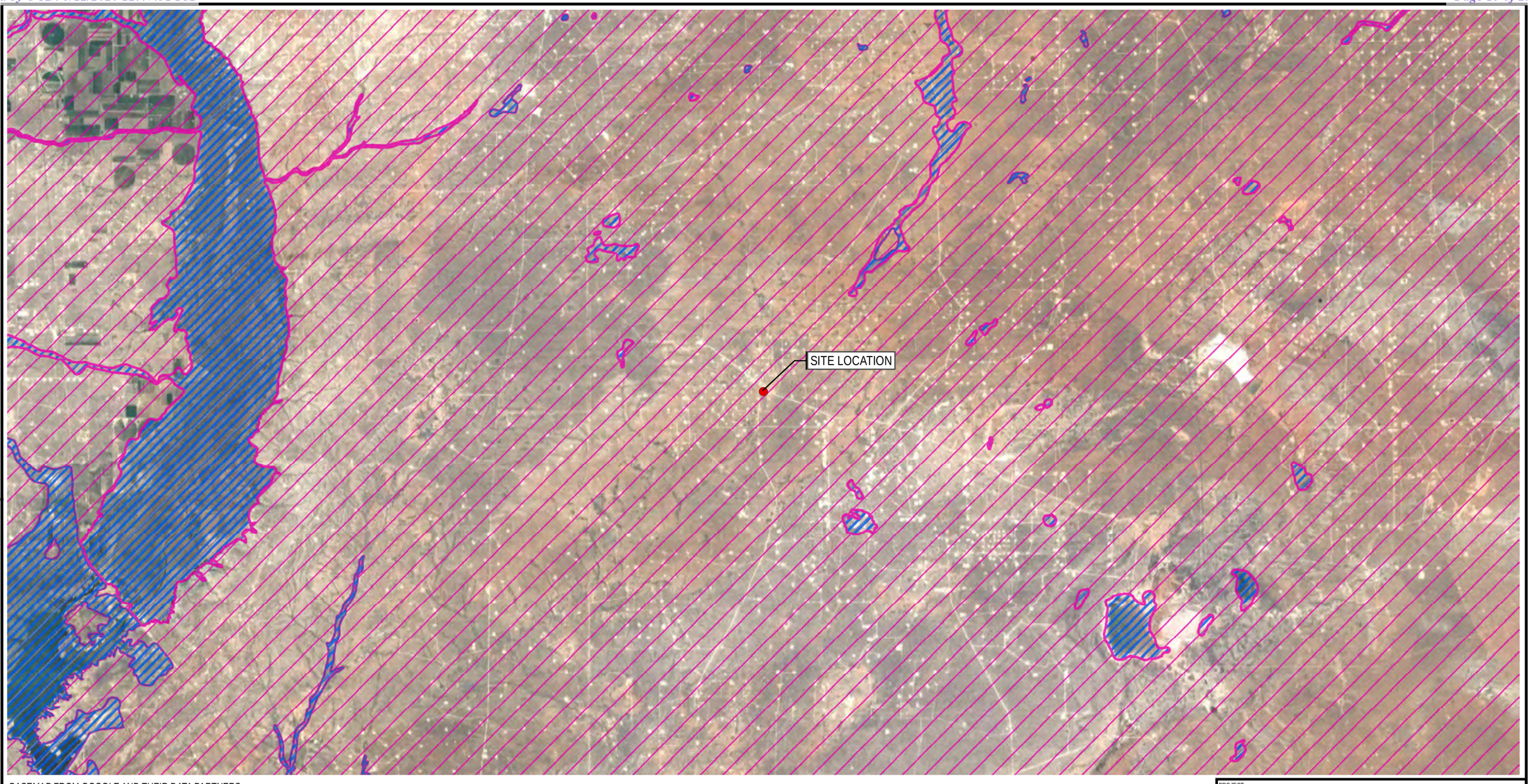
505 East Huntland Drive
Suite #250
Austin, TX 78752
Phone: 512.329.6080

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING L.P.
MILLMAN STATION CRUDE OIL RELEASE
EDDY COUNTY, NEW MEXICO

TITLE:
WELLHEAD PROTECTION AREA MAP

DRAWN BY:	S. RAY
CHECKED BY:	
APPROVED BY:	
DATE:	APRIL 2020
PROJ. NO.:	371909
FILE:	371909_2.mxd

FIGURE 2



BASEMAP FROM GOOGLE AND THEIR DATA PARTNERS.
FLOODPLAIN DATA FROM FEMA.

NOTE: THERE WERE NO WETLANDS IDENTIFIED WITHIN THE CURRENT EXTENT OF THIS FIGURE.

LEGEND

A; AE - AREA INSIDE 100 YEAR FLOODPLAIN

X - AREA INSIDE OF 500 YEAR FLOODPLAIN

0 2 4 Miles

1 " = 2 MILES
1:126,720

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING L.P.
MILLMAN STATION CRUDE OIL RELEASE
EDDY COUNTY, NEW MEXICO

TITLE:
FLOODPLAIN MAP

DRAWN BY:	S. RAY	PROJ NO.:	371909
CHECKED BY:			
APPROVED BY:			**FIGURE 3**
DATE:	APRIL 2020		

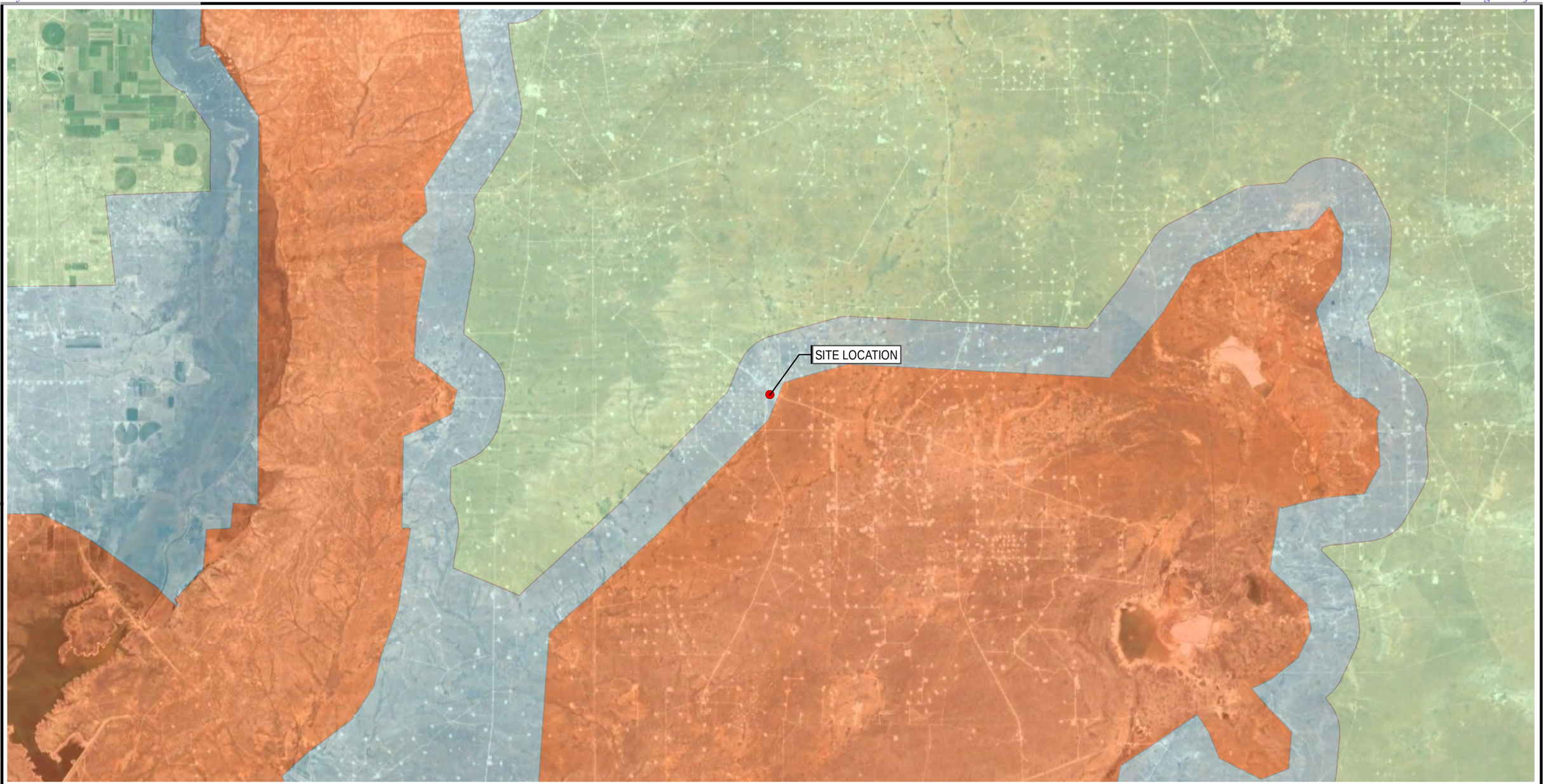
TRC
505 East Huntland Drive, Suite 250
Austin, TX 78752
Phone: 512.329.6080
www.trcsolutions.com

FILE NO.: 371909_3.mxd

Plot Date: 4/21/2020, 14:57:58 PM by SRAY -- LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\371909_Millman\mxd\371909_3.mxd

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0

TRC - GIS



BASEMAP FROM GOOGLE AND THEIR DATA PARTNERS.
KARST DATA FROM NEW MEXICO BUREAU OF LAND MANAGEMENT.

LEGEND

- LOW KARST POTENTIAL
- MEDIUM KARST POTENTIAL
- HIGH KARST POTENTIAL

N

0 2 4 Miles

1 " = 2 MILES
1:126,720

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING L.P.
MILLMAN STATION CRUDE OIL RELEASE
EDDY COUNTY, NEW MEXICO

TITLE:
KARST POTENTIAL MAP

DRAWN BY:	S. RAY	PROJ NO.:	371909
CHECKED BY:			
APPROVED BY:			
DATE:	APRIL 2020		

FIGURE 4

TRC

505 East Huntland Drive, Suite 250
Austin, TX 78752
Phone: 512.329.6080
www.trcsolutions.com

FILE NO.: 371909_4.mxd

Plot Date: 4/21/2020, 14:53:58 PM by SRAY -- LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\371909_Millman\mxd\371909_4.mxd

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0

TRC - GIS

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
AH-4 @ 0-1'	**15.8**	**399.7**	**18560**	21.7
AH-4 @ 5'	<0.0525	<0.0525	19.22	3.31
AH-4 @ 11.5'	<0.0538	1.341	**317.4**	7.27

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
AH-1 @ 0-1'	5.47	**530.57**	**25130**	**935**
AH-1 @ 5'	0.0776	3.3266	**648.6**	41.1
AH-1 @ 12'	<0.0487	0.3178	**488**	27.0

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
AH-5 @ 0-1'	<0.0488	0.1392	**17,618.9**	34.7
AH-5 @ 5'	**13.5**	40.115	**16,530**	8.66
AH-5 @ 11.5'	0.596	7.082	**17,440**	5.97

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
TT-9 @ 0-1'	3.48	**113.94**	**2,805**	21.1
TT-9 @ 4'	<0.0555	<0.0555	<3.01	**672**
TT-9 @ 8'	<0.0522	<0.0522	<3.07	109

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
TT-1 @ 0-1'	0.616	12.75	**1,615**	16.9
TT-1 @ 3'	<0.0504	0.5290	**10,748.8**	26.4
TT-1 @ 5'	<0.0493	<0.0493	**2,385.11**	28.0
BH-1 @ 6'	-	-	**1,478**	-
BH-1 @ 7'	-	-	**1,956**	-

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
TT-10 @ 0-1'	1.65	38.3	**1,872**	22.5
TT-10 @ 7'	<0.0545	<0.0545	<3.16	366
TT-10 @ 12'	<0.0541	<0.0541	<3.19	497

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
AH-3 @ 0-1'	9.82	**464.82**	**28,610**	113
AH-3 @ 5'	<0.0537	<0.0537	**100.33**	8.79
AH-3 @ 12'	<0.0502	<0.0502	**161.11**	20.4
BH-3 @ 13'	-	-	3.78	-
Duplicate	-	-	5.16	-
BH-3 @ 14'	-	-	3.68	-

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
AH-2 @ 0-1'	0.242	**324.842**	**20,490**	185
AH-2 @ 5'	<0.0510	<0.0510	**183.15**	6.14
AH-2 @ 8.5'	<0.0483	<0.0483	8.07	5.42
AH-2 @ 8.5' (DUP-5)	<0.0488	<0.0488	17.92	5.59

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
TT-2 @ 0-1'	1.99	**103.69**	**6,005**	440
TT-2 @ 6'	<0.0498	<0.0498	3.34	**1,600**
TT-2 @ 8'	<0.0546	<0.0546	3.81	**1,170**

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
TT-6 @ 0-1'	**107**	**919**	**27,400**	19.9
TT-6 @ 7'	<0.0566	<0.0566	22.5	140
TT-6 @ 12'	<0.0530	<0.0530	<2.99	51.9
TT-6 @ 12' (DUP-1)	<0.0476	<0.0476	<2.96	41.2

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
TT-3 @ 0-1'	<0.0392	<0.0392	**104.1**	98.2
TT-3 @ 5'	<0.0533	<0.0533	4.26	**1,180**

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
TT-8 @ 0-1'	<0.0468	<0.0468	<3.05	**1,650**
TT-8 @ 0-1' (DUP-2)	<0.0497	<0.0497	<3.13	**1,320**
TT-8 @ 7'	<0.0537	<0.0537	<3.17	**1,720**
TT-8 @ 7' (DUP-3)	<0.0513	<0.0513	4.68	**1,790**
TT-8 @ 11'	<0.0489	<0.0489	<3.12	**2,660**

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
TT-7 @ 0-1'	**10.3**	**290.8**	**14,014**	27.6
TT-7 @ 5'	<0.0503	<0.0503	3.32	**1,500**
TT-7 @ 12'	<0.0696	<0.0696	3.86	62.8

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
TT-5 @ 0-1'	2.23	**105.63**	**7,460**	15.4
TT-5 @ 6'	<0.0573	<0.0573	3.47	167
TT-5 @ 11'	<0.0583	<0.0583	3.76	168

Sample ID	Benzene (10 mg/kg)	Total BTEX (50 mg/kg)	Total TPH (100 mg/kg)	Chloride (600 mg/kg)
TT-4 @ 0-1'	0.160	29.25	**7,475**	11.8
TT-4 @ 6'	<0.0524	<0.0524	32.93	359
TT-4 @ 11'	<0.0514	<0.0514	4.18	**634**

LEGEND

- SOIL SAMPLE LOCATIONS
- RELEASE POINT (SURGE TANK)
- ELECTRICAL LINE
- HEP LINES
- SALTWATER INJECTION T LINE OPERATED BY STEPHENS & JOHNSON OPERATING
- SALTWATER INJECTION LINES OPERATING BY STEPHENS & JOHNSON OPERATING
- SURFACE RELEASE AREA
- STOCKPILED MATERIAL
- SCRAPED AREA
- FENCED AREA/STATION BOUNDARY

BASE MAP FROM GOOGLE AND THEIR DATA PARTNERS (3/12/2016).

NOTES:
1. Yellow highlight indicates the parameter was detected above the NMOCD Closure Criteria.
2. < indicates the parameter was below the appropriate laboratory method/sample detection limit.
3. Dup-1 was collected from the same location as TT-6 @ 12'.
4. Dup-2 was collected from the same location as TT-8 @ 0-1'.
5. Dup-3 was collected from the same location as TT-8 @ 7'.
6. Dup-4 was collected from the same location as AH-4 @ 5'.
7. Dup-5 was collected from the same location as AH-2 @ 8.5'.
8. Duplicate was collected from the same location as BH-3 @ 13'.

Sample ID	Benzene	Total BTEX	Total TPH	Chloride
NMOCD Closure Criteria	10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg

0 50 100 Feet
1 " = 50 '
1:600

PROJECT:
HOLLY ENERGY PARTNERS - OPERATING L.P.
MILLMAN STATION CRUDE OIL RELEASE
EDDY COUNTY, NEW MEXICO

TITLE:
SOIL SAMPLE ANALYTICAL RESULTS MAP

DRAWN BY:	S. RAY	PROJ NO.:	371909
CHECKED BY:			
APPROVED BY:			
DATE:	MAY 2020		

FIGURE 5

TRC
505 East Huntland Drive, Suite 250
Austin, TX 78752
Phone: 512.329.6080
www.trcsolutions.com

FILE NO.: 371909_5.mxd

Coordinate System: NAD 1983 2011 StatePlane New Mexico East FIPS 3001 Ft US (Foot US)
Map Rotation: 0
Plot Date: 5/7/2020, 15:40:38 PM by SRAY – LAYOUT: ANSI B (11"x17")
Path: S:\11-PROJECTS\HOLLY_ENERGY_PARTNERS\371909_Millman\mxd\371909_5.mxd

Appendix A: Release Notification and Corrective Action Form (NMOCD Form C-141)

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Holly Energy Partners	OGRID
Contact Name Melanie Nolan	Contact Telephone 214-605-8303
Contact email Melanie.Nolan@hollyenergy.com	Incident # *(assigned by OCD)*
Contact mailing address 1602 W Main St. Artesia, NM 88210	

Location of Release Source

Latitude 32.66451104
(NAD 83 in decimal degrees to 5 decimal places)

Longitude -104.1267756

Site Name Millman Station	Site Type Pump Station
Date Release Discovered 11/13/2019	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
G	13	19S	28E	Eddy

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) Approximately 340	Volume Recovered (bbls) 275
☐ 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
Back pressure on the pipeline causing the surge tank located on Millman Station to rupture. A valve was closed upstream that caused the backpressure.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? An unauthorized release exceeding 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Regulatory Manager – Charles Curl OCD Contact Given notification: Gilbert Cordero Notification was given on 11/13/2019 via phone	

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: Melanie Nolan Title: Environmental Specialist

Signature: Melanie Nolan Date: 11/26/2019

email: Melanie.Nolan@hollyenergy.com Telephone: 214-605-8303

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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: Melanie Nolan Title: Environmental Specialist

Signature: Melanie Nolan Digitally signed by Melanie Nolan DN: cn=Melanie Nolan, o, ou, e-mail=Melanie.nolan@hollyenergy.com, c=US Date: 2020.05.12 09:45:31 -06'00' Date: 5/12/2020

email: Melanie.Nolan@hollyenergy.com Telephone: 214-605-8303

OCD Only

Received by: Date:

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ Extents of contamination must be fully delineated.

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

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

Printed Name: Melanie Nolan Title: Environmental Specialist

Signature: Melanie Nolan Digitally signed by Melanie Nolan DN: cn=Melanie Nolan, o, ou, email=Melanie.nolan@hollyenergy.com, c=US Date: 2020.05.12 09:46:22 -06'00' Date: 5/12/2020

email: Melanie.Nolan@hollyenergy.com Telephone: 214-605-8303

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Appendix B: Photographic Documentation

Appendix B
Photographic Documentation

Photograph 1: Release area south of the facility, from west to east.

Photograph 2: Release area south of the facility, from south to north.

Photograph 3: Release area south of the facility, from southwest to northeast.

Photograph 4: Release area southeast of the facility, from northwest to southeast.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name/Address:	TRC
371909	Jared Stoffel	1 of 3	Holly Energy Partners – Operating L.P.	Millman Station	

Appendix B
Photographic Documentation

Photograph 5: Release area east of the facility, from south to north.

Photograph 6: Release area east of the stockpile, from northwest to southeast.

Photograph 7: Release area east of the stockpile, from southeast to northwest.

Photograph 8: Scraped area, from northwest to southeast.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name/Address:	
371909	Jared Stoffel	2 of 3	Holly Energy Partners – Operating L.P.	Millman Station	TRC

Appendix B
Photographic Documentation

Photograph 9: Area inside the facility adjacent to augerhole AH-2 location.

Photograph 10: Area inside the facility adjacent to augerhole AH-5 location (next to pumps).

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name/Address:	TRC
371909	Jared Stoffel	3 of 3	Holly Energy Partners – Operating L.P.	Millman Station	

Appendix C: Trench and Auger/Boring Logs

TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	**SOIL BORING ID:** TT-1	
PROJECT NUMBER: 371909	LOCATION: —	SHEET 1 OF 1
LOGGED BY: Jared Stoffel		SURFACE ELEV.: —
PROJECT LOCATION: Eddy County, NM	N: — E: —	DATE STARTED: 12/10/19
DRILLED BY: —	DRILLER NAME: —	DATE COMPLETED: 12/10/19

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		brown to black m. sand with clay, heavy hydrocarbon staining & odor	0-1' sample
				201.3			
						brown to red m. sand with clay, light hydrocarbon odor, no staining	
				1686	2.5		3' sample
				56.3			
				22.8	5.0		5' sample
				10.1			
						terminated due to PID readings	
					7.5		
					10.0		
					12.5		
					15.0		
					17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE:

DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

Jared Stoffel 2/12/20

SIGNED DATE

Cynthia K. Crain 5/8/20

CHECKED DATE

REVISED 06/2011

TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: TT-2		
PROJECT NUMBER: 371909	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: Jared Stoffel		SURFACE ELEV.: —	
PROJECT LOCATION: Eddy Co., NM	N: — E: —	DATE STARTED: 12/10/19	
DRILLED BY: —	DRILLER NAME: —	DATE COMPLETED: 12/10/19	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		brown to black sand with clay, heavy hydrocarbon odor & staining	0-1' Sample
				>5000		brown to red m. sand with clay, light odor (hydrocarbon)	
				>5000	2.5		
				1655			
				1127	5.0		
				291.8			6' Sample
				124.0			
				72.4	7.5		
				49.7			8' Sample
				42.1	10.0	terminated due to PID readings	
					12.5		
					15.0		
					17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE:

DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

J [signature] 2/12/20

SIGNED DATE

Cynthia K. Crain 5/8/20

CHECKED DATE

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TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: TT-3		
PROJECT NUMBER: 371909	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: Jacob Stoffel		SURFACE ELEV.: —	
PROJECT LOCATION: Eddy County, NM	N: — E: —	DATE STARTED: 12/10/19	
DRILLED BY: —	DRILLER NAME: —	DATE COMPLETED: 12/10/19	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			18.7		brown to red m. sand with clay, no staining or odor	0-1' sample
				13.6			
				1.6	2.5		
				1.7			5' sample
				2.4	5.0	terminated due to PID readings	
					7.5		
					10.0		
					12.5		
					15.0		
					17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:			
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

Jacob Stoffel 2/12/20

SIGNED DATE

Cynthia K. Crain 5/8/20

CHECKED DATE

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TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: TT-4		
PROJECT NUMBER: 371909	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: Jacob Stoffel		SURFACE ELEV.: —	
PROJECT LOCATION: Eddy Co., NM	N: — E: —	DATE STARTED: 12/11/19	
DRILLED BY: —	DRILLER NAME: —	DATE COMPLETED: 12/11/19	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		black to brown sand with clay heavy hydrocarbon odor & staining	0-1' sampled
				>5000		brown to rd m. sand with clay, mod. to poor sorting, no staining, light hydrocarbon odor	
				>5000	2.5		
				1482			
				3404	5.0		
				2773			6' sampled
				1552			
				799.4	7.5	brown to rd m. sand with clay & gravel (rounded), poor sorting, moist	
				567.2			
				317.3	10.0		11' sampled
				142.1			
				44.0			
					12.5	terminated due to PID readings	
					15.0		
					17.5		
					20.0		

DRILLING METHOD
DRILL RIG
BORING DIAMETER

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:			
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

Jacob Stoffel 2/12/20
SIGNED DATE

Cynthia K. Crain 5/8/20
CHECKED DATE

REVISED 06/2011

TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: JT-5		
PROJECT NUMBER: 371909	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: Jared Stoffel		SURFACE ELEV.: —	
PROJECT LOCATION: Eddy Co., NM	N: — E: —	DATE STARTED: 12/10/19	
DRILLED BY: —	DRILLER NAME: —	DATE COMPLETED: 12/10/19	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		black to brown m, sand with clay heavy hydrocarbon odor & staining	0-1' sampled
				75000			
				>5000	2.5	brown to rd m, sand with clay, no staining, light odor	
				812.1			
				1130	5.0		6' sampled
				711.3			
				784.9			
				407.4	7.5		
				862.5		brown to rd m. Sand with clay & gravel (angular), moist, no odor	
				1768	10.0		
				88.2			11' sampled
				90.6	12.5	terminated due to PID	
					15.0		
					17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:			
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

J. Stoffel 2/12/20

SIGNED DATE

Cynthia K. Crain 5/8/20

CHECKED DATE

REVISED 06/2011

TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: TT-6		
PROJECT NUMBER: 371909	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: Jared Stoffel		SURFACE ELEV.: —	
PROJECT LOCATION: Eddy Co., NM	N: — E: —	DATE STARTED: 12/10/19	
DRILLED BY: —	DRILLER NAME: —	DATE COMPLETED: 12/11/19	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		black to brown sand with clay, heavy hydrocarbon staining & odor	0-1' sampled
				>5000		brown to red m. sand with clay no staining, light odor	
				>5000	2.5		
				>5000			
				2534	5.0		7' sampled
				709.7			
				321.7			
				829.4	7.5	brown to red m. sand with clay & gravel (angular), no odor, moist	
				311.2			
				389.6	10.0		
				115.5			
				112.1			12' sampled
					12.5	terminated due to PID readings	
					15.0		
					17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE:

DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

2/12/20

SIGNED DATE

Cynthia K. Crain 5/8/20

CHECKED DATE

REVISED 06/2011

TRC

LOG OF SOIL BORING

PROJECT NAME: Millman	SOIL BORING ID: TT-7		
PROJECT NUMBER: 371909	LOCATION:		SHEET 1 OF 1
LOGGED BY: Jared Stoffel			SURFACE ELEV.: —
PROJECT LOCATION: Eddy Co., NM	N: —	E: —	DATE STARTED: 12/10/19
DRILLED BY: —	DRILLER NAME: —		DATE COMPLETED: 12/11/19

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		brown to black sand with clay, hydrocarbon staining and odor	0-1' sampled
				>5000			
				>5000	2.5	red to brown m. sand with clay, no staining, light odor (hydrocarbon)	
				>5000			
				301.9	5.0		5' sampled
				1602			
				716.9			
				207.5	7.5		
				909.3		red to brown m. sand with clay & gravel (angular), moist, no odor	
				1564	10.0		
				305.9			
				618.3			12' sampled
					12.5	terminated due to backhoe max extent	
					15.0		
					17.5		
					20.0		

DRILLING METHOD
DRILL RIG
BORING DIAMETER

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:			
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

2/12/20
SIGNED DATE

Cynthia K. Crain 5/8/20
CHECKED DATE

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TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: VT-8		
PROJECT NUMBER: 371907	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: Jared Stoffel		SURFACE ELEV.: —	
PROJECT LOCATION: Eddy Co., NM	N: — E: —	DATE STARTED: 12/11/19	
DRILLED BY: —	DRILLER NAME: —	DATE COMPLETED: 12/11/19	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>6000	0	brown to black Sand with clay, heavy hydrocarbon staining + odor	0-1' Sampled
				>5000		brown to rd m. Sand with clay, no staining, light hydrocarbon odor	—
				>5000	2.5		
				524.3			
				103.1	5.0		
				662.7			
				160.0			7' Sampled
				203.5	7.5		
				360.1		brown to rd m. Sand with clay + gravel (angular), no odor, moist	
				158.2	10.0		11' Sampled
				84.4			—
						terminated due to PID readings	
					12.5		
					15.0		
					17.5		
					20.0		

DRILLING METHOD
DRILL RIG
BORING DIAMETER

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:			
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

Jared Stoffel 2/12/20

SIGNED DATE

Cynthia K. Crain 5/8/20

CHECKED DATE

REVISED 06/2011

TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: TT-9		
PROJECT NUMBER: 371909	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: Jared Stoffel		SURFACE ELEV.: ~	
PROJECT LOCATION: Eddy Co., NM	N: — E: ~	DATE STARTED: 12/11/19	
DRILLED BY: —	DRILLER NAME: ~	DATE COMPLETED: 12/11/19	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		brown to black sand with clay, hydrocarbon staining & odor	0-1' Sample
				25000		— — — — — — —	
				802.2	2.5	brown to red m. sand with clay, no hydrocarbon staining, light odor	
				219.9			
				283.4	5.0		4' sample
				104.4			
				344.4			
				65.9	7.5		8' sample
						terminated due to PID readings	
					10.0		
					12.5		
					15.0		
					17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE:

DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

2/12/20

SIGNED DATE

Cynthia K. Crain 5/8/20

CHECKED DATE

REVISED 06/2011

TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: TT-10		
PROJECT NUMBER: 371909	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: Jared Stoffel		SURFACE ELEV.: —	
PROJECT LOCATION: Eddy Co, NM	N: ~ E: ~	DATE STARTED: 12/11/19	
DRILLED BY: —	DRILLER NAME: ~	DATE COMPLETED: 12/11/19	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		brown to black sand with clay, heavy hydrocarbon staining & odor	0-1' sampled
				>5000			
				>5000	2.5	brown to red m. sand with clay, no staining, light hydrocarbon odor	
				>5000			
				302.2	5.0		
				699.2			7' sampled
				212.8			
				981.3	7.5	brown to red m. sand with clay & gravel (angular), no odor, moist	
				975.4			
				233.8	10.0		
				302.3			
				19.9			12' sampled
					12.5	terminated due to PID readings	
					15.0		
					17.5		
					20.0		

DRILLING METHOD
DRILL RIG
BORING DIAMETER

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:			
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

Jared Stoffel 5/12/20

SIGNED DATE

Cynthia K. Crain 5/8/20

CHECKED DATE

REVISED 06/2011

TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: AH-1		
PROJECT NUMBER: 371909	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: J. Stoffel		SURFACE ELEV.: —	
PROJECT LOCATION: Eddy Co., NM	N: —	E: —	DATE STARTED: 12/11/19
DRILLED BY: —	DRILLER NAME: —		DATE COMPLETED: 12/20/19

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		brown to black sand with clay, heavy hydrocarbon odor	0-1' sampled
				>5000			
				>5000	2.5		
				>5000			
				>5000	5.0		5' sample
					7.5		
						brown to red m. sand with clay, heavy hydrocarbon odor, moist	
					10.0		
				>5000			12' sample
					12.5	terminated due to refusal	
					15.0		
					17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE:

DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

SIGNED: Jed Stoffel DATE: 2/12/20

CHECKED: Cynthia K. Crain DATE: 5/8/20

Type text here

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TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: AH-2		
PROJECT NUMBER: 377909	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: J. Stoffel		SURFACE ELEV.: —	
PROJECT LOCATION: Eddy Co., NM	N: — E: —	DATE STARTED: 12/11/19	
DRILLED BY: —	DRILLER NAME: —	DATE COMPLETED: 12/20/19	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		brown to black sand with clay, heavy hydrocarbon odor	0-1' sampled
				>5000			
				>5000	2.5		
				>5000			
				>5000	5.0		5' sampled
						brown to tan m. sand with clay & trace gravel, light odor, moist	
				1632	7.5		8.5' sampled
						terminated due to PID readings	
					10.0		
					12.5		
					15.0		
					17.5		
					20.0		

DRILLING METHOD
DRILL RIG
BORING DIAMETER

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:			
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

2/12/20
SIGNED DATE

Cynthia K. Crain 5/8/20
CHECKED DATE

REVISED 06/2011

TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: AH-3		
PROJECT NUMBER: 371909	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: J. Stoffel		SURFACE ELEV.: —	
PROJECT LOCATION: Eddy Co., NM	N: — E: —	DATE STARTED: 12/11/19	
DRILLED BY: —	DRILLER NAME: —	DATE COMPLETED: 12/12/19	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		brown to black sand with clay, heavy hydrocarbon staining & odor	0-1' sampled
	↓			>5000			
				>5000	2.5		
				>5000			
				>5000	5.0		5' sampled
						brown to red m. sand w. clay & trace gravel (angular), moist, heavy odor	
					7.5		
					10.0		
				>5000			12' sampled
					12.5	terminated due to HA refusal	
					15.0		
					17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE:

DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

SIGNED [signature] DATE 2/20/20

CHECKED Cynthia K. Crain DATE 5/8/20

REVISED 06/2011

TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: AH-4		
PROJECT NUMBER: 371902	LOCATION: —	SHEET 1 OF 1	
LOGGED BY: S. Stoffel		SURFACE ELEV.: —	
PROJECT LOCATION: Eddy Co., NM	N: — E: —	DATE STARTED: 12/11/19	
DRILLED BY: —	DRILLER NAME: —	DATE COMPLETED: 12/20/19	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000	0-1'	brown to black sand with clay, heavy hydrocarbon odor	0-1' Sample
				>5000	2'		
				>5000	3'		
				>5000	4'		
				3,150	5'		5' Sample
					7.5	brown SM, sand, light staining, odorous w/clay, moist	
					10.0		
				>5000			11.5' sample
					12.5	Mechanical HA refusal	
					15.0		
					17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE:

DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

4/20/20
SIGNED DATE

Cynthia K. Crain 5/8/20
CHECKED DATE

REVISED 06/2011

TRC

LOG OF SOIL BORING

PROJECT NAME: Millman Station	SOIL BORING ID: AH-5		
PROJECT NUMBER: 371909	LOCATION:	SHEET 1 OF 7	
LOGGED BY: J. Stoffel		SURFACE ELEV.:	
PROJECT LOCATION: Eddy Co. NM	N:	E:	DATE STARTED: 12/19/19
DRILLED BY:	DRILLER NAME:		DATE COMPLETED: 12/20/19

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
	SW-SC			>5000		brown to black sand with clay, heavy hydrocarbon staining & odor	0-1' Sampled
				>5000			
				>5000	2.5		
				>5000			
				>5000	5.0		5' Sampled
						SAA + moist	
					7.5		
					10.0		
				>5000			11.5' Sampled
					12.5		
					15.0		
					17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:			
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

J. Stoffel 2/20/20

SIGNED DATE

Cynthia K. Crain 5/8/20

CHECKED DATE

REVISED 06/2011

PAGE 1 OF 1

TRC

LOG OF SOIL BORING

PROJECT NAME: HEP Millman Station	SOIL BORING ID: BH-1		
PROJECT NUMBER: 390408	LOCATION:	SHEET 1 OF 1	
LOGGED BY: Misti Teinert	Artesia, NM	SURFACE ELEV.:	
PROJECT LOCATION: Rural Eddy County, NM	N:32.664476 E:104.126601	DATE STARTED:	
DRILLED BY: Talon	DRILLER NAME: Ronnie Rodriguez	DATE COMPLETED:	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
					2.5	Previously analyzed	
					5.0		Submitted/ Collected
				24ppm		Light brown, medium SAND, coarse grained, well sorted	BH-1 @6'
				6ppm	7.5	Damp, no odor or staining	BH-1 @7'
						SAA	
					10.0		
					12.5		
					15.0		
					17.5		
					20.0		

DRILLING METHOD
Direct Push
DRILL RIG
BORING DIAMETER

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: N/A

DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

Misti Teinert 3/31/2020

SIGNED DATE

Cynthia K. Crain 5/8/20

CHECKED DATE

REVISED 06/2011

PAGE 1 OF 1

TRC

LOG OF SOIL BORING

PROJECT NAME: HEP Millman Station	SOIL BORING ID: BH-3	
PROJECT NUMBER: 390408	LOCATION: Artesia, NM	SHEET 1 OF 1
LOGGED BY: Misti Teinert		SURFACE ELEV.: 1,200
PROJECT LOCATION: Rural Eddy County, NM	N: 32.664407 W 104.126647	DATE STARTED: 3/31/2020
DRILLED BY: Talon	DRILLER NAME: Ronnie Rodriguez	DATE COMPLETED: 3/31/2020

NO	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
					2.5	Previously analyzed	
					5.0		
					7.5		
					10.0		
					12.5		Submitted/ Collected
				4 ppm 1.4 ppm	15.0	Dark brown, medium SAND, coarse grained, well sorted Damp, no odor or staining SAA	BH-3 @ 13', Duplicate BH-3 @ 14'
					17.5		
					20.0		

DRILLING METHOD
Direct push
DRILL RIG
BORING DIAMETER

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: N/A			
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

Misti Teinert 3/31/2020
SIGNED DATE

Cynthia K. Clair 5/8/20
CHECKED DATE

REVISED 06/2011

Appendix D: Laboratory Analytical Reports

December 23, 2019

Cindy Crain
TRC Environmental Corp.
10 Desta Dr. #150E
Midland, Texas 79705
TEL: (432) 215-6730
FAX

Order No.: 1912126

RE: HEP Millman

Dear Cindy Crain:

DHL Analytical, Inc. received 21 sample(s) on 12/12/2019 for the analyses presented in the following report.

Revision Number 1 for Work Order 1912126: This revision consists of including the login documentation and changing the target analyte list. Please replace the original Data Report with this revision.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-19-24

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

Nº 80054 CHAIN-OF-CUSTODY

CLIENT: HEP + RC
ADDRESS: 10 Desta Dr STE 150E
PHONE: 432-215-6730 FAX/E-MAIL:
DATA REPORTED TO: CKrain@trcsolutions.com
ADDITIONAL REPORT COPIES TO:

DATE: 12/10/19 PAGE 1 OF 2
PO #: Will Email DHL WORK ORDER #: 1912126
PROJECT LOCATION OR NAME: HEP Millman
CLENT PROJECT #: COLLECTOR: J. Stoffel

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR L=LIQUID SE=SEDIMENT P=PAINT SL=SLUDGE O=OTHER SO=SOLID

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☒ MTBE ☐ [METHOD 8021] | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO [METHOD 8015] ☒ DRO [METHOD 8105] ☒ | VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ | 8270 PEST ☐ 625 PEST/PCB ☐ 608 PCB ☐ 8082 PCB ☐ 8270 PCB ☐ | 8270 O-P PEST ☐ 8321 HERB ☐ T PHOS, AMMONIA ☐ | METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ ____ ☐ | RCRA ☐ TX11 ☐ ____ ☐ | PH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐ | CHLORIDE ☒ ANIONS ____ ☐ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ FLASHPOINT ☐ DGAS ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESERVED	BTEX	TPH 1005	GRO	VOC 8260	SVOC 8270	8270 PEST	8270 O-P PEST	8321 HERB	METALS 6020	RCRA	PH	CHLORIDE	TCLP-SVOC	TCLP-METALS	RCI	TDS	FIELD NOTES
TB-20191210	01	~~12/10/19~~	1700	soil	VOA, ~~4oz~~	~~2~~						X	X									1						Direct Bill HEP
Dup-1	02	55	—		VOA, 4oz	4						X	X									X						
TT-1@0-1'	03	~~12/10/19~~ 55	1000									X	X									X						
TT-1@3'	04	~~1010~~ 55	1010									X	X									X						
TT-1@5'	05	~~1020~~ 55	1020									X	X									X						
TT-2@0-1'	06		~~1035~~	1030								X	X									X						
TT-2@6'	07		~~1055~~									X	X									X						
TT-2@8'	08		1105									X	X									X						
TT-3@0-1'	09		1120									X	X									X						
TT-3@5'	10		1140									X	X									X						
TT-4@0-1'	11		1145									X	X									X						
TT-4@6'	12		1210									X	X									X						
TT-4@11'	13		1235									X	X									X						
TT-5@0-1'	14		1242									X	X									X						
TT-5@6'	15	12/10/19	1252	↓	↓							X	X									X						

RELINQUISHED BY: (Signature) DATE/TIME 12/10/19 1500 RECEIVED BY: (Signature) Fed Ex
RELINQUISHED BY: (Signature) Fed Ex DATE/TIME 12/12/19 0731 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

3

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 3.1°C THERM #: 78
CUSTODY SEALS: ☐ BROKEN ☒ INTACT ☐ NOT USED
CARRIER: ☐ LONE STAR ☒ FEDEX ☐ UPS ☐ OTHER
☐ COURIER DELIVERY
☐ HAND DELIVERED

DHL COC Rev 1 | FEB 2010

DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

№ 80055 CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 10 Desta Dr STE 150E
PHONE: 432-215-6730 FAX/E-MAIL:
DATA REPORTED TO: CLccain@trcsolutions.com
ADDITIONAL REPORT COPIES TO:

DATE: 12/10/19 PAGE 2 OF 2
PO #: will email DHL WORK ORDER #: 1912126
PROJECT LOCATION OR NAME: HEP Millman
CLENT PROJECT #: COLLECTOR: J. Staffel

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR L=LIQUID SE=SEDIMENT P=PAINT SL=SLUDGE O=OTHER SO=SOLID

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☒ MTBE ☐ [METHOD 8021] | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO [METHOD 8015] ☒ DRO [METHOD 8015] ☒ | VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ | 8270 PEST ☐ 625 PEST/PCB ☐ 608 PCB ☐ | 8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐ | 8321 HERB ☐ T PHOS, AMMONIA ☐ | METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ | RCRA ☐ TX11 ☐ ___ ☐ | PH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐ | CHLORIDE ☒ ANIONS ___ ☐ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ FLASHPOINT ☐ DGAS ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☒	MTBE ☐ [METHOD 8021]	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO [METHOD 8015] ☒ DRO [METHOD 8015] ☒	VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐	8270 PEST ☐ 625 PEST/PCB ☐ 608 PCB ☐	8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐	8321 HERB ☐ T PHOS, AMMONIA ☐	METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐	RCRA ☐ TX11 ☐ ___ ☐	PH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐	CHLORIDE ☒ ANIONS ___ ☐	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ FLASHPOINT ☐ DGAS ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	FIELD NOTES
TT-5@11'	16	12/10/19	1302	soil	VOA, 4oz	4					X	X		X										X						
TT-6@0-1'	17	"	1310									X		X										X						
TT-6@7'	18		1322									X		X										X						
TT-6@12'	19		1332									X		X										X						
TT-7@0-1'	20		1430									X		X										X						
TT-7@5'	21		1450									X		X										X						

RELINQUISHED BY: (Signature) DATE/TIME 12/10/19 1560 RECEIVED BY: (Signature) Fed Ex
RELINQUISHED BY: (Signature) DATE/TIME 12/11/19 0731 RECEIVED BY: (Signature)
Fed Ex
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

4

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ _____

LABORATORY USE ONLY:
RECEIVING TEMP: 3.1 C THERM #: 78
CUSTODY SEALS: ☐ BROKEN ☒ INTACT ☐ NOT USED
CARRIER: ☐ LONE STAR ☒ FEDEX ☐ UPS ☐ OTHER
☐ COURIER DELIVERY
☐ HAND DELIVERED

DHL COC Rev 1 | FEB 2010

ORIGIN ID:HOBA (432) 238-3003
JARED STOFFEL
TRC
505 E HUNTLAND DR STE 250

AUSTIN, TX 78752
UNITED STATES US

SHIP DATE: 11DEC19
ACTWGT: 53.90 LB
CAD: 6994246/SSFE2021
DIMS: 23x13x14 IN

BILL THIRD PARTY

TO DHL ANALYTICAL
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 388-8222 REF:
INV:
PO: DEPT:

FedEx
Express
E

1 of 2
TRK# 7788 3163 6678
0201
MASTER

THU - 12 DEC 8:00A
FIRST OVERNIGHT

A1 BSMA

78664
TX-US AUS

CUSTODY SEAL

DATE 12/11/19

SIGNATURE

DHL ANALYTICAL

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name TRC Environmental Corp. Date Received: 12/12/2019

Work Order Number 1912126 Received by: EL

Checklist completed by: _____ 12/12/2019 Reviewed by (JL) 12/12/2019
Signature | Date | Initials | Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	3.1 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Name: DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: HEP Millman	**LRC Date:** 12/20/2019
Reviewer Name: Angie O'Donnell	**Laboratory Work Order: 1912126**
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	**1)** Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?	X				
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			**R4-02**
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MDL?	X				
		5) For analyte(s) detected in a blank sample, was the concentration, unadjusted for sample specific factors, in all associated field samples, **greater** than 10 times the concentration in the blank sample?			X		
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Name: DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: HEP Millman	**LRC Date:** 12/20/2019
Reviewer Name: Angie O'Donnell	**Laboratory Work Order: 1912126**
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory is not accredited under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on February 25-28, 2019. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name: John DuPont
Official Title: General Manager

Signature

12/23/19

Date

Name: Dr. Derhsing Luu
Official Title: Technical Director

DHL Analytical, Inc. **Date:** *20-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Lab Order: 1912126

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method M8015D - TPH Extractable by GC (DRO/ORO) Analysis
Method M8015V - TPH Purgeable by GC (GRO) Analysis
Method SW8260D - Volatile Organics Analysis
Method SW9056A - Anions Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 12/12/2019. A total of 21 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For Volatile Organics Analysis, the recoveries of two surrogates for three samples were above the method control limits. These were flagged accordingly in the Analytical Data Report. The remaining surrogates for these samples were within method control limits. No further corrective action was taken.

For TPH Extractable by GC (DRO/ORO) Analysis, the recovery of Octacosane for three samples was above the method control limits. The remaining surrogate for these samples was within method control limits. Additionally, the recoveries of both samples for five samples were above the method control limits, due to coelution. These were flagged accordingly in the Analytical Data Report. No further corrective action was taken.

For TPH Purgeable by GC (GRO) Analysis, the recovery of Tetrachloroethene for Sample TT-2@0-1' was below the method control limits, due to matrix and confirmed by re-analysis. This is flagged accordingly in the Analytical Data Report. No further corrective action was taken.

DHL Analytical, Inc.

Date: *20-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Lab Order: 1912126

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1912126-01	TB-20191210		12/10/19 05:00 PM	12/12/2019
1912126-02	Dup-1		12/10/19	12/12/2019
1912126-03	TT-1@0-1'		12/10/19 10:00 AM	12/12/2019
1912126-04	TT-1@3'		12/10/19 10:10 AM	12/12/2019
1912126-05	TT-1@5'		12/10/19 10:20 AM	12/12/2019
1912126-06	TT-2@0-1'		12/10/19 10:30 AM	12/12/2019
1912126-07	TT-2@6'		12/10/19 10:55 AM	12/12/2019
1912126-08	TT-2@8'		12/10/19 11:05 AM	12/12/2019
1912126-09	TT-3@0-1'		12/10/19 11:20 AM	12/12/2019
1912126-10	TT-3@5'		12/10/19 11:40 AM	12/12/2019
1912126-11	TT-4@0-1'		12/10/19 11:45 AM	12/12/2019
1912126-12	TT-4@6'		12/10/19 12:10 PM	12/12/2019
1912126-13	TT-4@11'		12/10/19 12:35 PM	12/12/2019
1912126-14	TT-5@0-1'		12/10/19 12:42 PM	12/12/2019
1912126-15	TT-5@6'		12/10/19 12:52 PM	12/12/2019
1912126-16	TT-5@11'		12/10/19 01:02 PM	12/12/2019
1912126-17	TT-6@0-1'		12/10/19 01:10 PM	12/12/2019
1912126-18	TT-6@7'		12/10/19 01:22 PM	12/12/2019
1912126-19	TT-6@12'		12/10/19 01:32 PM	12/12/2019
1912126-20	TT-7@0-1'		12/10/19 02:30 PM	12/12/2019
1912126-21	TT-7@5'		12/10/19 02:50 PM	12/12/2019

Lab Order: 1912126
Client: TRC Environmental Corp.
Project: HEP Millman

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912126-01A	TB-20191210	12/10/19 05:00 PM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	12/17/19 02:27 PM	94118
1912126-02A	Dup-1	12/10/19	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-02B	Dup-1	12/10/19	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
1912126-02C	Dup-1	12/10/19	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	Dup-1	12/10/19	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	Dup-1	12/10/19	Soil	D2216	Moisture Preparation	12/13/19 03:11 PM	94110
	Dup-1	12/10/19	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-03A	TT-1@0-1'	12/10/19 10:00 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-03B	TT-1@0-1'	12/10/19 10:00 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
	TT-1@0-1'	12/10/19 10:00 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
1912126-03C	TT-1@0-1'	12/10/19 10:00 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-1@0-1'	12/10/19 10:00 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-1@0-1'	12/10/19 10:00 AM	Soil	D2216	Moisture Preparation	12/13/19 03:11 PM	94110
	TT-1@0-1'	12/10/19 10:00 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
	TT-1@0-1'	12/10/19 10:00 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-04A	TT-1@3'	12/10/19 10:10 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-04B	TT-1@3'	12/10/19 10:10 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
	TT-1@3'	12/10/19 10:10 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
1912126-04C	TT-1@3'	12/10/19 10:10 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-1@3'	12/10/19 10:10 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-1@3'	12/10/19 10:10 AM	Soil	D2216	Moisture Preparation	12/13/19 03:11 PM	94110
	TT-1@3'	12/10/19 10:10 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-05A	TT-1@5'	12/10/19 10:20 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-05B	TT-1@5'	12/10/19 10:20 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
	TT-1@5'	12/10/19 10:20 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
1912126-05C	TT-1@5'	12/10/19 10:20 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-1@5'	12/10/19 10:20 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-1@5'	12/10/19 10:20 AM	Soil	D2216	Moisture Preparation	12/13/19 03:11 PM	94110

Lab Order: 1912126
Client: TRC Environmental Corp.
Project: HEP Millman

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912126-05C	TT-1@5'	12/10/19 10:20 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
	TT-1@5'	12/10/19 10:20 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-06A	TT-2@0-1'	12/10/19 10:30 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
	TT-2@0-1'	12/10/19 10:30 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-06B	TT-2@0-1'	12/10/19 10:30 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
	TT-2@0-1'	12/10/19 10:30 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
	TT-2@0-1'	12/10/19 10:30 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
1912126-06C	TT-2@0-1'	12/10/19 10:30 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-2@0-1'	12/10/19 10:30 AM	Soil	D2216	Moisture Preparation	12/13/19 03:11 PM	94110
	TT-2@0-1'	12/10/19 10:30 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
	TT-2@0-1'	12/10/19 10:30 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-07A	TT-2@6'	12/10/19 10:55 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-07B	TT-2@6'	12/10/19 10:55 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
	TT-2@6'	12/10/19 10:55 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
1912126-07C	TT-2@6'	12/10/19 10:55 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-2@6'	12/10/19 10:55 AM	Soil	D2216	Moisture Preparation	12/13/19 03:11 PM	94110
	TT-2@6'	12/10/19 10:55 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-08A	TT-2@8'	12/10/19 11:05 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-08B	TT-2@8'	12/10/19 11:05 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
	TT-2@8'	12/10/19 11:05 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
1912126-08C	TT-2@8'	12/10/19 11:05 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-2@8'	12/10/19 11:05 AM	Soil	D2216	Moisture Preparation	12/13/19 03:11 PM	94110
	TT-2@8'	12/10/19 11:05 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-09A	TT-3@0-1'	12/10/19 11:20 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-09B	TT-3@0-1'	12/10/19 11:20 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
	TT-3@0-1'	12/10/19 11:20 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
1912126-09C	TT-3@0-1'	12/10/19 11:20 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-3@0-1'	12/10/19 11:20 AM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138

Lab Order: 1912126
Client: TRC Environmental Corp.
Project: HEP Millman

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912126-09C	TT-3@0-1'	12/10/19 11:20 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
	TT-3@0-1'	12/10/19 11:20 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-10A	TT-3@5'	12/10/19 11:40 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-10B	TT-3@5'	12/10/19 11:40 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
	TT-3@5'	12/10/19 11:40 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
1912126-10C	TT-3@5'	12/10/19 11:40 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-3@5'	12/10/19 11:40 AM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-3@5'	12/10/19 11:40 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-11A	TT-4@0-1'	12/10/19 11:45 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-11B	TT-4@0-1'	12/10/19 11:45 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
	TT-4@0-1'	12/10/19 11:45 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
1912126-11C	TT-4@0-1'	12/10/19 11:45 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-4@0-1'	12/10/19 11:45 AM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-4@0-1'	12/10/19 11:45 AM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-4@0-1'	12/10/19 11:45 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
	TT-4@0-1'	12/10/19 11:45 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-12A	TT-4@6'	12/10/19 12:10 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-12B	TT-4@6'	12/10/19 12:10 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/13/19 09:11 AM	94096
1912126-12C	TT-4@6'	12/10/19 12:10 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-4@6'	12/10/19 12:10 PM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-4@6'	12/10/19 12:10 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-13A	TT-4@11'	12/10/19 12:35 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-13B	TT-4@11'	12/10/19 12:35 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912126-13C	TT-4@11'	12/10/19 12:35 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-4@11'	12/10/19 12:35 PM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-4@11'	12/10/19 12:35 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-14A	TT-5@0-1'	12/10/19 12:42 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
	TT-5@0-1'	12/10/19 12:42 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095

Lab Order: 1912126
Client: TRC Environmental Corp.
Project: HEP Millman

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912126-14B	TT-5@0-1'	12/10/19 12:42 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
	TT-5@0-1'	12/10/19 12:42 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912126-14C	TT-5@0-1'	12/10/19 12:42 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-5@0-1'	12/10/19 12:42 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-5@0-1'	12/10/19 12:42 PM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-5@0-1'	12/10/19 12:42 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
	TT-5@0-1'	12/10/19 12:42 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-15A	TT-5@6'	12/10/19 12:52 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-15B	TT-5@6'	12/10/19 12:52 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912126-15C	TT-5@6'	12/10/19 12:52 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-5@6'	12/10/19 12:52 PM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-5@6'	12/10/19 12:52 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-16A	TT-5@11'	12/10/19 01:02 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-16B	TT-5@11'	12/10/19 01:02 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912126-16C	TT-5@11'	12/10/19 01:02 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-5@11'	12/10/19 01:02 PM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-5@11'	12/10/19 01:02 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-17A	TT-6@0-1'	12/10/19 01:10 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
	TT-6@0-1'	12/10/19 01:10 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-17B	TT-6@0-1'	12/10/19 01:10 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
	TT-6@0-1'	12/10/19 01:10 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912126-17C	TT-6@0-1'	12/10/19 01:10 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-6@0-1'	12/10/19 01:10 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-6@0-1'	12/10/19 01:10 PM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-6@0-1'	12/10/19 01:10 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
	TT-6@0-1'	12/10/19 01:10 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-18A	TT-6@7'	12/10/19 01:22 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
	TT-6@7'	12/10/19 01:22 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095

Lab Order: 1912126
Client: TRC Environmental Corp.
Project: HEP Millman

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912126-18B	TT-6@7'	12/10/19 01:22 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912126-18C	TT-6@7'	12/10/19 01:22 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-6@7'	12/10/19 01:22 PM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-6@7'	12/10/19 01:22 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-19A	TT-6@12'	12/10/19 01:32 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
	TT-6@12'	12/10/19 01:32 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-19B	TT-6@12'	12/10/19 01:32 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912126-19C	TT-6@12'	12/10/19 01:32 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-6@12'	12/10/19 01:32 PM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-6@12'	12/10/19 01:32 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-20A	TT-7@0-1'	12/10/19 02:30 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
	TT-7@0-1'	12/10/19 02:30 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-20B	TT-7@0-1'	12/10/19 02:30 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
	TT-7@0-1'	12/10/19 02:30 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912126-20C	TT-7@0-1'	12/10/19 02:30 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-7@0-1'	12/10/19 02:30 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-7@0-1'	12/10/19 02:30 PM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-7@0-1'	12/10/19 02:30 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
	TT-7@0-1'	12/10/19 02:30 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127
1912126-21A	TT-7@5'	12/10/19 02:50 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
	TT-7@5'	12/10/19 02:50 PM	Soil	SW5035A	Purge and Trap 5035	12/13/19 09:10 AM	94095
1912126-21B	TT-7@5'	12/10/19 02:50 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912126-21C	TT-7@5'	12/10/19 02:50 PM	Soil	SW9056A	Anion Prep	12/16/19 09:01 AM	94126
	TT-7@5'	12/10/19 02:50 PM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-7@5'	12/10/19 02:50 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/16/19 09:12 AM	94127

Lab Order: 1912126
Client: TRC Environmental Corp.
Project: HEP Millman

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912126-01A	TB-20191210	Trip Blank	SW8260D	Volatile Aromatics by GC/MS	94118	1	12/17/19 06:25 PM	GCMS3_191217A
1912126-02A	Dup-1	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 10:16 AM	GCMS1_191213A
1912126-02B	Dup-1	Soil	M8015V	TPH Purgeable by GC - Soil	94096	20	12/13/19 12:01 PM	GC4_191213A
1912126-02C	Dup-1	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 02:24 PM	IC4_191216A
	Dup-1	Soil	SW9056A	Anions by IC method - Soil	94126	1	12/16/19 10:40 PM	IC4_191216A
	Dup-1	Soil	D2216	Percent Moisture	94110	1	12/15/19 01:40 PM	PMOIST_191213B
	Dup-1	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 10:43 AM	GC15_191217A
1912126-03A	TT-1@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 10:45 AM	GCMS1_191213A
1912126-03B	TT-1@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	1	12/13/19 12:25 PM	GC4_191213A
	TT-1@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	50	12/13/19 09:43 PM	GC4_191213A
1912126-03C	TT-1@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 02:40 PM	IC4_191216A
	TT-1@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	1	12/16/19 11:44 PM	IC4_191216A
	TT-1@0-1'	Soil	D2216	Percent Moisture	94110	1	12/15/19 01:40 PM	PMOIST_191213B
	TT-1@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	100	12/17/19 02:17 PM	GC15_191217A
	TT-1@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	10	12/17/19 03:39 PM	GC15_191217A
1912126-04A	TT-1@3'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 11:15 AM	GCMS1_191213A
1912126-04B	TT-1@3'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	1	12/13/19 12:49 PM	GC4_191213A
	TT-1@3'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	20	12/13/19 06:06 PM	GC4_191213A
1912126-04C	TT-1@3'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 02:56 PM	IC4_191216A
	TT-1@3'	Soil	SW9056A	Anions by IC method - Soil	94126	1	12/17/19 12:16 AM	IC4_191216A
	TT-1@3'	Soil	D2216	Percent Moisture	94110	1	12/15/19 01:40 PM	PMOIST_191213B
	TT-1@3'	Soil	M8015D	TPH Extractable by GC - Soil	94127	100	12/17/19 02:35 PM	GC15_191217A
1912126-05A	TT-1@5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 11:44 AM	GCMS1_191213A
1912126-05B	TT-1@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	20	12/13/19 06:31 PM	GC4_191213A
	TT-1@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	1	12/13/19 01:13 PM	GC4_191213A
1912126-05C	TT-1@5'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 03:12 PM	IC4_191216A
	TT-1@5'	Soil	SW9056A	Anions by IC method - Soil	94126	1	12/17/19 12:32 AM	IC4_191216A
	TT-1@5'	Soil	D2216	Percent Moisture	94110	1	12/15/19 01:40 PM	PMOIST_191213B

Lab Order: 1912126
Client: TRC Environmental Corp.
Project: HEP Millman

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912126-05C	TT-1@5'	Soil	M8015D	TPH Extractable by GC - Soil	94127	100	12/17/19 02:54 PM	GC15_191217A
	TT-1@5'	Soil	M8015D	TPH Extractable by GC - Soil	94127	10	12/17/19 03:57 PM	GC15_191217A
1912126-06A	TT-2@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 12:13 PM	GCMS1_191213A
	TT-2@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	200	12/13/19 07:59 PM	GCMS1_191213A
1912126-06B	TT-2@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	200	12/16/19 06:27 PM	GC4_191216A
	TT-2@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	200	12/13/19 10:07 PM	GC4_191213A
	TT-2@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	1	12/13/19 01:37 PM	GC4_191213A
1912126-06C	TT-2@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 03:28 PM	IC4_191216A
	TT-2@0-1'	Soil	D2216	Percent Moisture	94110	1	12/15/19 01:40 PM	PMOIST_191213B
	TT-2@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	10	12/17/19 04:15 PM	GC15_191217A
	TT-2@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	50	12/17/19 06:24 PM	GC15_191217A
1912126-07A	TT-2@6'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 12:42 PM	GCMS1_191213A
1912126-07B	TT-2@6'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	20	12/13/19 06:55 PM	GC4_191213A
	TT-2@6'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	1	12/13/19 02:01 PM	GC4_191213A
1912126-07C	TT-2@6'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 03:44 PM	IC4_191216A
	TT-2@6'	Soil	D2216	Percent Moisture	94110	1	12/15/19 01:40 PM	PMOIST_191213B
	TT-2@6'	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 11:25 AM	GC15_191217A
1912126-08A	TT-2@8'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 01:11 PM	GCMS1_191213A
1912126-08B	TT-2@8'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	1	12/13/19 02:25 PM	GC4_191213A
	TT-2@8'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	20	12/13/19 07:18 PM	GC4_191213A
1912126-08C	TT-2@8'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 04:00 PM	IC4_191216A
	TT-2@8'	Soil	D2216	Percent Moisture	94110	1	12/15/19 01:40 PM	PMOIST_191213B
	TT-2@8'	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 11:34 AM	GC15_191217A
1912126-09A	TT-3@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 01:41 PM	GCMS1_191213A
1912126-09B	TT-3@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	1	12/13/19 02:55 PM	GC4_191213A
	TT-3@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	20	12/13/19 07:43 PM	GC4_191213A
1912126-09C	TT-3@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 04:16 PM	IC4_191216A
	TT-3@0-1'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A

Lab Order: 1912126
Client: TRC Environmental Corp.
Project: HEP Millman

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912126-09C	TT-3@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	10	12/17/19 04:33 PM	GC15_191217A
	TT-3@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 06:06 PM	GC15_191217A
1912126-10A	TT-3@5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 02:10 PM	GCMS1_191213A
1912126-10B	TT-3@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	1	12/13/19 03:19 PM	GC4_191213A
	TT-3@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	20	12/13/19 08:07 PM	GC4_191213A
1912126-10C	TT-3@5'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 04:32 PM	IC4_191216A
	TT-3@5'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-3@5'	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 11:43 AM	GC15_191217A
1912126-11A	TT-4@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 02:39 PM	GCMS1_191213A
1912126-11B	TT-4@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	1	12/13/19 03:43 PM	GC4_191213A
	TT-4@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	200	12/13/19 10:30 PM	GC4_191213A
1912126-11C	TT-4@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	1	12/17/19 12:48 AM	IC4_191216A
	TT-4@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 04:48 PM	IC4_191216A
	TT-4@0-1'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-4@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	10	12/17/19 04:52 PM	GC15_191217A
	TT-4@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	100	12/17/19 06:33 PM	GC15_191217A
1912126-12A	TT-4@6'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 03:08 PM	GCMS1_191213A
1912126-12B	TT-4@6'	Soil	M8015V	TPH Purgeable by GC - Soil	94096	20	12/13/19 08:30 PM	GC4_191213A
1912126-12C	TT-4@6'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 06:40 PM	IC4_191216A
	TT-4@6'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-4@6'	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 11:52 AM	GC15_191217A
1912126-13A	TT-4@11'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 03:37 PM	GCMS1_191213A
1912126-13B	TT-4@11'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 12:52 PM	GC4_191216A
1912126-13C	TT-4@11'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 06:56 PM	IC4_191216A
	TT-4@11'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-4@11'	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 12:01 PM	GC15_191217A
1912126-14A	TT-5@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 04:06 PM	GCMS1_191213A
	TT-5@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	500	12/14/19 10:43 PM	GCMS2_191214B

Lab Order: 1912126
Client: TRC Environmental Corp.
Project: HEP Millman

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912126-14B	TT-5@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	200	12/16/19 03:39 PM	GC4_191216A
	TT-5@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	500	12/17/19 12:01 AM	GC4_191216A
1912126-14C	TT-5@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 07:12 PM	IC4_191216A
	TT-5@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	1	12/17/19 10:47 AM	IC4_191217A
	TT-5@0-1'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-5@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	10	12/17/19 05:10 PM	GC15_191217A
	TT-5@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	100	12/17/19 06:42 PM	GC15_191217A
1912126-15A	TT-5@6'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 04:35 PM	GCMS1_191213A
1912126-15B	TT-5@6'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 01:16 PM	GC4_191216A
1912126-15C	TT-5@6'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 07:28 PM	IC4_191216A
	TT-5@6'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-5@6'	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 12:10 PM	GC15_191217A
1912126-16A	TT-5@11'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 05:05 PM	GCMS1_191213A
1912126-16B	TT-5@11'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 01:40 PM	GC4_191216A
1912126-16C	TT-5@11'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 07:44 PM	IC4_191216A
	TT-5@11'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-5@11'	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 12:19 PM	GC15_191217A
1912126-17A	TT-6@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 05:34 PM	GCMS1_191213A
	TT-6@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	2000	12/14/19 11:11 PM	GCMS2_191214B
1912126-17B	TT-6@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	200	12/16/19 04:03 PM	GC4_191216A
	TT-6@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	2000	12/17/19 12:25 AM	GC4_191216A
1912126-17C	TT-6@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 08:00 PM	IC4_191216A
	TT-6@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	1	12/17/19 11:03 AM	IC4_191217A
	TT-6@0-1'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-6@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	100	12/17/19 06:51 PM	GC15_191217A
	TT-6@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	10	12/17/19 05:28 PM	GC15_191217A
1912126-18A	TT-6@7'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 06:03 PM	GCMS1_191213A
	TT-6@7'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/14/19 09:18 PM	GCMS2_191214B

Lab Order: 1912126
Client: TRC Environmental Corp.
Project: HEP Millman

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912126-18B	TT-6@7'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 02:27 PM	GC4_191216A
1912126-18C	TT-6@7'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 08:16 PM	IC4_191216A
	TT-6@7'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-6@7'	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 12:28 PM	GC15_191217A
1912126-19A	TT-6@12'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 06:32 PM	GCMS1_191213A
	TT-6@12'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/14/19 09:47 PM	GCMS2_191214B
1912126-19B	TT-6@12'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 02:51 PM	GC4_191216A
1912126-19C	TT-6@12'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 08:32 PM	IC4_191216A
	TT-6@12'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-6@12'	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 12:37 PM	GC15_191217A
1912126-20A	TT-7@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 07:01 PM	GCMS1_191213A
	TT-7@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	500	12/14/19 11:40 PM	GCMS2_191214B
1912126-20B	TT-7@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	200	12/16/19 04:27 PM	GC4_191216A
	TT-7@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	1000	12/17/19 12:49 AM	GC4_191216A
1912126-20C	TT-7@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	1	12/17/19 11:19 AM	IC4_191217A
	TT-7@0-1'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 08:48 PM	IC4_191216A
	TT-7@0-1'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-7@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	100	12/17/19 07:00 PM	GC15_191217A
	TT-7@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94127	10	12/17/19 05:46 PM	GC15_191217A
1912126-21A	TT-7@5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/13/19 07:31 PM	GCMS1_191213A
	TT-7@5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94095	50	12/14/19 10:15 PM	GCMS2_191214B
1912126-21B	TT-7@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 03:15 PM	GC4_191216A
1912126-21C	TT-7@5'	Soil	SW9056A	Anions by IC method - Soil	94126	10	12/16/19 09:04 PM	IC4_191216A
	TT-7@5'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-7@5'	Soil	M8015D	TPH Extractable by GC - Soil	94127	1	12/17/19 12:46 PM	GC15_191217A

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	TB-20191210
Project:	HEP Millman	**Lab ID:**	1912126-01
Project No:		**Collection Date:**	12/10/19 05:00 PM
Lab Order:	1912126	**Matrix:**	TRIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE AROMATICS BY GC/MS		**SW8260D**					Analyst: **BTJ**
Benzene	<0.000800	0.000800	0.00200		mg/L	1	12/17/19 06:25 PM
Ethylbenzene	<0.00200	0.00200	0.00600		mg/L	1	12/17/19 06:25 PM
Toluene	<0.00200	0.00200	0.00600		mg/L	1	12/17/19 06:25 PM
Total Xylenes	<0.00200	0.00200	0.00600		mg/L	1	12/17/19 06:25 PM
Surr: 1,2-Dichloroethane-d4	99.0	0	72-119		%REC	1	12/17/19 06:25 PM
Surr: 4-Bromofluorobenzene	98.6	0	76-119		%REC	1	12/17/19 06:25 PM
Surr: Dibromofluoromethane	102	0	85-115		%REC	1	12/17/19 06:25 PM
Surr: Toluene-d8	101	0	81-120		%REC	1	12/17/19 06:25 PM

Qualifiers:

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N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: Dup-1
Lab ID: 1912126-02
Collection Date: 12/10/19
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<2.96	2.96	9.87		mg/Kg-dry	1	12/17/19 10:43 AM
TPH-ORO >C28-C35	<2.96	2.96	9.87		mg/Kg-dry	1	12/17/19 10:43 AM
Surr: Isopropylbenzene	82.6	0	47-142		%REC	1	12/17/19 10:43 AM
Surr: Octacosane	80.1	0	25-162		%REC	1	12/17/19 10:43 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<1.90	1.90	3.81		mg/Kg-dry	20	12/13/19 12:01 PM
Surr: Tetrachlorethene	115	0	70-134		%REC	20	12/13/19 12:01 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0476	0.0476	0.238		mg/Kg-dry	50	12/13/19 10:16 AM
Ethylbenzene	<0.0476	0.0476	0.238		mg/Kg-dry	50	12/13/19 10:16 AM
Toluene	<0.0476	0.0476	0.238		mg/Kg-dry	50	12/13/19 10:16 AM
Xylenes, Total	<0.0476	0.0476	0.238		mg/Kg-dry	50	12/13/19 10:16 AM
Surr: 1,2-Dichloroethane-d4	100	0	52-149		%REC	50	12/13/19 10:16 AM
Surr: 4-Bromofluorobenzene	93.9	0	84-118		%REC	50	12/13/19 10:16 AM
Surr: Dibromofluoromethane	98.0	0	65-135		%REC	50	12/13/19 10:16 AM
Surr: Toluene-d8	101	0	84-116		%REC	50	12/13/19 10:16 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	41.2	1.96	4.89		mg/Kg-dry	1	12/16/19 10:40 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	3.31	0	0		WT%	1	12/15/19 01:40 PM

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C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-1@0-1'
Lab ID: 1912126-03
Collection Date: 12/10/19 10:00 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	1100	31.8	106		mg/Kg-dry	10	12/17/19 03:39 PM
TPH-ORO >C28-C35	266	31.8	106		mg/Kg-dry	10	12/17/19 03:39 PM
Surr: Isopropylbenzene	84.5	0	47-142		%REC	10	12/17/19 03:39 PM
Surr: Octacosane	312	0	25-162	S	%REC	10	12/17/19 03:39 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	249	5.04	10.1		mg/Kg-dry	50	12/13/19 09:43 PM
Surr: Tetrachlorethene	82.6	0	70-134		%REC	50	12/13/19 09:43 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	0.616	0.0504	0.252		mg/Kg-dry	50	12/13/19 10:45 AM
Ethylbenzene	1.82	0.0504	0.252		mg/Kg-dry	50	12/13/19 10:45 AM
Toluene	5.76	0.0504	0.252		mg/Kg-dry	50	12/13/19 10:45 AM
Xylenes, Total	4.55	0.0504	0.252		mg/Kg-dry	50	12/13/19 10:45 AM
Surr: 1,2-Dichloroethane-d4	103	0	52-149		%REC	50	12/13/19 10:45 AM
Surr: 4-Bromofluorobenzene	104	0	84-118		%REC	50	12/13/19 10:45 AM
Surr: Dibromofluoromethane	98.3	0	65-135		%REC	50	12/13/19 10:45 AM
Surr: Toluene-d8	106	0	84-116		%REC	50	12/13/19 10:45 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	16.9	2.12	5.29		mg/Kg-dry	1	12/16/19 11:44 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	9.80	0	0		WT%	1	12/15/19 01:40 PM

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C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-1@3'
Lab ID: 1912126-04
Collection Date: 12/10/19 10:10 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	8270	339	1130		mg/Kg-dry	100	12/17/19 02:35 PM
TPH-ORO >C28-C35	2440	339	1130		mg/Kg-dry	100	12/17/19 02:35 PM
Surr: Isopropylbenzene	81.8	0	47-142		%REC	100	12/17/19 02:35 PM
Surr: Octacosane	1810	0	25-162	S	%REC	100	12/17/19 02:35 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	38.8	2.02	4.03		mg/Kg-dry	20	12/13/19 06:06 PM
Surr: Tetrachlorethene	91.2	0	70-134		%REC	20	12/13/19 06:06 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0504	0.0504	0.252		mg/Kg-dry	50	12/13/19 11:15 AM
Ethylbenzene	0.0600	0.0504	0.252	J	mg/Kg-dry	50	12/13/19 11:15 AM
Toluene	0.272	0.0504	0.252		mg/Kg-dry	50	12/13/19 11:15 AM
Xylenes, Total	0.197	0.0504	0.252	J	mg/Kg-dry	50	12/13/19 11:15 AM
Surr: 1,2-Dichloroethane-d4	97.5	0	52-149		%REC	50	12/13/19 11:15 AM
Surr: 4-Bromofluorobenzene	97.5	0	84-118		%REC	50	12/13/19 11:15 AM
Surr: Dibromofluoromethane	96.4	0	65-135		%REC	50	12/13/19 11:15 AM
Surr: Toluene-d8	101	0	84-116		%REC	50	12/13/19 11:15 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	26.4	2.23	5.56		mg/Kg-dry	1	12/17/19 12:16 AM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	13.7	0	0		WT%	1	12/15/19 01:40 PM

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RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-1@5'
Lab ID: 1912126-05
Collection Date: 12/10/19 10:20 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	1670	34.0	113		mg/Kg-dry	10	12/17/19 03:57 PM
TPH-ORO >C28-C35	708	34.0	113		mg/Kg-dry	10	12/17/19 03:57 PM
Surr: Isopropylbenzene	84.2	0	47-142		%REC	10	12/17/19 03:57 PM
Surr: Octacosane	637	0	25-162	S	%REC	10	12/17/19 03:57 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	7.11	1.97	3.94		mg/Kg-dry	20	12/13/19 06:31 PM
Surr: Tetrachlorethene	104	0	70-134		%REC	20	12/13/19 06:31 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0493	0.0493	0.246		mg/Kg-dry	50	12/13/19 11:44 AM
Ethylbenzene	<0.0493	0.0493	0.246		mg/Kg-dry	50	12/13/19 11:44 AM
Toluene	<0.0493	0.0493	0.246		mg/Kg-dry	50	12/13/19 11:44 AM
Xylenes, Total	<0.0493	0.0493	0.246		mg/Kg-dry	50	12/13/19 11:44 AM
Surr: 1,2-Dichloroethane-d4	101	0	52-149		%REC	50	12/13/19 11:44 AM
Surr: 4-Bromofluorobenzene	93.3	0	84-118		%REC	50	12/13/19 11:44 AM
Surr: Dibromofluoromethane	99.8	0	65-135		%REC	50	12/13/19 11:44 AM
Surr: Toluene-d8	99.2	0	84-116		%REC	50	12/13/19 11:44 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	28.0	2.26	5.65		mg/Kg-dry	1	12/17/19 12:32 AM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	11.9	0	0		WT%	1	12/15/19 01:40 PM

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RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-2@0-1'
Lab ID: 1912126-06
Collection Date: 12/10/19 10:30 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	4350	160	534		mg/Kg-dry	50	12/17/19 06:24 PM
TPH-ORO >C28-C35	375	160	534	J	mg/Kg-dry	50	12/17/19 06:24 PM
Surr: Isopropylbenzene	173	0	47-142	S	%REC	50	12/17/19 06:24 PM
Surr: Octacosane	710	0	25-162	S	%REC	50	12/17/19 06:24 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	1280	20.3	40.7		mg/Kg-dry	200	12/16/19 06:27 PM
Surr: Tetrachlorethene	46.5	0	70-134	S	%REC	200	12/16/19 06:27 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	1.99	0.0508	0.254		mg/Kg-dry	50	12/13/19 12:13 PM
Ethylbenzene	14.0	0.0508	0.254		mg/Kg-dry	50	12/13/19 12:13 PM
Toluene	34.1	0.203	1.02		mg/Kg-dry	200	12/13/19 07:59 PM
Xylenes, Total	53.6	0.0508	0.254		mg/Kg-dry	50	12/13/19 12:13 PM
Surr: 1,2-Dichloroethane-d4	98.9	0	52-149		%REC	50	12/13/19 12:13 PM
Surr: 1,2-Dichloroethane-d4	99.2	0	52-149		%REC	200	12/13/19 07:59 PM
Surr: 4-Bromofluorobenzene	124	0	84-118	S	%REC	50	12/13/19 12:13 PM
Surr: 4-Bromofluorobenzene	108	0	84-118		%REC	200	12/13/19 07:59 PM
Surr: Dibromofluoromethane	96.9	0	65-135		%REC	50	12/13/19 12:13 PM
Surr: Dibromofluoromethane	97.5	0	65-135		%REC	200	12/13/19 07:59 PM
Surr: Toluene-d8	133	0	84-116	S	%REC	50	12/13/19 12:13 PM
Surr: Toluene-d8	109	0	84-116		%REC	200	12/13/19 07:59 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	440	19.9	49.7		mg/Kg-dry	10	12/16/19 03:28 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	7.58	0	0		WT%	1	12/15/19 01:40 PM

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RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
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DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-2@6'
Lab ID: 1912126-07
Collection Date: 12/10/19 10:55 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	3.34	3.15	10.5	J	mg/Kg-dry	1	12/17/19 11:25 AM
TPH-ORO >C28-C35	<3.15	3.15	10.5		mg/Kg-dry	1	12/17/19 11:25 AM
Surr: Isopropylbenzene	82.3	0	47-142		%REC	1	12/17/19 11:25 AM
Surr: Octacosane	78.5	0	25-162		%REC	1	12/17/19 11:25 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<1.99	1.99	3.98		mg/Kg-dry	20	12/13/19 06:55 PM
Surr: Tetrachlorethene	117	0	70-134		%REC	20	12/13/19 06:55 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0498	0.0498	0.249		mg/Kg-dry	50	12/13/19 12:42 PM
Ethylbenzene	<0.0498	0.0498	0.249		mg/Kg-dry	50	12/13/19 12:42 PM
Toluene	<0.0498	0.0498	0.249		mg/Kg-dry	50	12/13/19 12:42 PM
Xylenes, Total	<0.0498	0.0498	0.249		mg/Kg-dry	50	12/13/19 12:42 PM
Surr: 1,2-Dichloroethane-d4	98.9	0	52-149		%REC	50	12/13/19 12:42 PM
Surr: 4-Bromofluorobenzene	91.1	0	84-118		%REC	50	12/13/19 12:42 PM
Surr: Dibromofluoromethane	97.8	0	65-135		%REC	50	12/13/19 12:42 PM
Surr: Toluene-d8	98.5	0	84-116		%REC	50	12/13/19 12:42 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	1600	21.7	54.4		mg/Kg-dry	10	12/16/19 03:44 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	12.2	0	0		WT%	1	12/15/19 01:40 PM

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DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-2@8'
Lab ID: 1912126-08
Collection Date: 12/10/19 11:05 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	3.81	3.54	11.8	J	mg/Kg-dry	1	12/17/19 11:34 AM
TPH-ORO >C28-C35	<3.54	3.54	11.8		mg/Kg-dry	1	12/17/19 11:34 AM
Surr: Isopropylbenzene	81.5	0	47-142		%REC	1	12/17/19 11:34 AM
Surr: Octacosane	77.1	0	25-162		%REC	1	12/17/19 11:34 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.18	2.18	4.36		mg/Kg-dry	20	12/13/19 07:18 PM
Surr: Tetrachlorethene	115	0	70-134		%REC	20	12/13/19 07:18 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0546	0.0546	0.273		mg/Kg-dry	50	12/13/19 01:11 PM
Ethylbenzene	<0.0546	0.0546	0.273		mg/Kg-dry	50	12/13/19 01:11 PM
Toluene	<0.0546	0.0546	0.273		mg/Kg-dry	50	12/13/19 01:11 PM
Xylenes, Total	<0.0546	0.0546	0.273		mg/Kg-dry	50	12/13/19 01:11 PM
Surr: 1,2-Dichloroethane-d4	98.2	0	52-149		%REC	50	12/13/19 01:11 PM
Surr: 4-Bromofluorobenzene	90.7	0	84-118		%REC	50	12/13/19 01:11 PM
Surr: Dibromofluoromethane	98.2	0	65-135		%REC	50	12/13/19 01:11 PM
Surr: Toluene-d8	100	0	84-116		%REC	50	12/13/19 01:11 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	1170	22.8	56.9		mg/Kg-dry	10	12/16/19 04:00 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	16.8	0	0		WT%	1	12/15/19 01:40 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-3@0-1'
Lab ID: 1912126-09
Collection Date: 12/10/19 11:20 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	78.7	3.23	10.8		mg/Kg-dry	1	12/17/19 06:06 PM
TPH-ORO >C28-C35	25.4	3.23	10.8		mg/Kg-dry	1	12/17/19 06:06 PM
Surr: Isopropylbenzene	76.4	0	47-142		%REC	1	12/17/19 06:06 PM
Surr: Octacosane	134	0	25-162		%REC	1	12/17/19 06:06 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<1.64	1.64	3.28		mg/Kg-dry	20	12/13/19 07:43 PM
Surr: Tetrachlorethene	108	0	70-134		%REC	20	12/13/19 07:43 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0392	0.0392	0.196		mg/Kg-dry	50	12/13/19 01:41 PM
Ethylbenzene	<0.0392	0.0392	0.196		mg/Kg-dry	50	12/13/19 01:41 PM
Toluene	<0.0392	0.0392	0.196		mg/Kg-dry	50	12/13/19 01:41 PM
Xylenes, Total	<0.0392	0.0392	0.196		mg/Kg-dry	50	12/13/19 01:41 PM
Surr: 1,2-Dichloroethane-d4	96.7	0	52-149		%REC	50	12/13/19 01:41 PM
Surr: 4-Bromofluorobenzene	89.6	0	84-118		%REC	50	12/13/19 01:41 PM
Surr: Dibromofluoromethane	99.6	0	65-135		%REC	50	12/13/19 01:41 PM
Surr: Toluene-d8	97.2	0	84-116		%REC	50	12/13/19 01:41 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	98.2	21.1	52.7		mg/Kg-dry	10	12/16/19 04:16 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	9.24	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-3@5'
Lab ID: 1912126-10
Collection Date: 12/10/19 11:40 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	4.26	3.39	11.3	J	mg/Kg-dry	1	12/17/19 11:43 AM
TPH-ORO >C28-C35	<3.39	3.39	11.3		mg/Kg-dry	1	12/17/19 11:43 AM
Surr: Isopropylbenzene	80.7	0	47-142		%REC	1	12/17/19 11:43 AM
Surr: Octacosane	77.5	0	25-162		%REC	1	12/17/19 11:43 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.13	2.13	4.27		mg/Kg-dry	20	12/13/19 08:07 PM
Surr: Tetrachlorethene	124	0	70-134		%REC	20	12/13/19 08:07 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0533	0.0533	0.267		mg/Kg-dry	50	12/13/19 02:10 PM
Ethylbenzene	<0.0533	0.0533	0.267		mg/Kg-dry	50	12/13/19 02:10 PM
Toluene	<0.0533	0.0533	0.267		mg/Kg-dry	50	12/13/19 02:10 PM
Xylenes, Total	<0.0533	0.0533	0.267		mg/Kg-dry	50	12/13/19 02:10 PM
Surr: 1,2-Dichloroethane-d4	96.5	0	52-149		%REC	50	12/13/19 02:10 PM
Surr: 4-Bromofluorobenzene	94.6	0	84-118		%REC	50	12/13/19 02:10 PM
Surr: Dibromofluoromethane	96.2	0	65-135		%REC	50	12/13/19 02:10 PM
Surr: Toluene-d8	102	0	84-116		%REC	50	12/13/19 02:10 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	1180	22.1	55.3		mg/Kg-dry	10	12/16/19 04:32 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	13.0	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

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J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-4@0-1'
Lab ID: 1912126-11
Collection Date: 12/10/19 11:45 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	6070	317	1060		mg/Kg-dry	100	12/17/19 06:33 PM
TPH-ORO >C28-C35	325	317	1060	J	mg/Kg-dry	100	12/17/19 06:33 PM
Surr: Isopropylbenzene	169	0	47-142	S	%REC	100	12/17/19 06:33 PM
Surr: Octacosane	874	0	25-162	S	%REC	100	12/17/19 06:33 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	1080	20.1	40.1		mg/Kg-dry	200	12/13/19 10:30 PM
Surr: Tetrachlorethene	94.6	0	70-134		%REC	200	12/13/19 10:30 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	0.160	0.0502	0.251	J	mg/Kg-dry	50	12/13/19 02:39 PM
Ethylbenzene	4.44	0.0502	0.251		mg/Kg-dry	50	12/13/19 02:39 PM
Toluene	5.15	0.0502	0.251		mg/Kg-dry	50	12/13/19 02:39 PM
Xylenes, Total	19.5	0.0502	0.251		mg/Kg-dry	50	12/13/19 02:39 PM
Surr: 1,2-Dichloroethane-d4	98.4	0	52-149		%REC	50	12/13/19 02:39 PM
Surr: 4-Bromofluorobenzene	116	0	84-118		%REC	50	12/13/19 02:39 PM
Surr: Dibromofluoromethane	97.9	0	65-135		%REC	50	12/13/19 02:39 PM
Surr: Toluene-d8	112	0	84-116		%REC	50	12/13/19 02:39 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	11.8	2.14	5.35		mg/Kg-dry	1	12/17/19 12:48 AM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	7.06	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-4@6'
Lab ID: 1912126-12
Collection Date: 12/10/19 12:10 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	29.2	3.15	10.5		mg/Kg-dry	1	12/17/19 11:52 AM
TPH-ORO >C28-C35	3.73	3.15	10.5	J	mg/Kg-dry	1	12/17/19 11:52 AM
Surr: Isopropylbenzene	80.6	0	47-142		%REC	1	12/17/19 11:52 AM
Surr: Octacosane	91.3	0	25-162		%REC	1	12/17/19 11:52 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.10	2.10	4.19		mg/Kg-dry	20	12/13/19 08:30 PM
Surr: Tetrachlorethene	122	0	70-134		%REC	20	12/13/19 08:30 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0524	0.0524	0.262		mg/Kg-dry	50	12/13/19 03:08 PM
Ethylbenzene	<0.0524	0.0524	0.262		mg/Kg-dry	50	12/13/19 03:08 PM
Toluene	<0.0524	0.0524	0.262		mg/Kg-dry	50	12/13/19 03:08 PM
Xylenes, Total	<0.0524	0.0524	0.262		mg/Kg-dry	50	12/13/19 03:08 PM
Surr: 1,2-Dichloroethane-d4	99.7	0	52-149		%REC	50	12/13/19 03:08 PM
Surr: 4-Bromofluorobenzene	91.6	0	84-118		%REC	50	12/13/19 03:08 PM
Surr: Dibromofluoromethane	98.6	0	65-135		%REC	50	12/13/19 03:08 PM
Surr: Toluene-d8	98.9	0	84-116		%REC	50	12/13/19 03:08 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	359	21.2	53.1		mg/Kg-dry	10	12/16/19 06:40 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	6.81	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-4@11'
Lab ID: 1912126-13
Collection Date: 12/10/19 12:35 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	4.18	3.20	10.7	J	mg/Kg-dry	1	12/17/19 12:01 PM
TPH-ORO >C28-C35	<3.20	3.20	10.7		mg/Kg-dry	1	12/17/19 12:01 PM
Surr: Isopropylbenzene	78.8	0	47-142		%REC	1	12/17/19 12:01 PM
Surr: Octacosane	77.4	0	25-162		%REC	1	12/17/19 12:01 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.06	2.06	4.11		mg/Kg-dry	20	12/16/19 12:52 PM
Surr: Tetrachlorethene	113	0	70-134		%REC	20	12/16/19 12:52 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0514	0.0514	0.257		mg/Kg-dry	50	12/13/19 03:37 PM
Ethylbenzene	<0.0514	0.0514	0.257		mg/Kg-dry	50	12/13/19 03:37 PM
Toluene	<0.0514	0.0514	0.257		mg/Kg-dry	50	12/13/19 03:37 PM
Xylenes, Total	<0.0514	0.0514	0.257		mg/Kg-dry	50	12/13/19 03:37 PM
Surr: 1,2-Dichloroethane-d4	97.8	0	52-149		%REC	50	12/13/19 03:37 PM
Surr: 4-Bromofluorobenzene	92.5	0	84-118		%REC	50	12/13/19 03:37 PM
Surr: Dibromofluoromethane	98.2	0	65-135		%REC	50	12/13/19 03:37 PM
Surr: Toluene-d8	99.6	0	84-116		%REC	50	12/13/19 03:37 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	634	19.9	49.8		mg/Kg-dry	10	12/16/19 06:56 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	6.85	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-5@0-1'
Lab ID: 1912126-14
Collection Date: 12/10/19 12:42 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	4990	319	1060		mg/Kg-dry	100	12/17/19 06:42 PM
TPH-ORO >C28-C35	<319	319	1060		mg/Kg-dry	100	12/17/19 06:42 PM
Surr: Isopropylbenzene	218	0	47-142	S	%REC	100	12/17/19 06:42 PM
Surr: Octacosane	623	0	25-162	S	%REC	100	12/17/19 06:42 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	2470	46.9	93.9		mg/Kg-dry	500	12/17/19 12:01 AM
Surr: Tetrachlorethene	90.4	0	70-134		%REC	500	12/17/19 12:01 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	2.23	0.0469	0.235		mg/Kg-dry	50	12/13/19 04:06 PM
Ethylbenzene	14.5	0.0469	0.235		mg/Kg-dry	50	12/13/19 04:06 PM
Toluene	33.6	0.469	2.35		mg/Kg-dry	500	12/14/19 10:43 PM
Xylenes, Total	55.3	0.0469	0.235		mg/Kg-dry	50	12/13/19 04:06 PM
Surr: 1,2-Dichloroethane-d4	96.9	0	52-149		%REC	50	12/13/19 04:06 PM
Surr: 1,2-Dichloroethane-d4	88.1	0	52-149		%REC	500	12/14/19 10:43 PM
Surr: 4-Bromofluorobenzene	128	0	84-118	S	%REC	50	12/13/19 04:06 PM
Surr: 4-Bromofluorobenzene	98.3	0	84-118		%REC	500	12/14/19 10:43 PM
Surr: Dibromofluoromethane	97.3	0	65-135		%REC	50	12/13/19 04:06 PM
Surr: Dibromofluoromethane	99.5	0	65-135		%REC	500	12/14/19 10:43 PM
Surr: Toluene-d8	141	0	84-116	S	%REC	50	12/13/19 04:06 PM
Surr: Toluene-d8	101	0	84-116		%REC	500	12/14/19 10:43 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	15.4	2.20	5.51		mg/Kg-dry	1	12/17/19 10:47 AM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	10.3	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

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DF- Dilution Factor
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See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-5@6'
Lab ID: 1912126-15
Collection Date: 12/10/19 12:52 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	3.47	3.23	10.8	J	mg/Kg-dry	1	12/17/19 12:10 PM
TPH-ORO >C28-C35	<3.23	3.23	10.8		mg/Kg-dry	1	12/17/19 12:10 PM
Surr: Isopropylbenzene	86.1	0	47-142		%REC	1	12/17/19 12:10 PM
Surr: Octacosane	80.0	0	25-162		%REC	1	12/17/19 12:10 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.29	2.29	4.58		mg/Kg-dry	20	12/16/19 01:16 PM
Surr: Tetrachlorethene	122	0	70-134		%REC	20	12/16/19 01:16 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0573	0.0573	0.287		mg/Kg-dry	50	12/13/19 04:35 PM
Ethylbenzene	<0.0573	0.0573	0.287		mg/Kg-dry	50	12/13/19 04:35 PM
Toluene	<0.0573	0.0573	0.287		mg/Kg-dry	50	12/13/19 04:35 PM
Xylenes, Total	<0.0573	0.0573	0.287		mg/Kg-dry	50	12/13/19 04:35 PM
Surr: 1,2-Dichloroethane-d4	95.5	0	52-149		%REC	50	12/13/19 04:35 PM
Surr: 4-Bromofluorobenzene	91.6	0	84-118		%REC	50	12/13/19 04:35 PM
Surr: Dibromofluoromethane	95.3	0	65-135		%REC	50	12/13/19 04:35 PM
Surr: Toluene-d8	97.7	0	84-116		%REC	50	12/13/19 04:35 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	167	21.8	54.6		mg/Kg-dry	10	12/16/19 07:28 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	8.73	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-5@11'
Lab ID: 1912126-16
Collection Date: 12/10/19 01:02 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	3.76	3.10	10.3	J	mg/Kg-dry	1	12/17/19 12:19 PM
TPH-ORO >C28-C35	<3.10	3.10	10.3		mg/Kg-dry	1	12/17/19 12:19 PM
Surr: Isopropylbenzene	78.9	0	47-142		%REC	1	12/17/19 12:19 PM
Surr: Octacosane	74.3	0	25-162		%REC	1	12/17/19 12:19 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.33	2.33	4.66		mg/Kg-dry	20	12/16/19 01:40 PM
Surr: Tetrachlorethene	114	0	70-134		%REC	20	12/16/19 01:40 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0583	0.0583	0.291		mg/Kg-dry	50	12/13/19 05:05 PM
Ethylbenzene	<0.0583	0.0583	0.291		mg/Kg-dry	50	12/13/19 05:05 PM
Toluene	<0.0583	0.0583	0.291		mg/Kg-dry	50	12/13/19 05:05 PM
Xylenes, Total	<0.0583	0.0583	0.291		mg/Kg-dry	50	12/13/19 05:05 PM
Surr: 1,2-Dichloroethane-d4	99.3	0	52-149		%REC	50	12/13/19 05:05 PM
Surr: 4-Bromofluorobenzene	91.7	0	84-118		%REC	50	12/13/19 05:05 PM
Surr: Dibromofluoromethane	103	0	65-135		%REC	50	12/13/19 05:05 PM
Surr: Toluene-d8	96.6	0	84-116		%REC	50	12/13/19 05:05 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	168	20.6	51.5		mg/Kg-dry	10	12/16/19 07:44 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	7.57	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

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N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-6@0-1'
Lab ID: 1912126-17
Collection Date: 12/10/19 01:10 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	11500	354	1180		mg/Kg-dry	100	12/17/19 06:51 PM
TPH-ORO >C28-C35	1400	354	1180		mg/Kg-dry	100	12/17/19 06:51 PM
Surr: Isopropylbenzene	564	0	47-142	S	%REC	100	12/17/19 06:51 PM
Surr: Octacosane	1450	0	25-162	S	%REC	100	12/17/19 06:51 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	14500	224	447		mg/Kg-dry	2000	12/17/19 12:25 AM
Surr: Tetrachlorethene	90.0	0	70-134		%REC	2000	12/17/19 12:25 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	107	2.24	11.2		mg/Kg-dry	2000	12/14/19 11:11 PM
Ethylbenzene	102	2.24	11.2		mg/Kg-dry	2000	12/14/19 11:11 PM
Toluene	374	2.24	11.2		mg/Kg-dry	2000	12/14/19 11:11 PM
Xylenes, Total	336	2.24	11.2		mg/Kg-dry	2000	12/14/19 11:11 PM
Surr: 1,2-Dichloroethane-d4	88.6	0	52-149		%REC	2000	12/14/19 11:11 PM
Surr: 4-Bromofluorobenzene	94.8	0	84-118		%REC	2000	12/14/19 11:11 PM
Surr: Dibromofluoromethane	98.0	0	65-135		%REC	2000	12/14/19 11:11 PM
Surr: Toluene-d8	99.8	0	84-116		%REC	2000	12/14/19 11:11 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	19.9	2.25	5.61		mg/Kg-dry	1	12/17/19 11:03 AM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	17.8	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-6@7'
Lab ID: 1912126-18
Collection Date: 12/10/19 01:22 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	22.5	2.99	9.98		mg/Kg-dry	1	12/17/19 12:28 PM
TPH-ORO >C28-C35	<2.99	2.99	9.98		mg/Kg-dry	1	12/17/19 12:28 PM
Surr: Isopropylbenzene	83.8	0	47-142		%REC	1	12/17/19 12:28 PM
Surr: Octacosane	92.3	0	25-162		%REC	1	12/17/19 12:28 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.26	2.26	4.53		mg/Kg-dry	20	12/16/19 02:27 PM
Surr: Tetrachlorethene	118	0	70-134		%REC	20	12/16/19 02:27 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0566	0.0566	0.283		mg/Kg-dry	50	12/14/19 09:18 PM
Ethylbenzene	<0.0566	0.0566	0.283		mg/Kg-dry	50	12/14/19 09:18 PM
Toluene	<0.0566	0.0566	0.283		mg/Kg-dry	50	12/14/19 09:18 PM
Xylenes, Total	<0.0566	0.0566	0.283		mg/Kg-dry	50	12/14/19 09:18 PM
Surr: 1,2-Dichloroethane-d4	90.7	0	52-149		%REC	50	12/14/19 09:18 PM
Surr: 4-Bromofluorobenzene	92.6	0	84-118		%REC	50	12/14/19 09:18 PM
Surr: Dibromofluoromethane	100	0	65-135		%REC	50	12/14/19 09:18 PM
Surr: Toluene-d8	97.0	0	84-116		%REC	50	12/14/19 09:18 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	140	19.8	49.6		mg/Kg-dry	10	12/16/19 08:16 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	5.76	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

ND - Not Detected at the SDL
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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-6@12'
Lab ID: 1912126-19
Collection Date: 12/10/19 01:32 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<2.99	2.99	9.98		mg/Kg-dry	1	12/17/19 12:37 PM
TPH-ORO >C28-C35	<2.99	2.99	9.98		mg/Kg-dry	1	12/17/19 12:37 PM
Surr: Isopropylbenzene	83.5	0	47-142		%REC	1	12/17/19 12:37 PM
Surr: Octacosane	76.6	0	25-162		%REC	1	12/17/19 12:37 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<1.91	1.91	3.82		mg/Kg-dry	20	12/16/19 02:51 PM
Surr: Tetrachlorethene	109	0	70-134		%REC	20	12/16/19 02:51 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0530	0.0530	0.265		mg/Kg-dry	50	12/14/19 09:47 PM
Ethylbenzene	<0.0530	0.0530	0.265		mg/Kg-dry	50	12/14/19 09:47 PM
Toluene	<0.0530	0.0530	0.265		mg/Kg-dry	50	12/14/19 09:47 PM
Xylenes, Total	<0.0530	0.0530	0.265		mg/Kg-dry	50	12/14/19 09:47 PM
Surr: 1,2-Dichloroethane-d4	89.1	0	52-149		%REC	50	12/14/19 09:47 PM
Surr: 4-Bromofluorobenzene	90.7	0	84-118		%REC	50	12/14/19 09:47 PM
Surr: Dibromofluoromethane	99.0	0	65-135		%REC	50	12/14/19 09:47 PM
Surr: Toluene-d8	95.7	0	84-116		%REC	50	12/14/19 09:47 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	51.9	19.5	48.7		mg/Kg-dry	10	12/16/19 08:32 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	3.36	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-7@0-1'
Lab ID: 1912126-20
Collection Date: 12/10/19 02:30 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	6960	339	1130		mg/Kg-dry	100	12/17/19 07:00 PM
TPH-ORO >C28-C35	424	339	1130	J	mg/Kg-dry	100	12/17/19 07:00 PM
Surr: Isopropylbenzene	305	0	47-142	S	%REC	100	12/17/19 07:00 PM
Surr: Octacosane	831	0	25-162	S	%REC	100	12/17/19 07:00 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	6630	102	205		mg/Kg-dry	1000	12/17/19 12:49 AM
Surr: Tetrachlorethene	86.2	0	70-134		%REC	1000	12/17/19 12:49 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	10.3	0.0511	0.256		mg/Kg-dry	50	12/13/19 07:01 PM
Ethylbenzene	34.5	0.511	2.56		mg/Kg-dry	500	12/14/19 11:40 PM
Toluene	104	0.511	2.56		mg/Kg-dry	500	12/14/19 11:40 PM
Xylenes, Total	142	0.511	2.56		mg/Kg-dry	500	12/14/19 11:40 PM
Surr: 1,2-Dichloroethane-d4	98.5	0	52-149		%REC	50	12/13/19 07:01 PM
Surr: 1,2-Dichloroethane-d4	86.1	0	52-149		%REC	500	12/14/19 11:40 PM
Surr: 4-Bromofluorobenzene	98.1	0	84-118		%REC	500	12/14/19 11:40 PM
Surr: 4-Bromofluorobenzene	147	0	84-118	S	%REC	50	12/13/19 07:01 PM
Surr: Dibromofluoromethane	97.6	0	65-135		%REC	500	12/14/19 11:40 PM
Surr: Dibromofluoromethane	96.9	0	65-135		%REC	50	12/13/19 07:01 PM
Surr: Toluene-d8	128	0	84-116	S	%REC	50	12/13/19 07:01 PM
Surr: Toluene-d8	105	0	84-116		%REC	500	12/14/19 11:40 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	27.6	2.21	5.53		mg/Kg-dry	1	12/17/19 11:19 AM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	14.4	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

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RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
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DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Project No:
Lab Order: 1912126

Client Sample ID: TT-7@5'
Lab ID: 1912126-21
Collection Date: 12/10/19 02:50 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	3.32	3.02	10.1	J	mg/Kg-dry	1	12/17/19 12:46 PM
TPH-ORO >C28-C35	<3.02	3.02	10.1		mg/Kg-dry	1	12/17/19 12:46 PM
Surr: Isopropylbenzene	80.8	0	47-142		%REC	1	12/17/19 12:46 PM
Surr: Octacosane	80.5	0	25-162		%REC	1	12/17/19 12:46 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.01	2.01	4.03		mg/Kg-dry	20	12/16/19 03:15 PM
Surr: Tetrachlorethene	116	0	70-134		%REC	20	12/16/19 03:15 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0503	0.0503	0.252		mg/Kg-dry	50	12/14/19 10:15 PM
Ethylbenzene	<0.0503	0.0503	0.252		mg/Kg-dry	50	12/14/19 10:15 PM
Toluene	<0.0503	0.0503	0.252		mg/Kg-dry	50	12/14/19 10:15 PM
Xylenes, Total	<0.0503	0.0503	0.252		mg/Kg-dry	50	12/14/19 10:15 PM
Surr: 1,2-Dichloroethane-d4	86.8	0	52-149		%REC	50	12/14/19 10:15 PM
Surr: 4-Bromofluorobenzene	91.1	0	84-118		%REC	50	12/14/19 10:15 PM
Surr: Dibromofluoromethane	94.5	0	65-135		%REC	50	12/14/19 10:15 PM
Surr: Toluene-d8	94.5	0	84-116		%REC	50	12/14/19 10:15 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	1500	20.9	52.3		mg/Kg-dry	10	12/16/19 09:04 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	6.25	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

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DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_191127A

Sample ID: **DCS-93833** Batch ID: **93833** TestNo: **M8015D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GC15_191127A** Analysis Date: **11/27/2019 10:46:10 A** Prep Date: **11/22/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	9.76	10.0	15.00	0	65.1	20	400	0	0	
Surr: Isopropylbenzene	6.02		7.500		80.2	47	142	0	0	
Surr: Octacosane	6.58		7.500		87.7	25	162	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_191217A

The QC data in batch 94127 applies to the following samples: 1912126-02C, 1912126-03C, 1912126-04C, 1912126-05C, 1912126-06C, 1912126-07C, 1912126-08C, 1912126-09C, 1912126-10C, 1912126-11C, 1912126-12C, 1912126-13C, 1912126-14C, 1912126-15C, 1912126-16C, 1912126-17C, 1912126-18C, 1912126-19C, 1912126-20C, 1912126-21C

Sample ID: **MB-94127** Batch ID: **94127** TestNo: **M8015D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC15_191217A** Analysis Date: **12/17/2019 10:25:08 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<3.00	10.0								
TPH-ORO >C28-C35	<3.00	10.0								
Surr: Isopropylbenzene	5.68		7.500		75.7	47	142			
Surr: Octacosane	5.85		7.500		78.0	25	162			

Sample ID: **LCS-94127** Batch ID: **94127** TestNo: **M8015D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC15_191217A** Analysis Date: **12/17/2019 10:34:11 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	104	10.0	125.0	0	82.9	50	114			
Surr: Isopropylbenzene	6.61		7.500		88.1	47	142			
Surr: Octacosane	5.91		7.500		78.8	25	162			

Sample ID: **1912126-12CMS** Batch ID: **94127** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC15_191217A** Analysis Date: **12/17/2019 10:52:19 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	141	10.3	129.0	29.18	86.6	50	114			
Surr: Isopropylbenzene	6.29		7.739		81.3	47	142			
Surr: Octacosane	7.25		7.739		93.6	25	162			

Sample ID: **1912126-12CMSD** Batch ID: **94127** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC15_191217A** Analysis Date: **12/17/2019 11:01:22 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	141	10.3	128.5	29.18	86.9	50	114	0.043	30	
Surr: Isopropylbenzene	6.59		7.709		85.5	47	142	0	0	
Surr: Octacosane	7.53		7.709		97.7	25	162	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_191217A

Sample ID: **ICV-191217**	Batch ID: **R107964**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC15_191217A**	Analysis Date: **12/17/2019 9:39:37 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	480	10.0	500.0	0	96.0	80	120			
Surr: Isopropylbenzene	27.9		25.00		111	80	120			
Surr: Octacosane	23.1		25.00		92.4	80	120			

Sample ID: **CCV1-191217**	Batch ID: **R107964**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_191217A**	Analysis Date: **12/17/2019 7:12:02 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	251	10.0	250.0	0	101	80	120			
Surr: Isopropylbenzene	14.9		12.50		119	80	120			
Surr: Octacosane	11.3		12.50		90.6	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191017A

Sample ID: **DCS-93268** Batch ID: **93268** TestNo: **M8015V** Units: **mg/Kg**
SampType: **DCS** Run ID: **GC4_191017A** Analysis Date: **10/17/2019 7:45:54 PM** Prep Date: **10/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	0.173	0.200	0.2000	0	86.7	31	161	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191213A

The QC data in batch 94096 applies to the following samples: 1912126-02B, 1912126-03B, 1912126-04B, 1912126-05B, 1912126-06B, 1912126-07B, 1912126-08B, 1912126-09B, 1912126-10B, 1912126-11B, 1912126-12B

Sample ID: **LCS-94096 MEOH**	Batch ID: **94096**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC4_191213A**	Analysis Date: **12/13/2019 10:25:30 A**	Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.87	0.200	2.500	0	115	68	126			
Surr: Tetrachlorethene	0.441		0.4000		110	70	134			

Sample ID: **MB-94096 MEOH**	Batch ID: **94096**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC4_191213A**	Analysis Date: **12/13/2019 11:37:29 A**	Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.100	0.200								
Surr: Tetrachlorethene	0.448		0.4000		112	70	134			

Sample ID: **1912126-02BMS**	Batch ID: **94096**	TestNo: **M8015V**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GC4_191213A**	Analysis Date: **12/13/2019 8:54:56 PM**	Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	43.6	3.81	47.62	0	91.6	68	126			
Surr: Tetrachlorethene	8.26		7.619		108	70	134			

Sample ID: **1912126-02BMSD**	Batch ID: **94096**	TestNo: **M8015V**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GC4_191213A**	Analysis Date: **12/13/2019 9:18:52 PM**	Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	49.4	3.81	47.62	0	104	68	126	12.4	30	
Surr: Tetrachlorethene	8.81		7.619		116	70	134	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191213A

Sample ID: **ICV-191213**	Batch ID: **R107910**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC4_191213A**	Analysis Date: **12/13/2019 10:01:28 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	5.36	0.200	5.000	0	107	80	120			
Surr: Tetrachlorethene	0.447		0.4000		112	70	134			

Sample ID: **CCV1-191213**	Batch ID: **R107910**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191213A**	Analysis Date: **12/13/2019 4:55:21 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.43	0.200	2.500	0	97.2	80	120			
Surr: Tetrachlorethene	0.433		0.4000		108	70	134			

Sample ID: **CCV2-191213**	Batch ID: **R107910**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191213A**	Analysis Date: **12/13/2019 11:42:58 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.54	0.200	2.500	0	101	80	120			
Surr: Tetrachlorethene	0.425		0.4000		106	70	134			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191216A

The QC data in batch 94124 applies to the following samples: 1912126-06B, 1912126-13B, 1912126-14B, 1912126-15B, 1912126-16B, 1912126-17B, 1912126-18B, 1912126-19B, 1912126-20B, 1912126-21B

Sample ID: **LCS-94124 MEOH**	Batch ID: **94124**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 11:16:31 A**	Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.74	0.200	2.500	0	109	68	126			
Surr: Tetrachlorethene	0.376		0.4000		94.1	70	134			

Sample ID: **MB-94124 MEOH**	Batch ID: **94124**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 12:28:10 P**	Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.100	0.200								
Surr: Tetrachlorethene	0.436		0.4000		109	70	134			

Sample ID: **1912126-13BMS**	Batch ID: **94124**	TestNo: **M8015V**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 10:49:43 P**	Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	51.9	4.11	51.41	0	101	68	126			
Surr: Tetrachlorethene	9.36		8.226		114	70	134			

Sample ID: **1912126-13BMSD**	Batch ID: **94124**	TestNo: **M8015V**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 11:13:43 P**	Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	57.9	4.11	51.41	0	113	68	126	11.0	30	
Surr: Tetrachlorethene	9.38		8.226		114	70	134	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191216A

Sample ID: **ICV-191216**	Batch ID: **R107950**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 10:52:47 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4.76	0.200	5.000	0	95.2	80	120			
Surr: Tetrachlorethene	0.356		0.4000		88.9	70	134			

Sample ID: **CCV1-191216**	Batch ID: **R107950**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 5:39:07 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.50	0.200	2.500	0	100	80	120			
Surr: Tetrachlorethene	0.444		0.4000		111	70	134			

Sample ID: **CCV2-191216**	Batch ID: **R107950**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 11:37:32 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.73	0.200	2.500	0	109	80	120			
Surr: Tetrachlorethene	0.454		0.4000		114	70	134			

Sample ID: **CCV3-191216**	Batch ID: **R107950**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191216A**	Analysis Date: **12/17/2019 1:36:56 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.53	0.200	2.500	0	101	80	120			
Surr: Tetrachlorethene	0.393		0.4000		98.3	70	134			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_191118A

Sample ID: **DCS-93749** Batch ID: **93749** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GCMS1_191118A** Analysis Date: **11/18/2019 1:07:00 PM** Prep Date: **11/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00273	0.00500	0.00232	0	118	10	400	0	0	
Ethylbenzene	0.00215	0.00500	0.00232	0	92.7	10	400	0	0	
Toluene	0.00281	0.00500	0.00232	0	121	10	400	0	0	
Total Xylenes	0.00626	0.00500	0.00696	0	89.9	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_191213A

The QC data in batch 94095 applies to the following samples: 1912126-02A, 1912126-03A, 1912126-04A, 1912126-05A, 1912126-06A, 1912126-07A, 1912126-08A, 1912126-09A, 1912126-10A, 1912126-11A, 1912126-12A, 1912126-13A, 1912126-14A, 1912126-15A, 1912126-16A, 1912126-17A, 1912126-18A, 1912126-19A, 1912126-20A, 1912126-21A

Sample ID: **LCS-94095 MEOH** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 9:18:00 AM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.27	0.250	1.16	0	109	73	126			
Ethylbenzene	1.26	0.250	1.16	0	108	74	127			
Toluene	1.30	0.250	1.16	0	112	71	127			
Xylenes, Total	3.69	0.250	3.48	0	106	75	125			
Surr: 1,2-Dichloroethane-d4	2550		2500		102	52	149			
Surr: 4-Bromofluorobenzene	2380		2500		95.2	84	118			
Surr: Dibromofluoromethane	2520		2500		101	65	135			
Surr: Toluene-d8	2450		2500		98.0	84	116			

Sample ID: **MB-94095 MEOH** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 9:47:00 AM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.0500	0.250								
Ethylbenzene	<0.0500	0.250								
Toluene	<0.0500	0.250								
Xylenes, Total	<0.0500	0.250								
Surr: 1,2-Dichloroethane-d4	2450		2500		98.0	52	149			
Surr: 4-Bromofluorobenzene	2290		2500		91.8	84	118			
Surr: Dibromofluoromethane	2470		2500		98.7	65	135			
Surr: Toluene-d8	2470		2500		98.8	84	116			

Sample ID: **1912126-02AMS** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 8:28:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.16	0.238	1.10	0	105	73	126			
Ethylbenzene	1.14	0.238	1.10	0	104	74	127			
Toluene	1.25	0.238	1.10	0	113	71	127			
Xylenes, Total	3.39	0.238	3.31	0	102	75	125			
Surr: 1,2-Dichloroethane-d4	2400		2381		101	52	149			
Surr: 4-Bromofluorobenzene	2210		2381		92.8	84	118			
Surr: Dibromofluoromethane	2360		2381		99.2	65	135			
Surr: Toluene-d8	2320		2381		97.3	84	116			

Sample ID: **1912126-02AMSD** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 8:57:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_191213A

Sample ID: **1912126-02AMSD** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 8:57:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.17	0.238	1.10	0	106	73	126	0.589	30	
Ethylbenzene	1.14	0.238	1.10	0	103	74	127	0.104	30	
Toluene	1.21	0.238	1.10	0	110	71	127	2.87	30	
Xylenes, Total	3.36	0.238	3.31	0	101	75	125	1.03	30	
Surr: 1,2-Dichloroethane-d4	2380		2381		100	52	149	0	0	
Surr: 4-Bromofluorobenzene	2180		2381		91.4	84	118	0	0	
Surr: Dibromofluoromethane	2410		2381		101	65	135	0	0	
Surr: Toluene-d8	2340		2381		98.3	84	116	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_191213A

Sample ID: **ICV-191213** Batch ID: **R107906** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 8:49:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0498	0.00500	0.0464	0	107	80	120			
Ethylbenzene	0.0489	0.00500	0.0464	0	105	80	120			
Toluene	0.0519	0.00500	0.0464	0	112	80	120			
Xylenes, Total	0.147	0.00500	0.139	0	105	80	120			
Surr: 1,2-Dichloroethane-d4	48.4		50.00		96.7	52	149			
Surr: 4-Bromofluorobenzene	46.8		50.00		93.7	84	118			
Surr: Dibromofluoromethane	49.6		50.00		99.2	65	135			
Surr: Toluene-d8	49.5		50.00		98.9	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191118A

Sample ID: **DCS-93748** Batch ID: **93748** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GCMS2_191118A** Analysis Date: **11/18/2019 1:08:00 PM** Prep Date: **11/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00284	0.00500	0.00232	0	122	10	400	0	0	
Ethylbenzene	0.00243	0.00500	0.00232	0	105	10	400	0	0	
Toluene	0.00273	0.00500	0.00232	0	118	10	400	0	0	
Total Xylenes	0.00686	0.00500	0.00696	0	98.6	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191214B

The QC data in batch 94095 applies to the following samples: 1912126-02A, 1912126-03A, 1912126-04A, 1912126-05A, 1912126-06A, 1912126-07A, 1912126-08A, 1912126-09A, 1912126-10A, 1912126-11A, 1912126-12A, 1912126-13A, 1912126-14A, 1912126-15A, 1912126-16A, 1912126-17A, 1912126-18A, 1912126-19A, 1912126-20A, 1912126-21A

Sample ID: **SB-191214** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **SBLK** Run ID: **GCMS2_191214B** Analysis Date: **12/14/2019 3:33:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.0500	0.250	0							
Ethylbenzene	<0.0500	0.250	0							
Toluene	<0.0500	0.250	0							
Xylenes, Total	<0.0500	0.250	0							
Surr: 1,2-Dichloroethane-d4	2280		0							
Surr: 4-Bromofluorobenzene	2230		0							
Surr: Dibromofluoromethane	2440		0							
Surr: Toluene-d8	2290		0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191214B

Sample ID: **ICV-191214** Batch ID: **R107914** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191214B** Analysis Date: **12/14/2019 2:36:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0493	0.00500	0.0464	0	106	80	120			
Ethylbenzene	0.0516	0.00500	0.0464	0	111	80	120			
Toluene	0.0515	0.00500	0.0464	0	111	80	120			
Xylenes, Total	0.151	0.00500	0.139	0	109	80	120			
Surr: 1,2-Dichloroethane-d4	42.4		50.00		84.9	52	149			
Surr: 4-Bromofluorobenzene	46.6		50.00		93.2	84	118			
Surr: Dibromofluoromethane	48.3		50.00		96.7	65	135			
Surr: Toluene-d8	47.8		50.00		95.5	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191121A

Sample ID: **DCS-93791** Batch ID: **93791** TestNo: **SW8260D** Units: **mg/L**
SampType: **DCS** Run ID: **GCMS3_191121A** Analysis Date: **11/21/2019 9:51:00 AM** Prep Date: **11/21/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.000529	0.00200	0.000464	0	114	10	400	0	0	
Ethylbenzene	0.000528	0.00600	0.000464	0	114	10	400	0	0	
Toluene	0.000546	0.00600	0.000464	0	118	10	400	0	0	
Total Xylenes	0.00161	0.00600	0.00139	0	116	10	400	0	0	
Surr: 1,2-Dichloroethane-d4	44.7		50.00		89.5	72	119	0	0	
Surr: 4-Bromofluorobenzene	48.3		50.00		96.5	76	119	0	0	
Surr: Dibromofluoromethane	50.9		50.00		102	85	115	0	0	
Surr: Toluene-d8	48.9		50.00		97.8	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

The QC data in batch 94118 applies to the following samples: 1912126-01A

Sample ID: **LCS-94118** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:33:00 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0456	0.00200	0.0464	0	98.4	81	122			
Ethylbenzene	0.0454	0.00600	0.0464	0	97.9	73	127			
Toluene	0.0461	0.00600	0.0464	0	99.4	77	122			
Total Xylenes	0.135	0.00600	0.139	0	96.8	80	121			
Surr: 1,2-Dichloroethane-d4	49.8		50.00		99.5	72	119			
Surr: 4-Bromofluorobenzene	48.3		50.00		96.6	76	119			
Surr: Dibromofluoromethane	50.6		50.00		101	85	115			
Surr: Toluene-d8	49.8		50.00		99.7	81	120			

Sample ID: **MB-94118** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:59:00 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000800	0.00200								
Ethylbenzene	<0.00200	0.00600								
Toluene	<0.00200	0.00600								
Total Xylenes	<0.00200	0.00600								
Surr: 1,2-Dichloroethane-d4	49.4		50.00		98.8	72	119			
Surr: 4-Bromofluorobenzene	49.3		50.00		98.6	76	119			
Surr: Dibromofluoromethane	50.4		50.00		101	85	115			
Surr: Toluene-d8	50.0		50.00		100	81	120			

Sample ID: **1912145-12AMS** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:32:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.70	0.100	2.32	0.562	92.0	81	122			
Ethylbenzene	2.14	0.300	2.32	0	92.0	73	127			
Toluene	2.14	0.300	2.32	0	92.3	77	122			
Total Xylenes	6.20	0.300	6.95	0	89.2	80	121			
Surr: 1,2-Dichloroethane-d4	2460		2500		98.2	72	119			
Surr: 4-Bromofluorobenzene	2390		2500		95.7	76	119			
Surr: Dibromofluoromethane	2520		2500		101	85	115			
Surr: Toluene-d8	2480		2500		99.1	81	120			

Sample ID: **1912145-12AMSD** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:57:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.70	0.100	2.32	0.562	92.3	81	122	0.216	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

Sample ID: **1912145-12AMSD** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:57:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	2.14	0.300	2.32	0	92.4	73	127	0.425	20	
Toluene	2.16	0.300	2.32	0	93.2	77	122	0.964	20	
Total Xylenes	6.42	0.300	6.95	0	92.4	80	121	3.59	20	
Surr: 1,2-Dichloroethane-d4	2480		2500		99.4	72	119	0	0	
Surr: 4-Bromofluorobenzene	2420		2500		97.0	76	119	0	0	
Surr: Dibromofluoromethane	2520		2500		101	85	115	0	0	
Surr: Toluene-d8	2490		2500		99.4	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

Sample ID: **ICV-191217** Batch ID: **R107983** TestNo: **SW8260D** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:07:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0898	0.00200	0.0928	0	96.8	80	120			
Ethylbenzene	0.0900	0.00600	0.0928	0	97.0	80	120			
Toluene	0.0905	0.00600	0.0928	0	97.5	80	120			
Total Xylenes	0.261	0.00600	0.278	0	93.9	80	120			
Surr: 1,2-Dichloroethane-d4	49.3		50.00		98.6	72	119			
Surr: 4-Bromofluorobenzene	48.3		50.00		96.6	76	119			
Surr: Dibromofluoromethane	50.3		50.00		101	85	115			
Surr: Toluene-d8	49.9		50.00		99.8	81	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_191118A

Sample ID: **DCS-93749** Batch ID: **93749** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GCMS1_191118A** Analysis Date: **11/18/2019 1:07:00 PM** Prep Date: **11/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00273	0.00500	0.00232	0	118	10	400	0	0	
Ethylbenzene	0.00215	0.00500	0.00232	0	92.7	10	400	0	0	
Toluene	0.00281	0.00500	0.00232	0	121	10	400	0	0	
Total Xylenes	0.00626	0.00500	0.00696	0	89.9	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_191213A

The QC data in batch 94095 applies to the following samples: 1912126-02A, 1912126-03A, 1912126-04A, 1912126-05A, 1912126-06A, 1912126-07A, 1912126-08A, 1912126-09A, 1912126-10A, 1912126-11A, 1912126-12A, 1912126-13A, 1912126-14A, 1912126-15A, 1912126-16A, 1912126-17A, 1912126-18A, 1912126-19A, 1912126-20A, 1912126-21A

Sample ID: **LCS-94095 MEOH** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 9:18:00 AM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.27	0.250	1.16	0	109	73	126			
Ethylbenzene	1.26	0.250	1.16	0	108	74	127			
Toluene	1.30	0.250	1.16	0	112	71	127			
Xylenes, Total	3.69	0.250	3.48	0	106	75	125			
Surr: 1,2-Dichloroethane-d4	2550		2500		102	52	149			
Surr: 4-Bromofluorobenzene	2380		2500		95.2	84	118			
Surr: Dibromofluoromethane	2520		2500		101	65	135			
Surr: Toluene-d8	2450		2500		98.0	84	116			

Sample ID: **MB-94095 MEOH** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 9:47:00 AM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.0500	0.250								
Ethylbenzene	<0.0500	0.250								
Toluene	<0.0500	0.250								
Xylenes, Total	<0.0500	0.250								
Surr: 1,2-Dichloroethane-d4	2450		2500		98.0	52	149			
Surr: 4-Bromofluorobenzene	2290		2500		91.8	84	118			
Surr: Dibromofluoromethane	2470		2500		98.7	65	135			
Surr: Toluene-d8	2470		2500		98.8	84	116			

Sample ID: **1912126-02AMS** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 8:28:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.16	0.238	1.10	0	105	73	126			
Ethylbenzene	1.14	0.238	1.10	0	104	74	127			
Toluene	1.25	0.238	1.10	0	113	71	127			
Xylenes, Total	3.39	0.238	3.31	0	102	75	125			
Surr: 1,2-Dichloroethane-d4	2400		2381		101	52	149			
Surr: 4-Bromofluorobenzene	2210		2381		92.8	84	118			
Surr: Dibromofluoromethane	2360		2381		99.2	65	135			
Surr: Toluene-d8	2320		2381		97.3	84	116			

Sample ID: **1912126-02AMSD** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 8:57:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_191213A

Sample ID: **1912126-02AMSD** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 8:57:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.17	0.238	1.10	0	106	73	126	0.589	30	
Ethylbenzene	1.14	0.238	1.10	0	103	74	127	0.104	30	
Toluene	1.21	0.238	1.10	0	110	71	127	2.87	30	
Xylenes, Total	3.36	0.238	3.31	0	101	75	125	1.03	30	
Surr: 1,2-Dichloroethane-d4	2380		2381		100	52	149	0	0	
Surr: 4-Bromofluorobenzene	2180		2381		91.4	84	118	0	0	
Surr: Dibromofluoromethane	2410		2381		101	65	135	0	0	
Surr: Toluene-d8	2340		2381		98.3	84	116	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_191213A

Sample ID: **ICV-191213** Batch ID: **R107906** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS1_191213A** Analysis Date: **12/13/2019 8:49:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0498	0.00500	0.0464	0	107	80	120			
Ethylbenzene	0.0489	0.00500	0.0464	0	105	80	120			
Toluene	0.0519	0.00500	0.0464	0	112	80	120			
Xylenes, Total	0.147	0.00500	0.139	0	105	80	120			
Surr: 1,2-Dichloroethane-d4	48.4		50.00		96.7	52	149			
Surr: 4-Bromofluorobenzene	46.8		50.00		93.7	84	118			
Surr: Dibromofluoromethane	49.6		50.00		99.2	65	135			
Surr: Toluene-d8	49.5		50.00		98.9	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191118A

Sample ID: **DCS-93748** Batch ID: **93748** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GCMS2_191118A** Analysis Date: **11/18/2019 1:08:00 PM** Prep Date: **11/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00284	0.00500	0.00232	0	122	10	400	0	0	
Ethylbenzene	0.00243	0.00500	0.00232	0	105	10	400	0	0	
Toluene	0.00273	0.00500	0.00232	0	118	10	400	0	0	
Total Xylenes	0.00686	0.00500	0.00696	0	98.6	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191214B

The QC data in batch 94095 applies to the following samples: 1912126-02A, 1912126-03A, 1912126-04A, 1912126-05A, 1912126-06A, 1912126-07A, 1912126-08A, 1912126-09A, 1912126-10A, 1912126-11A, 1912126-12A, 1912126-13A, 1912126-14A, 1912126-15A, 1912126-16A, 1912126-17A, 1912126-18A, 1912126-19A, 1912126-20A, 1912126-21A

Sample ID: **SB-191214** Batch ID: **94095** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **SBLK** Run ID: **GCMS2_191214B** Analysis Date: **12/14/2019 3:33:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.0500	0.250	0							
Ethylbenzene	<0.0500	0.250	0							
Toluene	<0.0500	0.250	0							
Xylenes, Total	<0.0500	0.250	0							
Surr: 1,2-Dichloroethane-d4	2280		0							
Surr: 4-Bromofluorobenzene	2230		0							
Surr: Dibromofluoromethane	2440		0							
Surr: Toluene-d8	2290		0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191214B

Sample ID: **ICV-191214** Batch ID: **R107914** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191214B** Analysis Date: **12/14/2019 2:36:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0493	0.00500	0.0464	0	106	80	120			
Ethylbenzene	0.0516	0.00500	0.0464	0	111	80	120			
Toluene	0.0515	0.00500	0.0464	0	111	80	120			
Xylenes, Total	0.151	0.00500	0.139	0	109	80	120			
Surr: 1,2-Dichloroethane-d4	42.4		50.00		84.9	52	149			
Surr: 4-Bromofluorobenzene	46.6		50.00		93.2	84	118			
Surr: Dibromofluoromethane	48.3		50.00		96.7	65	135			
Surr: Toluene-d8	47.8		50.00		95.5	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191121A

Sample ID: **DCS-93791** Batch ID: **93791** TestNo: **SW8260D** Units: **mg/L**
SampType: **DCS** Run ID: **GCMS3_191121A** Analysis Date: **11/21/2019 9:51:00 AM** Prep Date: **11/21/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.000529	0.00200	0.000464	0	114	10	400	0	0	
Ethylbenzene	0.000528	0.00600	0.000464	0	114	10	400	0	0	
Toluene	0.000546	0.00600	0.000464	0	118	10	400	0	0	
Total Xylenes	0.00161	0.00600	0.00139	0	116	10	400	0	0	
Surr: 1,2-Dichloroethane-d4	44.7		50.00		89.5	72	119	0	0	
Surr: 4-Bromofluorobenzene	48.3		50.00		96.5	76	119	0	0	
Surr: Dibromofluoromethane	50.9		50.00		102	85	115	0	0	
Surr: Toluene-d8	48.9		50.00		97.8	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

The QC data in batch 94118 applies to the following samples: 1912126-01A

Sample ID: **LCS-94118** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:33:00 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0456	0.00200	0.0464	0	98.4	81	122			
Ethylbenzene	0.0454	0.00600	0.0464	0	97.9	73	127			
Toluene	0.0461	0.00600	0.0464	0	99.4	77	122			
Total Xylenes	0.135	0.00600	0.139	0	96.8	80	121			
Surr: 1,2-Dichloroethane-d4	49.8		50.00		99.5	72	119			
Surr: 4-Bromofluorobenzene	48.3		50.00		96.6	76	119			
Surr: Dibromofluoromethane	50.6		50.00		101	85	115			
Surr: Toluene-d8	49.8		50.00		99.7	81	120			

Sample ID: **MB-94118** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:59:00 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000800	0.00200								
Ethylbenzene	<0.00200	0.00600								
Toluene	<0.00200	0.00600								
Total Xylenes	<0.00200	0.00600								
Surr: 1,2-Dichloroethane-d4	49.4		50.00		98.8	72	119			
Surr: 4-Bromofluorobenzene	49.3		50.00		98.6	76	119			
Surr: Dibromofluoromethane	50.4		50.00		101	85	115			
Surr: Toluene-d8	50.0		50.00		100	81	120			

Sample ID: **1912145-12AMS** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:32:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.70	0.100	2.32	0.562	92.0	81	122			
Ethylbenzene	2.14	0.300	2.32	0	92.0	73	127			
Toluene	2.14	0.300	2.32	0	92.3	77	122			
Total Xylenes	6.20	0.300	6.95	0	89.2	80	121			
Surr: 1,2-Dichloroethane-d4	2460		2500		98.2	72	119			
Surr: 4-Bromofluorobenzene	2390		2500		95.7	76	119			
Surr: Dibromofluoromethane	2520		2500		101	85	115			
Surr: Toluene-d8	2480		2500		99.1	81	120			

Sample ID: **1912145-12AMSD** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:57:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.70	0.100	2.32	0.562	92.3	81	122	0.216	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

Sample ID: **1912145-12AMSD** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:57:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	2.14	0.300	2.32	0	92.4	73	127	0.425	20	
Toluene	2.16	0.300	2.32	0	93.2	77	122	0.964	20	
Total Xylenes	6.42	0.300	6.95	0	92.4	80	121	3.59	20	
Surr: 1,2-Dichloroethane-d4	2480		2500		99.4	72	119	0	0	
Surr: 4-Bromofluorobenzene	2420		2500		97.0	76	119	0	0	
Surr: Dibromofluoromethane	2520		2500		101	85	115	0	0	
Surr: Toluene-d8	2490		2500		99.4	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

Sample ID: **ICV-191217** Batch ID: **R107983** TestNo: **SW8260D** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:07:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0898	0.00200	0.0928	0	96.8	80	120			
Ethylbenzene	0.0900	0.00600	0.0928	0	97.0	80	120			
Toluene	0.0905	0.00600	0.0928	0	97.5	80	120			
Total Xylenes	0.261	0.00600	0.278	0	93.9	80	120			
Surr: 1,2-Dichloroethane-d4	49.3		50.00		98.6	72	119			
Surr: 4-Bromofluorobenzene	48.3		50.00		96.6	76	119			
Surr: Dibromofluoromethane	50.3		50.00		101	85	115			
Surr: Toluene-d8	49.9		50.00		99.8	81	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191002A

Sample ID: **DCS-93058**	Batch ID: **93058**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **DCS**	Run ID: **IC4_191002A**	Analysis Date: **10/2/2019 12:37:56 PM**	Prep Date: **10/2/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2.66	5.00	2.500	0	106	65	135	0	0	

Sample ID: **DCS2-93058**	Batch ID: **93058**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **DCS2**	Run ID: **IC4_191002A**	Analysis Date: **10/2/2019 12:53:56 PM**	Prep Date: **10/2/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.98	5.00	5.000	0	99.6	65	135	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191216A

The QC data in batch 94126 applies to the following samples: 1912126-02C, 1912126-03C, 1912126-04C, 1912126-05C, 1912126-06C, 1912126-07C, 1912126-08C, 1912126-09C, 1912126-10C, 1912126-11C, 1912126-12C, 1912126-13C, 1912126-14C, 1912126-15C, 1912126-16C, 1912126-17C, 1912126-18C, 1912126-19C, 1912126-20C, 1912126-21C

Sample ID: **MB-94126** Batch ID: **94126** TestNo: **SW9056A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **IC4_191216A** Analysis Date: **12/16/2019 9:55:16 AM** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<2.00	5.00								

Sample ID: **LCS-94126** Batch ID: **94126** TestNo: **SW9056A** Units: **mg/Kg**
SampType: **LCS** Run ID: **IC4_191216A** Analysis Date: **12/16/2019 10:11:16 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	48.1	5.00	50.00	0	96.2	80	120			

Sample ID: **LCSD-94126** Batch ID: **94126** TestNo: **SW9056A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **IC4_191216A** Analysis Date: **12/16/2019 10:27:16 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	47.9	5.00	50.00	0	95.8	80	120	0.413	15	

Sample ID: **1912126-02C-DUP** Batch ID: **94126** TestNo: **SW9056A** Units: **mg/Kg-dry**
SampType: **DUP** Run ID: **IC4_191216A** Analysis Date: **12/16/2019 10:56:15 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	37.9	4.93	0	41.19				8.31	10	

Sample ID: **1912126-02CMS** Batch ID: **94126** TestNo: **SW9056A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **IC4_191216A** Analysis Date: **12/16/2019 11:12:15 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	139	5.08	101.6	41.19	95.8	80	120			

Sample ID: **1912126-02CMSD** Batch ID: **94126** TestNo: **SW9056A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **IC4_191216A** Analysis Date: **12/16/2019 11:28:15 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	138	5.13	102.6	41.19	94.5	80	120	0.245	15	

Sample ID: **1912126-03C-DUP** Batch ID: **94126** TestNo: **SW9056A** Units: **mg/Kg-dry**
SampType: **DUP** Run ID: **IC4_191216A** Analysis Date: **12/17/2019 12:00:15 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	17.5	5.36	0	16.91				3.34	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191216A

Sample ID: **ICV-191216**	Batch ID: **R107932**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **IC4_191216A**	Analysis Date: **12/16/2019 9:23:16 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24.1	5.00	25.00	0	96.3	90	110			

Sample ID: **CCV1-191216**	Batch ID: **R107932**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **IC4_191216A**	Analysis Date: **12/16/2019 6:08:16 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.63	5.00	10.00	0	96.3	90	110			

Sample ID: **CCV2-191216**	Batch ID: **R107932**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **IC4_191216A**	Analysis Date: **12/16/2019 10:08:15 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.63	5.00	10.00	0	96.3	90	110			

Sample ID: **CCV3-191216**	Batch ID: **R107932**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **IC4_191216A**	Analysis Date: **12/17/2019 1:52:15 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.75	5.00	10.00	0	97.5	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191217A

Sample ID: **ICV-191217**	Batch ID: **R107960**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **IC4_191217A**	Analysis Date: **12/17/2019 9:27:26 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24.4	5.00	25.00	0	97.7	90	110			

Sample ID: **CCV1-191217**	Batch ID: **R107960**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **IC4_191217A**	Analysis Date: **12/17/2019 2:50:11 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.89	5.00	10.00	0	98.9	90	110			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_191213B

The QC data in batch 94110 applies to the following samples: 1912126-02C, 1912126-03C, 1912126-04C, 1912126-05C, 1912126-06C, 1912126-07C, 1912126-08C

Sample ID: **1912126-08C-DUP** Batch ID: **94110** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_191213B** Analysis Date: **12/15/2019 1:40:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	16.0	0	0	16.83				4.99	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_191216A

The QC data in batch 94138 applies to the following samples: 1912126-09C, 1912126-10C, 1912126-11C, 1912126-12C, 1912126-13C, 1912126-14C, 1912126-15C, 1912126-16C, 1912126-17C, 1912126-18C, 1912126-19C, 1912126-20C, 1912126-21C

Sample ID: **1912127-08C-DUP** Batch ID: **94138** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_191216A** Analysis Date: **12/17/2019 8:54:00 AM** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	9.43	0	0	9.848				4.29	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Work Order: 1912126
Project: HEP Millman

MQL SUMMARY REPORT

TestNo: SW8260D	**MDL**	**MQL**
Analyte	**mg/L**	**mg/L**
Benzene	0.000800	0.00200
Ethylbenzene	0.00200	0.00600
Toluene	0.00200	0.00600
Total Xylenes	0.00200	0.00600

TestNo: SW8260D	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Benzene	0.0500	0.250
Ethylbenzene	0.0500	0.250
Toluene	0.0500	0.250
Xylenes, Total	0.0500	0.250

TestNo: SW9056A	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Chloride	2.00	5.00

TestNo: M8015D	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
TPH-DRO C10-C28	3.00	10.0
TPH-ORO >C28-C35	3.00	10.0

TestNo: M8015V	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Gasoline Range Organics	0.100	0.200

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

December 23, 2019

Cindy Crain
TRC Environmental Corp.
10 Desta Dr. #150E
Midland, Texas 79705
TEL: (432) 215-6730
FAX

Order No.: 1912127

RE: Millman Station

Dear Cindy Crain:

DHL Analytical, Inc. received 25 sample(s) on 12/12/2019 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-19-24

Table of Contents

DHL ANALYTICAL
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Phone (512) 388-8222 ■ FAX (512) 388-8229
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E-Mail: login@dhlanalytical.com

№ 80033 CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 10 Desta Dr STE 150E
PHONE: 432-215-6730 FAX/E-MAIL:
DATA REPORTED TO: CKCrain@trccompanies.com
ADDITIONAL REPORT COPIES TO:

DATE: 12/11/19 PAGE 1 OF 2
PO #: 287506 DHL WORK ORDER #: 1912127
PROJECT LOCATION OR NAME: Millman Station
CLENT PROJECT #: COLLECTOR: J. Stoffel

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR L=LIQUID SE=SEDIMENT P=PAINT SL=SLUDGE O=OTHER SO=SOLID

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☒ MTBE ☐ [METHOD 8021]; TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐; GRO [METHOD 8015] ☒ DRO [METHOD 8105] ☒; VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐; SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐; 8270 PEST ☐ 625 PEST/PCB ☐ 608 PCB ☐ 8082 PCB ☐ 8270 PCB ☐; 8270 O-P PEST ☐ 8082 PEST ☐ T PHOS, AMMONIA ☐; 8321 HERB ☐ METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐; METALS 6020 ☐ TX11 ☐ ☐; RCRA ☐ TX11 ☐ METALS 200.8 ☐ ALKALINITY ☐ COD ☐; PH ☐ HEX CHROM ☐ ANIONS ☐ ☐; CHLORIDE ☒ ANIONS ☐ VOC ☐ PEST ☐ HERB ☐; TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐; TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐; RCI ☐ FLASHPOINT ☐ DGAS ☐; TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☒	TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐	GRO [METHOD 8015] ☒ DRO [METHOD 8105] ☒	VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐	8270 PEST ☐ 625 PEST/PCB ☐ 608 PCB ☐ 8082 PCB ☐ 8270 PCB ☐	8270 O-P PEST ☐ 8082 PEST ☐ T PHOS, AMMONIA ☐	8321 HERB ☐ METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐	METALS 6020 ☐ TX11 ☐ ☐	RCRA ☐ TX11 ☐ METALS 200.8 ☐ ALKALINITY ☐ COD ☐	PH ☐ HEX CHROM ☐ ANIONS ☐ ☐	CHLORIDE ☒ ANIONS ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ FLASHPOINT ☐ DGAS ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	FIELD NOTES
TB-20191211	01	12/11/19	1700	W	VOA	2					X	X																	Direct Bill HEP
Dup-2	02		—	Soil	VOA x 4-oz	4							X									X							
Dup-3	03		—																										
Dup-4	04		—																										
TT-7@12'	05		0815																										
TT-8@0-1'	06		0900																										
TT-8@7'	07		0912																										
TT-8@11'	08		0920																										
TT-9@0-1'	09		0930																										
TT-9@4'	10		0936																										
TT-9@8'	11		0944																										
TT-10@0-1'	12		1015																										
TT-10@7'	13		1027																										
TT-10@12'	14		1037																										
AH-1@0-1'	15	↓	1100	↓	↓	↓					↓	↓	↓									↓							

RELINQUISHED BY: (Signature) DATE/TIME 12/11/19 1500 RECEIVED BY: (Signature) FedEx
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
FedEx 12/12/19 0731 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ _____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.3C THERM #: 78
CUSTODY SEALS: ☐ BROKEN ☒ INTACT ☐ NOT USED
CARRIER: ☐ LONE STAR ☒ FEDEX ☐ UPS ☐ OTHER
☐ COURIER DELIVERY
☐ HAND DELIVERED

DHL COC Rev 1 | FEB 2010

DHL ANALYTICAL
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№ 80034 CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 10 Desta Dr STE 150E
PHONE: 432-915-6730 FAX/E-MAIL:
DATA REPORTED TO: Ckerain@trcsolutions.com
ADDITIONAL REPORT COPIES TO:

DATE: 12/11/19 PAGE 2 OF 2
PO #: 787506 DHL WORK ORDER #: 1912127
PROJECT LOCATION OR NAME: Millman Station
CLENT PROJECT #: COLLECTOR: J. Stoffel

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR L=LIQUID SE=SEDIMENT P=PAINT SL=SLUDGE O=OTHER SO=SOLID

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☒ MTBE ☐ (METHOD 8021) | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO (METHOD 8015) ☒ DRO (METHOD 8105) ☒ | VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ | 8270 PEST ☐ 625 PEST/PCB ☐ 608 PCB ☐ | 8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐ | 8321 HERB ☐ T PHOS, AMMONIA ☐ | METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ | RCRA ☐ TX11 ☐ ☐ | PH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐ | CHLORIDE ☒ ANIONS ☐ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ FLASHPOINT ☐ DGAS ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESERVED	BTEX	TPH 1005	GRO/DRO	VOC 8260	SVOC 8270	8270 PEST	8270 O-P PEST	8321 HERB	METALS 6020	RCRA	PH	CHLORIDE	TCLP-SVOC	TCLP-METALS	RCI	TDS	FIELD NOTES
AH-1 @ 5'	16	12/11/19	1105	Soil	VOA+4oz	4					X	X		X									X					
AH-2 @ 0-1'	17		1120																									
AH-2 @ 5'	18		1128																									
AH-3 @ 0-1'	19		1136																									
AH-3 @ 5'	20		1144																									
AH-4 @ 0-1'	21		1152																									
AH-4 @ 5'	22		1200																									
AH-5 @ 0-1'	23		1210																									
AH-5 @ 5'	24		1218																									
Stockpile	25		1230																									

RELINQUISHED BY: (Signature) DATE/TIME 12/11/19 1500 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ _____

LABORATORY USE ONLY:
RECEIVING TEMP: _____ THERM #: _____
CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☐ NOT USED
CARRIER: ☐ LONE STAR ☐ FEDEX ☐ UPS ☐ OTHER
☐ COURIER DELIVERY
☐ HAND DELIVERED

DHL COC Rev 1 | FEB 2010

ORIGIN ID:NOBA (432) 238-8003
JARED STOFFEL
TRC
505 E HUNTLAND DR STE 250

AUSTIN, TX 78752
UNITED STATES US

SHIP DATE: 11DEC19
ACTWGT: 51.80 LB
CAD: 6994246/SSFE2021
DIMS: 23x13x14 IN

BILL THIRD PARTY

TO DHL ANALYTICAL
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 388-8222 REF:
INV:
PO: DEPT:

FedEx Express

2 of 2
MPS# 0263 7788 3163 6689
Mstr# 7788 3163 6678 0201

THU - 12 DEC 8:00A
FIRST OVERNIGHT

A1 BSMA

78664
TX-US AUS

CUSTODY SEAL
DATE 12/11/19
SIGNATURE

DHL ANALYTICAL

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name TRC Environmental Corp. Date Received: 12/12/2019

Work Order Number 1912127 Received by: EL

Checklist completed by: _____ 12/12/2019 Reviewed by _____ 12/12/2019
Signature Date Initials Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	4.3 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Name: DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Millman Station	**LRC Date:** 12/23/2019
Reviewer Name: Angie O'Donnell	**Laboratory Work Order: 1912127**
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	**1)** Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			**R4-02**
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MDL?	X				
		5) For analyte(s) detected in a blank sample, was the concentration, unadjusted for sample specific factors, in all associated field samples, **greater** than 10 times the concentration in the blank sample?			X		
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			**R7-03**
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?		X			**R8-03**
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Name: DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Millman Station	**LRC Date:** 12/23/2019
Reviewer Name: Angie O'Donnell	**Laboratory Work Order: 1912127**
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory is not accredited under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on February 25-28, 2019. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name: John DuPont
Official Title: General Manager

Signature

12/23/19
Date

Name: Dr. Derhsing Luu
Official Title: Technical Director

DHL Analytical, Inc. **Date:** *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Lab Order: 1912127

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method M8015D - TPH Extractable by GC (DRO/ORO) Analysis
Method M8015V - TPH Purgeable by GC (GRO) Analysis
Method SW8260D - Volatile Organics Analysis
Method SW9056A - Anions Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 12/12/2019. A total of 25 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For Volatile Organics Analysis, the recoveries of up to two surrogates for five samples (various dilutions) were above the method control limits. These were flagged accordingly in the Analytical Data Report. The remaining surrogates for these samples were within method control limits. No further corrective action was taken.

For TPH Extractable by GC (DRO/ORO) Analysis, the recovery of Octacosane for five samples was above the method control limits. The remaining surrogate for these samples was within method control limits. Additionally, the recoveries of both samples for five samples were above the method control limits, due to coelution. These were flagged accordingly in the Analytical Data Report. No further corrective action was taken.

Exception Report R7-03

For Anions Analysis, the recovery of Chloride for the Matrix Spike (1912127-02 MS) was above the method control limits. This is flagged accordingly in the QC Summary Report. This anion was within method control limits in the associated LCS/MSD. No further corrective action was taken.

Exception Report R8-03

For Anions Analysis, the RPDs of Chloride for the Sample Duplicate(s) (1912127-22, -23 Dup) was above the method control limit. These are flagged accordingly in the QC Summary Report. This anion was within method control limits in the associated LCS. No further corrective action was taken.

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Lab Order: 1912127

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1912127-01	TB-20191211		12/11/19 05:00 PM	12/12/2019
1912127-02	Dup-2		12/11/19	12/12/2019
1912127-03	Dup-3		12/11/19	12/12/2019
1912127-04	Dup-4		12/11/19	12/12/2019
1912127-05	TT-7@12'		12/11/19 08:15 AM	12/12/2019
1912127-06	TT-8@0-1'		12/11/19 09:00 AM	12/12/2019
1912127-07	TT-8@7'		12/11/19 09:12 AM	12/12/2019
1912127-08	TT-8@11'		12/11/19 09:20 AM	12/12/2019
1912127-09	TT-9@0-1'		12/11/19 09:30 AM	12/12/2019
1912127-10	TT-9@4'		12/11/19 09:36 AM	12/12/2019
1912127-11	TT-9@8'		12/11/19 09:44 AM	12/12/2019
1912127-12	TT-10@0-1'		12/11/19 10:15 AM	12/12/2019
1912127-13	TT-10@7'		12/11/19 10:27 AM	12/12/2019
1912127-14	TT-10@12'		12/11/19 10:37 AM	12/12/2019
1912127-15	AH-1@0-1'		12/11/19 11:00 AM	12/12/2019
1912127-16	AH-1@5'		12/11/19 11:08 AM	12/12/2019
1912127-17	AH-2@0-1'		12/11/19 11:20 AM	12/12/2019
1912127-18	AH-2@5'		12/11/19 11:28 AM	12/12/2019
1912127-19	AH-3@0-1'		12/11/19 11:36 AM	12/12/2019
1912127-20	AH-3@5'		12/11/19 11:44 AM	12/12/2019
1912127-21	AH-4@0-1'		12/11/19 11:52 AM	12/12/2019
1912127-22	AH-4@5'		12/11/19 12:00 PM	12/12/2019
1912127-23	AH-5@0-1'		12/11/19 12:10 PM	12/12/2019
1912127-24	AH-5@5'		12/11/19 12:18 PM	12/12/2019
1912127-25	Stockpile		12/11/19 12:30 PM	12/12/2019

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912127-01A	TB-20191211	12/11/19 05:00 PM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	12/17/19 02:27 PM	94118
1912127-02A	Dup-2	12/11/19	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-02B	Dup-2	12/11/19	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912127-02C	Dup-2	12/11/19	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	Dup-2	12/11/19	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	Dup-2	12/11/19	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-03A	Dup-3	12/11/19	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-03B	Dup-3	12/11/19	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912127-03C	Dup-3	12/11/19	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	Dup-3	12/11/19	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	Dup-3	12/11/19	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-04A	Dup-4	12/11/19	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-04B	Dup-4	12/11/19	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912127-04C	Dup-4	12/11/19	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	Dup-4	12/11/19	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	Dup-4	12/11/19	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	Dup-4	12/11/19	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-05A	TT-7@12'	12/11/19 08:15 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-05B	TT-7@12'	12/11/19 08:15 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912127-05C	TT-7@12'	12/11/19 08:15 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-7@12'	12/11/19 08:15 AM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-7@12'	12/11/19 08:15 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-06A	TT-8@0-1'	12/11/19 09:00 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-06B	TT-8@0-1'	12/11/19 09:00 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912127-06C	TT-8@0-1'	12/11/19 09:00 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-8@0-1'	12/11/19 09:00 AM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-8@0-1'	12/11/19 09:00 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-07A	TT-8@7'	12/11/19 09:12 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912127-07B	TT-8@7'	12/11/19 09:12 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912127-07C	TT-8@7'	12/11/19 09:12 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-8@7'	12/11/19 09:12 AM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-8@7'	12/11/19 09:12 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-08A	TT-8@11'	12/11/19 09:20 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-08B	TT-8@11'	12/11/19 09:20 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912127-08C	TT-8@11'	12/11/19 09:20 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-8@11'	12/11/19 09:20 AM	Soil	D2216	Moisture Preparation	12/16/19 04:14 PM	94138
	TT-8@11'	12/11/19 09:20 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-09A	TT-9@0-1'	12/11/19 09:30 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
	TT-9@0-1'	12/11/19 09:30 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-09B	TT-9@0-1'	12/11/19 09:30 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/18/19 06:41 AM	94159
1912127-09C	TT-9@0-1'	12/11/19 09:30 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-9@0-1'	12/11/19 09:30 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-9@0-1'	12/11/19 09:30 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	TT-9@0-1'	12/11/19 09:30 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-10A	TT-9@4'	12/11/19 09:36 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-10B	TT-9@4'	12/11/19 09:36 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912127-10C	TT-9@4'	12/11/19 09:36 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-9@4'	12/11/19 09:36 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	TT-9@4'	12/11/19 09:36 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-11A	TT-9@8'	12/11/19 09:44 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-11B	TT-9@8'	12/11/19 09:44 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912127-11C	TT-9@8'	12/11/19 09:44 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-9@8'	12/11/19 09:44 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	TT-9@8'	12/11/19 09:44 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-12A	TT-10@0-1'	12/11/19 10:15 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-12B	TT-10@0-1'	12/11/19 10:15 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912127-12B	TT-10@0-1'	12/11/19 10:15 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912127-12C	TT-10@0-1'	12/11/19 10:15 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-10@0-1'	12/11/19 10:15 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-10@0-1'	12/11/19 10:15 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	TT-10@0-1'	12/11/19 10:15 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-13A	TT-10@7'	12/11/19 10:27 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-13B	TT-10@7'	12/11/19 10:27 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/16/19 08:31 AM	94124
1912127-13C	TT-10@7'	12/11/19 10:27 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-10@7'	12/11/19 10:27 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	TT-10@7'	12/11/19 10:27 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-14A	TT-10@12'	12/11/19 10:37 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-14B	TT-10@12'	12/11/19 10:37 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
	TT-10@12'	12/11/19 10:37 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912127-14C	TT-10@12'	12/11/19 10:37 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	TT-10@12'	12/11/19 10:37 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	TT-10@12'	12/11/19 10:37 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-15A	AH-1@0-1'	12/11/19 11:00 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
	AH-1@0-1'	12/11/19 11:00 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
	AH-1@0-1'	12/11/19 11:00 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-15B	AH-1@0-1'	12/11/19 11:00 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/18/19 06:41 AM	94159
1912127-15C	AH-1@0-1'	12/11/19 11:00 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	AH-1@0-1'	12/11/19 11:00 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	AH-1@0-1'	12/11/19 11:00 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
	AH-1@0-1'	12/11/19 11:00 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-16A	AH-1@5'	12/11/19 11:08 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-16B	AH-1@5'	12/11/19 11:08 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912127-16C	AH-1@5'	12/11/19 11:08 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	AH-1@5'	12/11/19 11:08 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912127-16C	AH-1@5'	12/11/19 11:08 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	AH-1@5'	12/11/19 11:08 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-17A	AH-2@0-1'	12/11/19 11:20 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
	AH-2@0-1'	12/11/19 11:20 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-17B	AH-2@0-1'	12/11/19 11:20 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/18/19 06:41 AM	94159
1912127-17C	AH-2@0-1'	12/11/19 11:20 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	AH-2@0-1'	12/11/19 11:20 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	AH-2@0-1'	12/11/19 11:20 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
	AH-2@0-1'	12/11/19 11:20 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-18A	AH-2@5'	12/11/19 11:28 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-18B	AH-2@5'	12/11/19 11:28 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
	AH-2@5'	12/11/19 11:28 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912127-18C	AH-2@5'	12/11/19 11:28 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	AH-2@5'	12/11/19 11:28 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	AH-2@5'	12/11/19 11:28 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	AH-2@5'	12/11/19 11:28 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-19A	AH-3@0-1'	12/11/19 11:36 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
	AH-3@0-1'	12/11/19 11:36 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-19B	AH-3@0-1'	12/11/19 11:36 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/18/19 06:41 AM	94159
1912127-19C	AH-3@0-1'	12/11/19 11:36 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	AH-3@0-1'	12/11/19 11:36 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	AH-3@0-1'	12/11/19 11:36 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
	AH-3@0-1'	12/11/19 11:36 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-20A	AH-3@5'	12/11/19 11:44 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-20B	AH-3@5'	12/11/19 11:44 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912127-20C	AH-3@5'	12/11/19 11:44 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	AH-3@5'	12/11/19 11:44 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	AH-3@5'	12/11/19 11:44 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912127-20C	AH-3@5'	12/11/19 11:44 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-21A	AH-4@0-1'	12/11/19 11:52 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
	AH-4@0-1'	12/11/19 11:52 AM	Soil	SW5035A	Purge and Trap 5035	12/13/19 03:54 PM	94111
1912127-21B	AH-4@0-1'	12/11/19 11:52 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/18/19 06:41 AM	94159
1912127-21C	AH-4@0-1'	12/11/19 11:52 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	AH-4@0-1'	12/11/19 11:52 AM	Soil	SW9056A	Anion Prep	12/17/19 09:04 AM	94148
	AH-4@0-1'	12/11/19 11:52 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	AH-4@0-1'	12/11/19 11:52 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
	AH-4@0-1'	12/11/19 11:52 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/17/19 08:52 AM	94145
1912127-22A	AH-4@5'	12/11/19 12:00 PM	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
1912127-22B	AH-4@5'	12/11/19 12:00 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912127-22C	AH-4@5'	12/11/19 12:00 PM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-4@5'	12/11/19 12:00 PM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-4@5'	12/11/19 12:00 PM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	AH-4@5'	12/11/19 12:00 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166
1912127-23A	AH-5@0-1'	12/11/19 12:10 PM	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
1912127-23B	AH-5@0-1'	12/11/19 12:10 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912127-23C	AH-5@0-1'	12/11/19 12:10 PM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-5@0-1'	12/11/19 12:10 PM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-5@0-1'	12/11/19 12:10 PM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	AH-5@0-1'	12/11/19 12:10 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166
1912127-24A	AH-5@5'	12/11/19 12:18 PM	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
	AH-5@5'	12/11/19 12:18 PM	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
1912127-24B	AH-5@5'	12/11/19 12:18 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
	AH-5@5'	12/11/19 12:18 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912127-24C	AH-5@5'	12/11/19 12:18 PM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-5@5'	12/11/19 12:18 PM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-5@5'	12/11/19 12:18 PM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156

DHL Analytical, Inc.

23-Dec-19

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912127-24C	AH-5@5'	12/11/19 12:18 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166
1912127-25A	Stockpile	12/11/19 12:30 PM	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
1912127-25B	Stockpile	12/11/19 12:30 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
	Stockpile	12/11/19 12:30 PM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912127-25C	Stockpile	12/11/19 12:30 PM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	Stockpile	12/11/19 12:30 PM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	Stockpile	12/11/19 12:30 PM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	Stockpile	12/11/19 12:30 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166
	Stockpile	12/11/19 12:30 PM	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912127-01A	TB-20191211	Trip Blank	SW8260D	Volatile Aromatics by GC/MS	94118	1	12/17/19 06:52 PM	GCMS3_191217A
1912127-02A	Dup-2	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 05:32 PM	GCMS2_191213A
1912127-02B	Dup-2	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 02:03 PM	GC4_191216A
1912127-02C	Dup-2	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 12:10 PM	IC4_191217A
	Dup-2	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	Dup-2	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 08:04 AM	GC15_191218A
1912127-03A	Dup-3	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 06:57 PM	GCMS2_191213A
1912127-03B	Dup-3	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 07:14 PM	GC4_191216A
1912127-03C	Dup-3	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 12:26 PM	IC4_191217A
	Dup-3	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	Dup-3	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 08:13 AM	GC15_191218A
1912127-04A	Dup-4	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 07:25 PM	GCMS2_191213A
1912127-04B	Dup-4	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 07:38 PM	GC4_191216A
1912127-04C	Dup-4	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 12:42 PM	IC4_191217A
	Dup-4	Soil	SW9056A	Anions by IC method - Soil	94148	1	12/17/19 08:25 PM	IC4_191217A
	Dup-4	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	Dup-4	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 08:40 AM	GC15_191218A
1912127-05A	TT-7@12'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 07:54 PM	GCMS2_191213A
1912127-05B	TT-7@12'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 08:02 PM	GC4_191216A
1912127-05C	TT-7@12'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 12:58 PM	IC4_191217A
	TT-7@12'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-7@12'	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 08:49 AM	GC15_191218A
1912127-06A	TT-8@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 08:22 PM	GCMS2_191213A
1912127-06B	TT-8@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 08:26 PM	GC4_191216A
1912127-06C	TT-8@0-1'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 01:14 PM	IC4_191217A
	TT-8@0-1'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-8@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 08:58 AM	GC15_191218A
1912127-07A	TT-8@7'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 08:50 PM	GCMS2_191213A

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912127-07B	TT-8@7'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 08:50 PM	GC4_191216A
1912127-07C	TT-8@7'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 01:30 PM	IC4_191217A
	TT-8@7'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-8@7'	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 09:07 AM	GC15_191218A
1912127-08A	TT-8@11'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 09:18 PM	GCMS2_191213A
1912127-08B	TT-8@11'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 09:13 PM	GC4_191216A
1912127-08C	TT-8@11'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 01:46 PM	IC4_191217A
	TT-8@11'	Soil	D2216	Percent Moisture	94138	1	12/17/19 08:54 AM	PMOIST_191216A
	TT-8@11'	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 09:16 AM	GC15_191218A
1912127-09A	TT-9@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	500	12/15/19 12:08 AM	GCMS2_191214B
	TT-9@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/14/19 01:05 AM	GCMS2_191213A
1912127-09B	TT-9@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94159	1000	12/18/19 10:19 AM	GC4_191218A
1912127-09C	TT-9@0-1'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 03:35 PM	IC4_191217A
	TT-9@0-1'	Soil	SW9056A	Anions by IC method - Soil	94148	1	12/17/19 08:41 PM	IC4_191217A
	TT-9@0-1'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	TT-9@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94145	10	12/18/19 10:55 AM	GC15_191218A
1912127-10A	TT-9@4'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 09:47 PM	GCMS2_191213A
1912127-10B	TT-9@4'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 09:37 PM	GC4_191216A
1912127-10C	TT-9@4'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 03:51 PM	IC4_191217A
	TT-9@4'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	TT-9@4'	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 09:25 AM	GC15_191218A
1912127-11A	TT-9@8'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 10:15 PM	GCMS2_191213A
1912127-11B	TT-9@8'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 10:01 PM	GC4_191216A
1912127-11C	TT-9@8'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 04:07 PM	IC4_191217A
	TT-9@8'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	TT-9@8'	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 09:34 AM	GC15_191218A
1912127-12A	TT-10@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/14/19 01:33 AM	GCMS2_191213A
1912127-12B	TT-10@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	200	12/18/19 12:32 AM	GC4_191217A

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912127-12B	TT-10@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 12:12 PM	GC4_191217A
1912127-12C	TT-10@0-1'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 04:23 PM	IC4_191217A
	TT-10@0-1'	Soil	SW9056A	Anions by IC method - Soil	94148	1	12/17/19 08:57 PM	IC4_191217A
	TT-10@0-1'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	TT-10@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94145	10	12/18/19 11:14 AM	GC15_191218A
1912127-13A	TT-10@7'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 10:43 PM	GCMS2_191213A
1912127-13B	TT-10@7'	Soil	M8015V	TPH Purgeable by GC - Soil	94124	20	12/16/19 10:25 PM	GC4_191216A
1912127-13C	TT-10@7'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 04:39 PM	IC4_191217A
	TT-10@7'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	TT-10@7'	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 09:43 AM	GC15_191218A
1912127-14A	TT-10@12'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 11:11 PM	GCMS2_191213A
1912127-14B	TT-10@12'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 12:36 PM	GC4_191217A
	TT-10@12'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 11:21 PM	GC4_191217A
1912127-14C	TT-10@12'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 04:55 PM	IC4_191217A
	TT-10@12'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	TT-10@12'	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 09:52 AM	GC15_191218A
1912127-15A	AH-1@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	1000	12/17/19 03:11 PM	GCMS2_191217B
	AH-1@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/14/19 02:01 AM	GCMS2_191213A
	AH-1@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	500	12/15/19 12:36 AM	GCMS2_191214B
1912127-15B	AH-1@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94159	1000	12/18/19 11:06 AM	GC4_191218A
1912127-15C	AH-1@0-1'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 05:11 PM	IC4_191217A
	AH-1@0-1'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	AH-1@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94145	10	12/18/19 11:32 AM	GC15_191218A
	AH-1@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94145	100	12/18/19 01:26 PM	GC15_191218A
1912127-16A	AH-1@5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/13/19 11:40 PM	GCMS2_191213A
1912127-16B	AH-1@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 01:00 PM	GC4_191217A
1912127-16C	AH-1@5'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 05:27 PM	IC4_191217A
	AH-1@5'	Soil	SW9056A	Anions by IC method - Soil	94148	1	12/17/19 09:13 PM	IC4_191217A

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912127-16C	AH-1@5'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	AH-1@5'	Soil	M8015D	TPH Extractable by GC - Soil	94145	10	12/18/19 11:50 AM	GC15_191218A
1912127-17A	AH-2@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/14/19 02:29 AM	GCMS2_191213A
	AH-2@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	500	12/15/19 01:04 AM	GCMS2_191214B
1912127-17B	AH-2@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94159	1000	12/18/19 11:54 AM	GC4_191218A
1912127-17C	AH-2@0-1'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 05:45 PM	IC4_191217A
	AH-2@0-1'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	AH-2@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94145	10	12/18/19 12:08 PM	GC15_191218A
	AH-2@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94145	100	12/18/19 01:35 PM	GC15_191218A
1912127-18A	AH-2@5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/14/19 12:08 AM	GCMS2_191213A
1912127-18B	AH-2@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 01:24 PM	GC4_191217A
	AH-2@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 11:45 PM	GC4_191217A
1912127-18C	AH-2@5'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 06:01 PM	IC4_191217A
	AH-2@5'	Soil	SW9056A	Anions by IC method - Soil	94148	1	12/18/19 11:40 AM	IC4_191218A
	AH-2@5'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	AH-2@5'	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 10:16 AM	GC15_191218A
1912127-19A	AH-3@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/14/19 02:58 AM	GCMS2_191213A
	AH-3@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	500	12/15/19 01:33 AM	GCMS2_191214B
1912127-19B	AH-3@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94159	1000	12/18/19 12:42 PM	GC4_191218A
1912127-19C	AH-3@0-1'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 07:37 PM	IC4_191217A
	AH-3@0-1'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	AH-3@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94145	10	12/18/19 12:26 PM	GC15_191218A
	AH-3@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94145	100	12/18/19 01:44 PM	GC15_191218A
1912127-20A	AH-3@5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/14/19 12:36 AM	GCMS2_191213A
1912127-20B	AH-3@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 01:48 PM	GC4_191217A
1912127-20C	AH-3@5'	Soil	SW9056A	Anions by IC method - Soil	94148	1	12/18/19 11:56 AM	IC4_191218A
	AH-3@5'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 07:53 PM	IC4_191217A
	AH-3@5'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912127-20C	AH-3@5'	Soil	M8015D	TPH Extractable by GC - Soil	94145	1	12/18/19 10:25 AM	GC15_191218A
1912127-21A	AH-4@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	50	12/14/19 03:26 AM	GCMS2_191213A
	AH-4@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94111	500	12/15/19 02:01 AM	GCMS2_191214B
1912127-21B	AH-4@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94159	1000	12/18/19 01:30 PM	GC4_191218A
1912127-21C	AH-4@0-1'	Soil	SW9056A	Anions by IC method - Soil	94148	10	12/17/19 08:09 PM	IC4_191217A
	AH-4@0-1'	Soil	SW9056A	Anions by IC method - Soil	94148	1	12/18/19 12:12 PM	IC4_191218A
	AH-4@0-1'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	AH-4@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94145	10	12/18/19 12:44 PM	GC15_191218A
	AH-4@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94145	100	12/18/19 01:53 PM	GC15_191218A
1912127-22A	AH-4@5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	50	12/16/19 11:59 AM	GCMS2_191216A
1912127-22B	AH-4@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 02:12 PM	GC4_191217A
1912127-22C	AH-4@5'	Soil	SW9056A	Anions by IC method - Soil	94158	10	12/18/19 12:56 PM	IC4_191218A
	AH-4@5'	Soil	SW9056A	Anions by IC method - Soil	94158	1	12/18/19 05:00 PM	IC4_191218A
	AH-4@5'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	AH-4@5'	Soil	M8015D	TPH Extractable by GC - Soil	94166	1	12/19/19 01:50 PM	GC15_191219A
1912127-23A	AH-5@0-1'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	50	12/16/19 01:23 PM	GCMS2_191216A
1912127-23B	AH-5@0-1'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 02:36 PM	GC4_191217A
1912127-23C	AH-5@0-1'	Soil	SW9056A	Anions by IC method - Soil	94158	10	12/18/19 01:12 PM	IC4_191218A
	AH-5@0-1'	Soil	SW9056A	Anions by IC method - Soil	94158	1	12/18/19 05:16 PM	IC4_191218A
	AH-5@0-1'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	AH-5@0-1'	Soil	M8015D	TPH Extractable by GC - Soil	94166	100	12/19/19 03:53 PM	GC15_191219A
1912127-24A	AH-5@5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	2000	12/16/19 01:52 PM	GCMS2_191216A
	AH-5@5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	50	12/16/19 07:31 PM	GCMS2_191216A
1912127-24B	AH-5@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 03:47 PM	GC4_191217A
	AH-5@5'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	200	12/18/19 12:56 AM	GC4_191217A
1912127-24C	AH-5@5'	Soil	SW9056A	Anions by IC method - Soil	94158	1	12/18/19 05:32 PM	IC4_191218A
	AH-5@5'	Soil	SW9056A	Anions by IC method - Soil	94158	10	12/18/19 01:28 PM	IC4_191218A
	AH-5@5'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A

Lab Order: 1912127
Client: TRC Environmental Corp.
Project: Millman Station

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912127-24C	AH-5@5'	Soil	M8015D	TPH Extractable by GC - Soil	94166	100	12/19/19 04:02 PM	GC15_191219A
1912127-25A	Stockpile	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	50	12/16/19 02:20 PM	GCMS2_191216A
1912127-25B	Stockpile	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 03:00 PM	GC4_191217A
	Stockpile	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/18/19 12:08 AM	GC4_191217A
1912127-25C	Stockpile	Soil	SW9056A	Anions by IC method - Soil	94158	10	12/18/19 01:44 PM	IC4_191218A
	Stockpile	Soil	SW9056A	Anions by IC method - Soil	94158	1	12/18/19 05:48 PM	IC4_191218A
	Stockpile	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	Stockpile	Soil	M8015D	TPH Extractable by GC - Soil	94166	10	12/19/19 05:40 PM	GC15_191219A
	Stockpile	Soil	M8015D	TPH Extractable by GC - Soil	94166	100	12/19/19 04:11 PM	GC15_191219A

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	TB-20191211
Project:	Millman Station	**Lab ID:**	1912127-01
Project No:		**Collection Date:**	12/11/19 05:00 PM
Lab Order:	1912127	**Matrix:**	TRIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE AROMATICS BY GC/MS		**SW8260D**					Analyst: **BTJ**
Benzene	<0.000800	0.000800	0.00200		mg/L	1	12/17/19 06:52 PM
Ethylbenzene	<0.00200	0.00200	0.00600		mg/L	1	12/17/19 06:52 PM
Toluene	<0.00200	0.00200	0.00600		mg/L	1	12/17/19 06:52 PM
Total Xylenes	<0.00200	0.00200	0.00600		mg/L	1	12/17/19 06:52 PM
Surr: 1,2-Dichloroethane-d4	101	0	72-119		%REC	1	12/17/19 06:52 PM
Surr: 4-Bromofluorobenzene	97.5	0	76-119		%REC	1	12/17/19 06:52 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	12/17/19 06:52 PM
Surr: Toluene-d8	99.7	0	81-120		%REC	1	12/17/19 06:52 PM

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAP certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Client Sample ID: Dup-2
Project: Millman Station
Lab ID: 1912127-02
Project No:
Collection Date: 12/11/19
Lab Order: 1912127
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<3.13	3.13	10.4		mg/Kg-dry	1	12/18/19 08:04 AM
TPH-ORO >C28-C35	<3.13	3.13	10.4		mg/Kg-dry	1	12/18/19 08:04 AM
Surr: Isopropylbenzene	76.8	0	47-142		%REC	1	12/18/19 08:04 AM
Surr: Octacosane	76.0	0	25-162		%REC	1	12/18/19 08:04 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<1.99	1.99	3.98		mg/Kg-dry	20	12/16/19 02:03 PM
Surr: Tetrachlorethene	116	0	70-134		%REC	20	12/16/19 02:03 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0497	0.0497	0.249		mg/Kg-dry	50	12/13/19 05:32 PM
Ethylbenzene	<0.0497	0.0497	0.249		mg/Kg-dry	50	12/13/19 05:32 PM
Toluene	<0.0497	0.0497	0.249		mg/Kg-dry	50	12/13/19 05:32 PM
Xylenes, Total	<0.0497	0.0497	0.249		mg/Kg-dry	50	12/13/19 05:32 PM
Surr: 1,2-Dichloroethane-d4	90.1	0	52-149		%REC	50	12/13/19 05:32 PM
Surr: 4-Bromofluorobenzene	94.7	0	84-118		%REC	50	12/13/19 05:32 PM
Surr: Dibromofluoromethane	94.0	0	65-135		%REC	50	12/13/19 05:32 PM
Surr: Toluene-d8	96.9	0	84-116		%REC	50	12/13/19 05:32 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	1320	20.9	52.3		mg/Kg-dry	10	12/17/19 12:10 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	7.95	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Client Sample ID: Dup-3
Project: Millman Station
Lab ID: 1912127-03
Project No:
Collection Date: 12/11/19
Lab Order: 1912127
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<3.15	3.15	10.5		mg/Kg-dry	1	12/18/19 08:13 AM
TPH-ORO >C28-C35	<3.15	3.15	10.5		mg/Kg-dry	1	12/18/19 08:13 AM
Surr: Isopropylbenzene	88.2	0	47-142		%REC	1	12/18/19 08:13 AM
Surr: Octacosane	81.7	0	25-162		%REC	1	12/18/19 08:13 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	4.68	2.05	4.11		mg/Kg-dry	20	12/16/19 07:14 PM
Surr: Tetrachlorethene	112	0	70-134		%REC	20	12/16/19 07:14 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0513	0.0513	0.257		mg/Kg-dry	50	12/13/19 06:57 PM
Ethylbenzene	<0.0513	0.0513	0.257		mg/Kg-dry	50	12/13/19 06:57 PM
Toluene	<0.0513	0.0513	0.257		mg/Kg-dry	50	12/13/19 06:57 PM
Xylenes, Total	<0.0513	0.0513	0.257		mg/Kg-dry	50	12/13/19 06:57 PM
Surr: 1,2-Dichloroethane-d4	92.1	0	52-149		%REC	50	12/13/19 06:57 PM
Surr: 4-Bromofluorobenzene	91.8	0	84-118		%REC	50	12/13/19 06:57 PM
Surr: Dibromofluoromethane	97.2	0	65-135		%REC	50	12/13/19 06:57 PM
Surr: Toluene-d8	93.3	0	84-116		%REC	50	12/13/19 06:57 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	1790	21.0	52.5		mg/Kg-dry	10	12/17/19 12:26 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	7.21	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: Dup-4
Lab ID: 1912127-04
Collection Date: 12/11/19
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	7.48	3.11	10.4	J	mg/Kg-dry	1	12/18/19 08:40 AM
TPH-ORO >C28-C35	<3.11	3.11	10.4		mg/Kg-dry	1	12/18/19 08:40 AM
Surr: Isopropylbenzene	90.9	0	47-142		%REC	1	12/18/19 08:40 AM
Surr: Octacosane	89.1	0	25-162		%REC	1	12/18/19 08:40 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<1.96	1.96	3.91		mg/Kg-dry	20	12/16/19 07:38 PM
Surr: Tetrachlorethene	95.1	0	70-134		%REC	20	12/16/19 07:38 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0489	0.0489	0.245		mg/Kg-dry	50	12/13/19 07:25 PM
Ethylbenzene	<0.0489	0.0489	0.245		mg/Kg-dry	50	12/13/19 07:25 PM
Toluene	<0.0489	0.0489	0.245		mg/Kg-dry	50	12/13/19 07:25 PM
Xylenes, Total	<0.0489	0.0489	0.245		mg/Kg-dry	50	12/13/19 07:25 PM
Surr: 1,2-Dichloroethane-d4	90.7	0	52-149		%REC	50	12/13/19 07:25 PM
Surr: 4-Bromofluorobenzene	94.5	0	84-118		%REC	50	12/13/19 07:25 PM
Surr: Dibromofluoromethane	98.3	0	65-135		%REC	50	12/13/19 07:25 PM
Surr: Toluene-d8	94.2	0	84-116		%REC	50	12/13/19 07:25 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	3.38	2.06	5.15	J	mg/Kg-dry	1	12/17/19 08:25 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	5.70	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: TT-7@12'
Lab ID: 1912127-05
Collection Date: 12/11/19 08:15 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	3.86	3.06	10.2	J	mg/Kg-dry	1	12/18/19 08:49 AM
TPH-ORO >C28-C35	<3.06	3.06	10.2		mg/Kg-dry	1	12/18/19 08:49 AM
Surr: Isopropylbenzene	70.1	0	47-142		%REC	1	12/18/19 08:49 AM
Surr: Octacosane	70.0	0	25-162		%REC	1	12/18/19 08:49 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.79	2.79	5.57		mg/Kg-dry	20	12/16/19 08:02 PM
Surr: Tetrachlorethene	107	0	70-134		%REC	20	12/16/19 08:02 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0696	0.0696	0.348		mg/Kg-dry	50	12/13/19 07:54 PM
Ethylbenzene	<0.0696	0.0696	0.348		mg/Kg-dry	50	12/13/19 07:54 PM
Toluene	<0.0696	0.0696	0.348		mg/Kg-dry	50	12/13/19 07:54 PM
Xylenes, Total	<0.0696	0.0696	0.348		mg/Kg-dry	50	12/13/19 07:54 PM
Surr: 1,2-Dichloroethane-d4	89.2	0	52-149		%REC	50	12/13/19 07:54 PM
Surr: 4-Bromofluorobenzene	90.5	0	84-118		%REC	50	12/13/19 07:54 PM
Surr: Dibromofluoromethane	96.1	0	65-135		%REC	50	12/13/19 07:54 PM
Surr: Toluene-d8	95.8	0	84-116		%REC	50	12/13/19 07:54 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	62.8	19.9	49.6		mg/Kg-dry	10	12/17/19 12:58 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	4.78	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: TT-8@0-1'
Lab ID: 1912127-06
Collection Date: 12/11/19 09:00 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<3.05	3.05	10.2		mg/Kg-dry	1	12/18/19 08:58 AM
TPH-ORO >C28-C35	<3.05	3.05	10.2		mg/Kg-dry	1	12/18/19 08:58 AM
Surr: Isopropylbenzene	83.2	0	47-142		%REC	1	12/18/19 08:58 AM
Surr: Octacosane	76.9	0	25-162		%REC	1	12/18/19 08:58 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<1.87	1.87	3.74		mg/Kg-dry	20	12/16/19 08:26 PM
Surr: Tetrachlorethene	115	0	70-134		%REC	20	12/16/19 08:26 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0468	0.0468	0.234		mg/Kg-dry	50	12/13/19 08:22 PM
Ethylbenzene	<0.0468	0.0468	0.234		mg/Kg-dry	50	12/13/19 08:22 PM
Toluene	<0.0468	0.0468	0.234		mg/Kg-dry	50	12/13/19 08:22 PM
Xylenes, Total	<0.0468	0.0468	0.234		mg/Kg-dry	50	12/13/19 08:22 PM
Surr: 1,2-Dichloroethane-d4	89.8	0	52-149		%REC	50	12/13/19 08:22 PM
Surr: 4-Bromofluorobenzene	94.2	0	84-118		%REC	50	12/13/19 08:22 PM
Surr: Dibromofluoromethane	95.8	0	65-135		%REC	50	12/13/19 08:22 PM
Surr: Toluene-d8	92.6	0	84-116		%REC	50	12/13/19 08:22 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	1650	21.1	52.7		mg/Kg-dry	10	12/17/19 01:14 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	8.16	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: TT-8@7'
Lab ID: 1912127-07
Collection Date: 12/11/19 09:12 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<3.17	3.17	10.6		mg/Kg-dry	1	12/18/19 09:07 AM
TPH-ORO >C28-C35	<3.17	3.17	10.6		mg/Kg-dry	1	12/18/19 09:07 AM
Surr: Isopropylbenzene	83.4	0	47-142		%REC	1	12/18/19 09:07 AM
Surr: Octacosane	77.3	0	25-162		%REC	1	12/18/19 09:07 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.15	2.15	4.30		mg/Kg-dry	20	12/16/19 08:50 PM
Surr: Tetrachlorethene	123	0	70-134		%REC	20	12/16/19 08:50 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0537	0.0537	0.269		mg/Kg-dry	50	12/13/19 08:50 PM
Ethylbenzene	<0.0537	0.0537	0.269		mg/Kg-dry	50	12/13/19 08:50 PM
Toluene	<0.0537	0.0537	0.269		mg/Kg-dry	50	12/13/19 08:50 PM
Xylenes, Total	<0.0537	0.0537	0.269		mg/Kg-dry	50	12/13/19 08:50 PM
Surr: 1,2-Dichloroethane-d4	92.3	0	52-149		%REC	50	12/13/19 08:50 PM
Surr: 4-Bromofluorobenzene	97.1	0	84-118		%REC	50	12/13/19 08:50 PM
Surr: Dibromofluoromethane	98.0	0	65-135		%REC	50	12/13/19 08:50 PM
Surr: Toluene-d8	92.6	0	84-116		%REC	50	12/13/19 08:50 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	1720	19.8	49.5		mg/Kg-dry	10	12/17/19 01:30 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	7.15	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: TT-8@11'
Lab ID: 1912127-08
Collection Date: 12/11/19 09:20 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<3.12	3.12	10.4		mg/Kg-dry	1	12/18/19 09:16 AM
TPH-ORO >C28-C35	<3.12	3.12	10.4		mg/Kg-dry	1	12/18/19 09:16 AM
Surr: Isopropylbenzene	82.1	0	47-142		%REC	1	12/18/19 09:16 AM
Surr: Octacosane	76.8	0	25-162		%REC	1	12/18/19 09:16 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<1.96	1.96	3.91		mg/Kg-dry	20	12/16/19 09:13 PM
Surr: Tetrachlorethene	119	0	70-134		%REC	20	12/16/19 09:13 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0489	0.0489	0.245		mg/Kg-dry	50	12/13/19 09:18 PM
Ethylbenzene	<0.0489	0.0489	0.245		mg/Kg-dry	50	12/13/19 09:18 PM
Toluene	<0.0489	0.0489	0.245		mg/Kg-dry	50	12/13/19 09:18 PM
Xylenes, Total	<0.0489	0.0489	0.245		mg/Kg-dry	50	12/13/19 09:18 PM
Surr: 1,2-Dichloroethane-d4	88.5	0	52-149		%REC	50	12/13/19 09:18 PM
Surr: 4-Bromofluorobenzene	91.4	0	84-118		%REC	50	12/13/19 09:18 PM
Surr: Dibromofluoromethane	98.7	0	65-135		%REC	50	12/13/19 09:18 PM
Surr: Toluene-d8	97.7	0	84-116		%REC	50	12/13/19 09:18 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	2660	22.0	55.0		mg/Kg-dry	10	12/17/19 01:46 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	9.85	0	0		WT%	1	12/17/19 08:54 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
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DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: TT-9@0-1'
Lab ID: 1912127-09
Collection Date: 12/11/19 09:30 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	1260	31.1	104		mg/Kg-dry	10	12/18/19 10:55 AM
TPH-ORO >C28-C35	125	31.1	104		mg/Kg-dry	10	12/18/19 10:55 AM
Surr: Isopropylbenzene	90.8	0	47-142		%REC	10	12/18/19 10:55 AM
Surr: Octacosane	446	0	25-162	S	%REC	10	12/18/19 10:55 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	1420	99.2	198		mg/Kg-dry	1000	12/18/19 10:19 AM
Surr: Tetrachlorethene	113	0	70-134		%REC	1000	12/18/19 10:19 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	3.48	0.0496	0.248		mg/Kg-dry	50	12/14/19 01:05 AM
Ethylbenzene	8.16	0.0496	0.248		mg/Kg-dry	50	12/14/19 01:05 AM
Toluene	72.0	0.496	2.48		mg/Kg-dry	500	12/15/19 12:08 AM
Xylenes, Total	30.3	0.0496	0.248		mg/Kg-dry	50	12/14/19 01:05 AM
Surr: 1,2-Dichloroethane-d4	86.0	0	52-149		%REC	50	12/14/19 01:05 AM
Surr: 1,2-Dichloroethane-d4	87.6	0	52-149		%REC	500	12/15/19 12:08 AM
Surr: 4-Bromofluorobenzene	107	0	84-118		%REC	50	12/14/19 01:05 AM
Surr: 4-Bromofluorobenzene	100	0	84-118		%REC	500	12/15/19 12:08 AM
Surr: Dibromofluoromethane	95.2	0	65-135		%REC	50	12/14/19 01:05 AM
Surr: Dibromofluoromethane	98.8	0	65-135		%REC	500	12/15/19 12:08 AM
Surr: Toluene-d8	114	0	84-116		%REC	50	12/14/19 01:05 AM
Surr: Toluene-d8	105	0	84-116		%REC	500	12/15/19 12:08 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	21.1	2.11	5.27		mg/Kg-dry	1	12/17/19 08:41 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	9.22	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
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See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: TT-9@4'
Lab ID: 1912127-10
Collection Date: 12/11/19 09:36 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<3.01	3.01	10.0		mg/Kg-dry	1	12/18/19 09:25 AM
TPH-ORO >C28-C35	<3.01	3.01	10.0		mg/Kg-dry	1	12/18/19 09:25 AM
Surr: Isopropylbenzene	82.9	0	47-142		%REC	1	12/18/19 09:25 AM
Surr: Octacosane	78.4	0	25-162		%REC	1	12/18/19 09:25 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.22	2.22	4.44		mg/Kg-dry	20	12/16/19 09:37 PM
Surr: Tetrachlorethene	120	0	70-134		%REC	20	12/16/19 09:37 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0555	0.0555	0.277		mg/Kg-dry	50	12/13/19 09:47 PM
Ethylbenzene	<0.0555	0.0555	0.277		mg/Kg-dry	50	12/13/19 09:47 PM
Toluene	<0.0555	0.0555	0.277		mg/Kg-dry	50	12/13/19 09:47 PM
Xylenes, Total	<0.0555	0.0555	0.277		mg/Kg-dry	50	12/13/19 09:47 PM
Surr: 1,2-Dichloroethane-d4	90.2	0	52-149		%REC	50	12/13/19 09:47 PM
Surr: 4-Bromofluorobenzene	91.7	0	84-118		%REC	50	12/13/19 09:47 PM
Surr: Dibromofluoromethane	94.7	0	65-135		%REC	50	12/13/19 09:47 PM
Surr: Toluene-d8	93.5	0	84-116		%REC	50	12/13/19 09:47 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	672	21.0	52.6		mg/Kg-dry	10	12/17/19 03:51 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	6.10	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: TT-9@8'
Lab ID: 1912127-11
Collection Date: 12/11/19 09:44 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<3.07	3.07	10.2		mg/Kg-dry	1	12/18/19 09:34 AM
TPH-ORO >C28-C35	<3.07	3.07	10.2		mg/Kg-dry	1	12/18/19 09:34 AM
Surr: Isopropylbenzene	84.5	0	47-142		%REC	1	12/18/19 09:34 AM
Surr: Octacosane	80.9	0	25-162		%REC	1	12/18/19 09:34 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.09	2.09	4.18		mg/Kg-dry	20	12/16/19 10:01 PM
Surr: Tetrachlorethene	119	0	70-134		%REC	20	12/16/19 10:01 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0522	0.0522	0.261		mg/Kg-dry	50	12/13/19 10:15 PM
Ethylbenzene	<0.0522	0.0522	0.261		mg/Kg-dry	50	12/13/19 10:15 PM
Toluene	<0.0522	0.0522	0.261		mg/Kg-dry	50	12/13/19 10:15 PM
Xylenes, Total	<0.0522	0.0522	0.261		mg/Kg-dry	50	12/13/19 10:15 PM
Surr: 1,2-Dichloroethane-d4	87.7	0	52-149		%REC	50	12/13/19 10:15 PM
Surr: 4-Bromofluorobenzene	94.0	0	84-118		%REC	50	12/13/19 10:15 PM
Surr: Dibromofluoromethane	95.2	0	65-135		%REC	50	12/13/19 10:15 PM
Surr: Toluene-d8	95.0	0	84-116		%REC	50	12/13/19 10:15 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	109	20.3	50.7		mg/Kg-dry	10	12/17/19 04:07 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	4.95	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: TT-10@0-1'
Lab ID: 1912127-12
Collection Date: 12/11/19 10:15 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	1020	29.8	99.4		mg/Kg-dry	10	12/18/19 11:14 AM
TPH-ORO >C28-C35	103	29.8	99.4		mg/Kg-dry	10	12/18/19 11:14 AM
Surr: Isopropylbenzene	93.8	0	47-142		%REC	10	12/18/19 11:14 AM
Surr: Octacosane	390	0	25-162	S	%REC	10	12/18/19 11:14 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	749	20.6	41.1		mg/Kg-dry	200	12/18/19 12:32 AM
Surr: Tetrachlorethene	90.2	0	70-134		%REC	200	12/18/19 12:32 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	1.65	0.0514	0.257		mg/Kg-dry	50	12/14/19 01:33 AM
Ethylbenzene	4.65	0.0514	0.257		mg/Kg-dry	50	12/14/19 01:33 AM
Toluene	13.3	0.0514	0.257		mg/Kg-dry	50	12/14/19 01:33 AM
Xylenes, Total	18.7	0.0514	0.257		mg/Kg-dry	50	12/14/19 01:33 AM
Surr: 1,2-Dichloroethane-d4	84.8	0	52-149		%REC	50	12/14/19 01:33 AM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	50	12/14/19 01:33 AM
Surr: Dibromofluoromethane	93.1	0	65-135		%REC	50	12/14/19 01:33 AM
Surr: Toluene-d8	108	0	84-116		%REC	50	12/14/19 01:33 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	22.5	1.97	4.92		mg/Kg-dry	1	12/17/19 08:57 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	4.31	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

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N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: TT-10@7'
Lab ID: 1912127-13
Collection Date: 12/11/19 10:27 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<3.16	3.16	10.5		mg/Kg-dry	1	12/18/19 09:43 AM
TPH-ORO >C28-C35	<3.16	3.16	10.5		mg/Kg-dry	1	12/18/19 09:43 AM
Surr: Isopropylbenzene	80.0	0	47-142		%REC	1	12/18/19 09:43 AM
Surr: Octacosane	78.9	0	25-162		%REC	1	12/18/19 09:43 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.18	2.18	4.36		mg/Kg-dry	20	12/16/19 10:25 PM
Surr: Tetrachlorethene	108	0	70-134		%REC	20	12/16/19 10:25 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0545	0.0545	0.273		mg/Kg-dry	50	12/13/19 10:43 PM
Ethylbenzene	<0.0545	0.0545	0.273		mg/Kg-dry	50	12/13/19 10:43 PM
Toluene	<0.0545	0.0545	0.273		mg/Kg-dry	50	12/13/19 10:43 PM
Xylenes, Total	<0.0545	0.0545	0.273		mg/Kg-dry	50	12/13/19 10:43 PM
Surr: 1,2-Dichloroethane-d4	90.0	0	52-149		%REC	50	12/13/19 10:43 PM
Surr: 4-Bromofluorobenzene	93.9	0	84-118		%REC	50	12/13/19 10:43 PM
Surr: Dibromofluoromethane	96.5	0	65-135		%REC	50	12/13/19 10:43 PM
Surr: Toluene-d8	94.3	0	84-116		%REC	50	12/13/19 10:43 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	366	21.8	54.4		mg/Kg-dry	10	12/17/19 04:39 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	9.19	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: TT-10@12'
Lab ID: 1912127-14
Collection Date: 12/11/19 10:37 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	<3.19	3.19	10.6		mg/Kg-dry	1	12/18/19 09:52 AM
TPH-ORO >C28-C35	<3.19	3.19	10.6		mg/Kg-dry	1	12/18/19 09:52 AM
Surr: Isopropylbenzene	82.1	0	47-142		%REC	1	12/18/19 09:52 AM
Surr: Octacosane	78.0	0	25-162		%REC	1	12/18/19 09:52 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.16	2.16	4.32		mg/Kg-dry	20	12/17/19 11:21 PM
Surr: Tetrachlorethene	109	0	70-134		%REC	20	12/17/19 11:21 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0541	0.0541	0.270		mg/Kg-dry	50	12/13/19 11:11 PM
Ethylbenzene	<0.0541	0.0541	0.270		mg/Kg-dry	50	12/13/19 11:11 PM
Toluene	<0.0541	0.0541	0.270		mg/Kg-dry	50	12/13/19 11:11 PM
Xylenes, Total	<0.0541	0.0541	0.270		mg/Kg-dry	50	12/13/19 11:11 PM
Surr: 1,2-Dichloroethane-d4	92.3	0	52-149		%REC	50	12/13/19 11:11 PM
Surr: 4-Bromofluorobenzene	95.0	0	84-118		%REC	50	12/13/19 11:11 PM
Surr: Dibromofluoromethane	99.1	0	65-135		%REC	50	12/13/19 11:11 PM
Surr: Toluene-d8	96.0	0	84-116		%REC	50	12/13/19 11:11 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	497	20.5	51.3		mg/Kg-dry	10	12/17/19 04:55 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	7.14	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: AH-1@0-1'
Lab ID: 1912127-15
Collection Date: 12/11/19 11:00 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	14300	328	1090		mg/Kg-dry	100	12/18/19 01:26 PM
TPH-ORO >C28-C35	1680	328	1090		mg/Kg-dry	100	12/18/19 01:26 PM
Surr: Isopropylbenzene	771	0	47-142	S	%REC	100	12/18/19 01:26 PM
Surr: Octacosane	2220	0	25-162	S	%REC	100	12/18/19 01:26 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	9150	97.0	194		mg/Kg-dry	1000	12/18/19 11:06 AM
Surr: Tetrachlorethene	78.9	0	70-134		%REC	1000	12/18/19 11:06 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	5.47	0.0485	0.243		mg/Kg-dry	50	12/14/19 02:01 AM
Ethylbenzene	70.1	0.485	2.43		mg/Kg-dry	500	12/15/19 12:36 AM
Toluene	169	0.970	4.85		mg/Kg-dry	1000	12/17/19 03:11 PM
Xylenes, Total	286	0.485	2.43		mg/Kg-dry	500	12/15/19 12:36 AM
Surr: 1,2-Dichloroethane-d4	85.1	0	52-149		%REC	500	12/15/19 12:36 AM
Surr: 1,2-Dichloroethane-d4	87.8	0	52-149		%REC	50	12/14/19 02:01 AM
Surr: 1,2-Dichloroethane-d4	89.4	0	52-149		%REC	1000	12/17/19 03:11 PM
Surr: 4-Bromofluorobenzene	133	0	84-118	S	%REC	1000	12/17/19 03:11 PM
Surr: 4-Bromofluorobenzene	133	0	84-118	S	%REC	50	12/14/19 02:01 AM
Surr: 4-Bromofluorobenzene	100	0	84-118		%REC	500	12/15/19 12:36 AM
Surr: Dibromofluoromethane	89.6	0	65-135		%REC	50	12/14/19 02:01 AM
Surr: Dibromofluoromethane	94.4	0	65-135		%REC	1000	12/17/19 03:11 PM
Surr: Dibromofluoromethane	94.1	0	65-135		%REC	500	12/15/19 12:36 AM
Surr: Toluene-d8	169	0	84-116	S	%REC	50	12/14/19 02:01 AM
Surr: Toluene-d8	131	0	84-116	S	%REC	1000	12/17/19 03:11 PM
Surr: Toluene-d8	109	0	84-116		%REC	500	12/15/19 12:36 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	935	21.1	52.7		mg/Kg-dry	10	12/17/19 05:11 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	9.45	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: AH-1@5'
Lab ID: 1912127-16
Collection Date: 12/11/19 11:08 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	386	33.3	111		mg/Kg-dry	10	12/18/19 11:50 AM
TPH-ORO >C28-C35	217	33.3	111		mg/Kg-dry	10	12/18/19 11:50 AM
Surr: Isopropylbenzene	95.1	0	47-142		%REC	10	12/18/19 11:50 AM
Surr: Octacosane	477	0	25-162	S	%REC	10	12/18/19 11:50 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	45.6	1.95	3.90		mg/Kg-dry	20	12/17/19 01:00 PM
Surr: Tetrachlorethene	76.8	0	70-134		%REC	20	12/17/19 01:00 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	0.0776	0.0488	0.244	J	mg/Kg-dry	50	12/13/19 11:40 PM
Ethylbenzene	0.399	0.0488	0.244		mg/Kg-dry	50	12/13/19 11:40 PM
Toluene	1.02	0.0488	0.244		mg/Kg-dry	50	12/13/19 11:40 PM
Xylenes, Total	1.83	0.0488	0.244		mg/Kg-dry	50	12/13/19 11:40 PM
Surr: 1,2-Dichloroethane-d4	85.4	0	52-149		%REC	50	12/13/19 11:40 PM
Surr: 4-Bromofluorobenzene	90.1	0	84-118		%REC	50	12/13/19 11:40 PM
Surr: Dibromofluoromethane	94.3	0	65-135		%REC	50	12/13/19 11:40 PM
Surr: Toluene-d8	99.9	0	84-116		%REC	50	12/13/19 11:40 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	41.1	2.14	5.34		mg/Kg-dry	1	12/17/19 09:13 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	13.3	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

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N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: AH-2@0-1'
Lab ID: 1912127-17
Collection Date: 12/11/19 11:20 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	12900	312	1040		mg/Kg-dry	100	12/18/19 01:35 PM
TPH-ORO >C28-C35	1720	312	1040		mg/Kg-dry	100	12/18/19 01:35 PM
Surr: Isopropylbenzene	582	0	47-142	S	%REC	100	12/18/19 01:35 PM
Surr: Octacosane	1980	0	25-162	S	%REC	100	12/18/19 01:35 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	5870	95.1	190		mg/Kg-dry	1000	12/18/19 11:54 AM
Surr: Tetrachlorethene	89.7	0	70-134		%REC	1000	12/18/19 11:54 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	0.242	0.0475	0.238		mg/Kg-dry	50	12/14/19 02:29 AM
Ethylbenzene	45.6	0.475	2.38		mg/Kg-dry	500	12/15/19 01:04 AM
Toluene	98.0	0.475	2.38		mg/Kg-dry	500	12/15/19 01:04 AM
Xylenes, Total	181	0.475	2.38		mg/Kg-dry	500	12/15/19 01:04 AM
Surr: 1,2-Dichloroethane-d4	86.3	0	52-149		%REC	50	12/14/19 02:29 AM
Surr: 1,2-Dichloroethane-d4	88.6	0	52-149		%REC	500	12/15/19 01:04 AM
Surr: 4-Bromofluorobenzene	98.0	0	84-118		%REC	500	12/15/19 01:04 AM
Surr: 4-Bromofluorobenzene	126	0	84-118	S	%REC	50	12/14/19 02:29 AM
Surr: Dibromofluoromethane	97.1	0	65-135		%REC	500	12/15/19 01:04 AM
Surr: Dibromofluoromethane	91.5	0	65-135		%REC	50	12/14/19 02:29 AM
Surr: Toluene-d8	152	0	84-116	S	%REC	50	12/14/19 02:29 AM
Surr: Toluene-d8	104	0	84-116		%REC	500	12/15/19 01:04 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	185	20.9	52.2		mg/Kg-dry	10	12/17/19 05:45 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	6.59	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

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DF- Dilution Factor
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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: AH-2@5'
Lab ID: 1912127-18
Collection Date: 12/11/19 11:28 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	142	3.23	10.8		mg/Kg-dry	1	12/18/19 10:16 AM
TPH-ORO >C28-C35	34.2	3.23	10.8		mg/Kg-dry	1	12/18/19 10:16 AM
Surr: Isopropylbenzene	80.7	0	47-142		%REC	1	12/18/19 10:16 AM
Surr: Octacosane	139	0	25-162		%REC	1	12/18/19 10:16 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	6.95	2.04	4.08		mg/Kg-dry	20	12/17/19 11:45 PM
Surr: Tetrachlorethene	112	0	70-134		%REC	20	12/17/19 11:45 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0510	0.0510	0.255		mg/Kg-dry	50	12/14/19 12:08 AM
Ethylbenzene	<0.0510	0.0510	0.255		mg/Kg-dry	50	12/14/19 12:08 AM
Toluene	<0.0510	0.0510	0.255		mg/Kg-dry	50	12/14/19 12:08 AM
Xylenes, Total	<0.0510	0.0510	0.255		mg/Kg-dry	50	12/14/19 12:08 AM
Surr: 1,2-Dichloroethane-d4	90.3	0	52-149		%REC	50	12/14/19 12:08 AM
Surr: 4-Bromofluorobenzene	90.0	0	84-118		%REC	50	12/14/19 12:08 AM
Surr: Dibromofluoromethane	96.0	0	65-135		%REC	50	12/14/19 12:08 AM
Surr: Toluene-d8	94.7	0	84-116		%REC	50	12/14/19 12:08 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	6.14	2.14	5.34		mg/Kg-dry	1	12/18/19 11:40 AM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	11.0	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: AH-3@0-1'
Lab ID: 1912127-19
Collection Date: 12/11/19 11:36 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	18200	306	1020		mg/Kg-dry	100	12/18/19 01:44 PM
TPH-ORO >C28-C35	2140	306	1020		mg/Kg-dry	100	12/18/19 01:44 PM
Surr: Isopropylbenzene	806	0	47-142	S	%REC	100	12/18/19 01:44 PM
Surr: Octacosane	2850	0	25-162	S	%REC	100	12/18/19 01:44 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	8270	99.2	198		mg/Kg-dry	1000	12/18/19 12:42 PM
Surr: Tetrachlorethene	87.5	0	70-134		%REC	1000	12/18/19 12:42 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	9.82	0.0496	0.248		mg/Kg-dry	50	12/14/19 02:58 AM
Ethylbenzene	59.0	0.496	2.48		mg/Kg-dry	500	12/15/19 01:33 AM
Toluene	166	0.496	2.48		mg/Kg-dry	500	12/15/19 01:33 AM
Xylenes, Total	230	0.496	2.48		mg/Kg-dry	500	12/15/19 01:33 AM
Surr: 1,2-Dichloroethane-d4	83.8	0	52-149		%REC	50	12/14/19 02:58 AM
Surr: 1,2-Dichloroethane-d4	85.8	0	52-149		%REC	500	12/15/19 01:33 AM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	500	12/15/19 01:33 AM
Surr: 4-Bromofluorobenzene	133	0	84-118	S	%REC	50	12/14/19 02:58 AM
Surr: Dibromofluoromethane	96.9	0	65-135		%REC	500	12/15/19 01:33 AM
Surr: Dibromofluoromethane	90.4	0	65-135		%REC	50	12/14/19 02:58 AM
Surr: Toluene-d8	165	0	84-116	S	%REC	50	12/14/19 02:58 AM
Surr: Toluene-d8	110	0	84-116		%REC	500	12/15/19 01:33 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	113	20.6	51.6		mg/Kg-dry	10	12/17/19 07:37 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	7.54	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

ND - Not Detected at the SDL
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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: AH-3@5'
Lab ID: 1912127-20
Collection Date: 12/11/19 11:44 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	70.5	3.30	11.0		mg/Kg-dry	1	12/18/19 10:25 AM
TPH-ORO >C28-C35	20.5	3.30	11.0		mg/Kg-dry	1	12/18/19 10:25 AM
Surr: Isopropylbenzene	81.3	0	47-142		%REC	1	12/18/19 10:25 AM
Surr: Octacosane	111	0	25-162		%REC	1	12/18/19 10:25 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	9.33	2.15	4.30		mg/Kg-dry	20	12/17/19 01:48 PM
Surr: Tetrachlorethene	107	0	70-134		%REC	20	12/17/19 01:48 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0537	0.0537	0.269		mg/Kg-dry	50	12/14/19 12:36 AM
Ethylbenzene	<0.0537	0.0537	0.269		mg/Kg-dry	50	12/14/19 12:36 AM
Toluene	<0.0537	0.0537	0.269		mg/Kg-dry	50	12/14/19 12:36 AM
Xylenes, Total	<0.0537	0.0537	0.269		mg/Kg-dry	50	12/14/19 12:36 AM
Surr: 1,2-Dichloroethane-d4	86.9	0	52-149		%REC	50	12/14/19 12:36 AM
Surr: 4-Bromofluorobenzene	94.1	0	84-118		%REC	50	12/14/19 12:36 AM
Surr: Dibromofluoromethane	96.6	0	65-135		%REC	50	12/14/19 12:36 AM
Surr: Toluene-d8	97.6	0	84-116		%REC	50	12/14/19 12:36 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	8.79	2.20	5.51		mg/Kg-dry	1	12/18/19 11:56 AM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	11.5	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: AH-4@0-1'
Lab ID: 1912127-21
Collection Date: 12/11/19 11:52 AM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	11800	325	1080		mg/Kg-dry	100	12/18/19 01:53 PM
TPH-ORO >C28-C35	1240	325	1080		mg/Kg-dry	100	12/18/19 01:53 PM
Surr: Isopropylbenzene	584	0	47-142	S	%REC	100	12/18/19 01:53 PM
Surr: Octacosane	1720	0	25-162	S	%REC	100	12/18/19 01:53 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	5520	97.3	195		mg/Kg-dry	1000	12/18/19 01:30 PM
Surr: Tetrachlorethene	93.5	0	70-134		%REC	1000	12/18/19 01:30 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	15.8	0.0487	0.243		mg/Kg-dry	50	12/14/19 03:26 AM
Ethylbenzene	50.9	0.487	2.43		mg/Kg-dry	500	12/15/19 02:01 AM
Toluene	140	0.487	2.43		mg/Kg-dry	500	12/15/19 02:01 AM
Xylenes, Total	193	0.487	2.43		mg/Kg-dry	500	12/15/19 02:01 AM
Surr: 1,2-Dichloroethane-d4	86.1	0	52-149		%REC	50	12/14/19 03:26 AM
Surr: 1,2-Dichloroethane-d4	87.3	0	52-149		%REC	500	12/15/19 02:01 AM
Surr: 4-Bromofluorobenzene	97.1	0	84-118		%REC	500	12/15/19 02:01 AM
Surr: 4-Bromofluorobenzene	132	0	84-118	S	%REC	50	12/14/19 03:26 AM
Surr: Dibromofluoromethane	96.3	0	65-135		%REC	500	12/15/19 02:01 AM
Surr: Dibromofluoromethane	92.1	0	65-135		%REC	50	12/14/19 03:26 AM
Surr: Toluene-d8	156	0	84-116	S	%REC	50	12/14/19 03:26 AM
Surr: Toluene-d8	107	0	84-116		%REC	500	12/15/19 02:01 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	21.7	2.18	5.46		mg/Kg-dry	1	12/18/19 12:12 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	11.3	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: AH-4@5'
Lab ID: 1912127-22
Collection Date: 12/11/19 12:00 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	15.1	3.14	10.5		mg/Kg-dry	1	12/19/19 01:50 PM
TPH-ORO >C28-C35	<3.14	3.14	10.5		mg/Kg-dry	1	12/19/19 01:50 PM
Surr: Isopropylbenzene	106	0	47-142		%REC	1	12/19/19 01:50 PM
Surr: Octacosane	78.8	0	25-162		%REC	1	12/19/19 01:50 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	4.12	2.10	4.20	J	mg/Kg-dry	20	12/17/19 02:12 PM
Surr: Tetrachlorethene	115	0	70-134		%REC	20	12/17/19 02:12 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0525	0.0525	0.262		mg/Kg-dry	50	12/16/19 11:59 AM
Ethylbenzene	<0.0525	0.0525	0.262		mg/Kg-dry	50	12/16/19 11:59 AM
Toluene	<0.0525	0.0525	0.262		mg/Kg-dry	50	12/16/19 11:59 AM
Xylenes, Total	<0.0525	0.0525	0.262		mg/Kg-dry	50	12/16/19 11:59 AM
Surr: 1,2-Dichloroethane-d4	87.1	0	52-149		%REC	50	12/16/19 11:59 AM
Surr: 4-Bromofluorobenzene	92.2	0	84-118		%REC	50	12/16/19 11:59 AM
Surr: Dibromofluoromethane	95.1	0	65-135		%REC	50	12/16/19 11:59 AM
Surr: Toluene-d8	96.6	0	84-116		%REC	50	12/16/19 11:59 AM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	3.31	1.96	4.91	J	mg/Kg-dry	1	12/18/19 05:00 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	5.64	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: AH-5@0-1'
Lab ID: 1912127-23
Collection Date: 12/11/19 12:10 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	15400	288	959		mg/Kg-dry	100	12/19/19 03:53 PM
TPH-ORO >C28-C35	2160	288	959		mg/Kg-dry	100	12/19/19 03:53 PM
Surr: Isopropylbenzene	93.0	0	47-142		%REC	100	12/19/19 03:53 PM
Surr: Octacosane	3670	0	25-162	S	%REC	100	12/19/19 03:53 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	58.9	1.95	3.91		mg/Kg-dry	20	12/17/19 02:36 PM
Surr: Tetrachlorethene	90.9	0	70-134		%REC	20	12/17/19 02:36 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0488	0.0488	0.244		mg/Kg-dry	50	12/16/19 01:23 PM
Ethylbenzene	<0.0488	0.0488	0.244		mg/Kg-dry	50	12/16/19 01:23 PM
Toluene	0.0635	0.0488	0.244	J	mg/Kg-dry	50	12/16/19 01:23 PM
Xylenes, Total	0.0757	0.0488	0.244	J	mg/Kg-dry	50	12/16/19 01:23 PM
Surr: 1,2-Dichloroethane-d4	86.7	0	52-149		%REC	50	12/16/19 01:23 PM
Surr: 4-Bromofluorobenzene	103	0	84-118		%REC	50	12/16/19 01:23 PM
Surr: Dibromofluoromethane	97.0	0	65-135		%REC	50	12/16/19 01:23 PM
Surr: Toluene-d8	93.7	0	84-116		%REC	50	12/16/19 01:23 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	34.7	1.93	4.82		mg/Kg-dry	1	12/18/19 05:16 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	3.41	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

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See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	AH-5@5'
Project:	Millman Station	**Lab ID:**	1912127-24
Project No:		**Collection Date:**	12/11/19 12:18 PM
Lab Order:	1912127	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	13100	343	1140		mg/Kg-dry	100	12/19/19 04:02 PM
TPH-ORO >C28-C35	1580	343	1140		mg/Kg-dry	100	12/19/19 04:02 PM
Surr: Isopropylbenzene	280	0	47-142	S	%REC	100	12/19/19 04:02 PM
Surr: Octacosane	1020	0	25-162	S	%REC	100	12/19/19 04:02 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	1850	20.1	40.1		mg/Kg-dry	200	12/18/19 12:56 AM
Surr: Tetrachlorethene	70.1	0	70-134		%REC	200	12/18/19 12:56 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	13.5	0.0501	0.251		mg/Kg-dry	50	12/16/19 07:31 PM
Ethylbenzene	12.5	0.0501	0.251		mg/Kg-dry	50	12/16/19 07:31 PM
Toluene	0.515	0.0501	0.251		mg/Kg-dry	50	12/16/19 07:31 PM
Xylenes, Total	13.6	0.0501	0.251		mg/Kg-dry	50	12/16/19 07:31 PM
Surr: 1,2-Dichloroethane-d4	84.1	0	52-149		%REC	50	12/16/19 07:31 PM
Surr: 4-Bromofluorobenzene	117	0	84-118		%REC	50	12/16/19 07:31 PM
Surr: Dibromofluoromethane	91.8	0	65-135		%REC	50	12/16/19 07:31 PM
Surr: Toluene-d8	128	0	84-116	S	%REC	50	12/16/19 07:31 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	8.66	2.13	5.33		mg/Kg-dry	1	12/18/19 05:32 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	14.0	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

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B - Analyte detected in the associated Method Blank
DF- Dilution Factor
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S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Project: Millman Station
Project No:
Lab Order: 1912127

Client Sample ID: Stockpile
Lab ID: 1912127-25
Collection Date: 12/11/19 12:30 PM
Matrix: SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	1420	30.8	103		mg/Kg-dry	10	12/19/19 05:40 PM
TPH-ORO >C28-C35	174	30.8	103		mg/Kg-dry	10	12/19/19 05:40 PM
Surr: Isopropylbenzene	91.4	0	47-142		%REC	10	12/19/19 05:40 PM
Surr: Octacosane	498	0	25-162	S	%REC	10	12/19/19 05:40 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	23.6	2.16	4.32		mg/Kg-dry	20	12/18/19 12:08 AM
Surr: Tetrachlorethene	101	0	70-134		%REC	20	12/18/19 12:08 AM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0540	0.0540	0.270		mg/Kg-dry	50	12/16/19 02:20 PM
Ethylbenzene	<0.0540	0.0540	0.270		mg/Kg-dry	50	12/16/19 02:20 PM
Toluene	<0.0540	0.0540	0.270		mg/Kg-dry	50	12/16/19 02:20 PM
Xylenes, Total	<0.0540	0.0540	0.270		mg/Kg-dry	50	12/16/19 02:20 PM
Surr: 1,2-Dichloroethane-d4	88.7	0	52-149		%REC	50	12/16/19 02:20 PM
Surr: 4-Bromofluorobenzene	88.8	0	84-118		%REC	50	12/16/19 02:20 PM
Surr: Dibromofluoromethane	94.8	0	65-135		%REC	50	12/16/19 02:20 PM
Surr: Toluene-d8	92.6	0	84-116		%REC	50	12/16/19 02:20 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	38.8	2.12	5.30		mg/Kg-dry	1	12/18/19 05:48 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	9.39	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_191127A

Sample ID: **DCS-93833** Batch ID: **93833** TestNo: **M8015D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GC15_191127A** Analysis Date: **11/27/2019 10:46:10 A** Prep Date: **11/22/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	9.76	10.0	15.00	0	65.1	20	400	0	0	
Surr: Isopropylbenzene	6.02		7.500		80.2	47	142	0	0	
Surr: Octacosane	6.58		7.500		87.7	25	162	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_191218A

The QC data in batch 94145 applies to the following samples: 1912127-02C, 1912127-03C, 1912127-04C, 1912127-05C, 1912127-06C, 1912127-07C, 1912127-08C, 1912127-09C, 1912127-10C, 1912127-11C, 1912127-12C, 1912127-13C, 1912127-14C, 1912127-15C, 1912127-16C, 1912127-17C, 1912127-18C, 1912127-19C, 1912127-20C, 1912127-21C

Sample ID: **MB-94145** Batch ID: **94145** TestNo: **M8015D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC15_191218A** Analysis Date: **12/18/2019 7:46:11 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<3.00	10.0								
TPH-ORO >C28-C35	<3.00	10.0								
Surr: Isopropylbenzene	6.77		7.500		90.3	47	142			
Surr: Octacosane	6.22		7.500		82.9	25	162			

Sample ID: **LCS-94145** Batch ID: **94145** TestNo: **M8015D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC15_191218A** Analysis Date: **12/18/2019 7:55:15 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	105	10.0	125.0	0	83.7	50	114			
Surr: Isopropylbenzene	7.09		7.500		94.5	47	142			
Surr: Octacosane	6.17		7.500		82.3	25	162			

Sample ID: **1912127-03CMS** Batch ID: **94145** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC15_191218A** Analysis Date: **12/18/2019 8:22:25 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	101	10.2	127.8	0	78.7	50	114			
Surr: Isopropylbenzene	6.97		7.669		90.8	47	142			
Surr: Octacosane	6.09		7.669		79.4	25	162			

Sample ID: **1912127-03CMSD** Batch ID: **94145** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC15_191218A** Analysis Date: **12/18/2019 8:31:28 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	106	10.2	127.6	0	83.0	50	114	5.12	30	
Surr: Isopropylbenzene	7.00		7.654		91.5	47	142	0	0	
Surr: Octacosane	6.22		7.654		81.3	25	162	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_191218A

Sample ID: **ICV-191218**	Batch ID: **R107976**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC15_191218A**	Analysis Date: **12/18/2019 7:26:27 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	489	10.0	500.0	0	97.8	80	120			
Surr: Isopropylbenzene	28.9		25.00		116	80	120			
Surr: Octacosane	23.5		25.00		93.9	80	120			

Sample ID: **CCV1-191218**	Batch ID: **R107976**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_191218A**	Analysis Date: **12/18/2019 2:11:59 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	247	10.0	250.0	0	99.0	80	120			
Surr: Isopropylbenzene	13.3		12.50		106	80	120			
Surr: Octacosane	11.4		12.50		91.5	80	120			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_191219A

The QC data in batch 94166 applies to the following samples: 1912127-22C, 1912127-23C, 1912127-24C, 1912127-25C

Sample ID: **MB-94166**	Batch ID: **94166**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC15_191219A**	Analysis Date: **12/19/2019 1:32:29 PM**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<3.00	10.0								
TPH-ORO >C28-C35	<3.00	10.0								
Surr: Isopropylbenzene	7.42		7.500		98.9	47	142			
Surr: Octacosane	5.02		7.500		66.9	25	162			

Sample ID: **LCS-94166**	Batch ID: **94166**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC15_191219A**	Analysis Date: **12/19/2019 1:41:33 PM**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	116	10.0	125.0	0	92.5	50	114			
Surr: Isopropylbenzene	8.00		7.500		107	47	142			
Surr: Octacosane	5.36		7.500		71.5	25	162			

Sample ID: **1912127-22CMS**	Batch ID: **94166**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GC15_191219A**	Analysis Date: **12/19/2019 1:59:40 PM**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	133	9.95	124.4	15.10	95.0	50	114			
Surr: Isopropylbenzene	8.47		7.463		113	47	142			
Surr: Octacosane	5.75		7.463		77.1	25	162			

Sample ID: **1912127-22CMSD**	Batch ID: **94166**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GC15_191219A**	Analysis Date: **12/19/2019 2:08:43 PM**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	128	9.96	124.5	15.10	90.3	50	114	4.44	30	
Surr: Isopropylbenzene	7.74		7.470		104	47	142	0	0	
Surr: Octacosane	5.98		7.470		80.1	25	162	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_191219A

Sample ID: **ICV-191219**	Batch ID: **R108017**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC15_191219A**	Analysis Date: **12/19/2019 1:21:59 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	542	10.0	500.0	0	108	80	120			
Surr: Isopropylbenzene	28.6		25.00		114	80	120			
Surr: Octacosane	20.0		25.00		80.1	80	120			

Sample ID: **CCV1-191219**	Batch ID: **R108017**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_191219A**	Analysis Date: **12/19/2019 3:44:05 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	251	10.0	250.0	0	100	80	120			
Surr: Isopropylbenzene	14.9		12.50		119	80	120			
Surr: Octacosane	10.2		12.50		81.7	80	120			

Sample ID: **CCV2-191219**	Batch ID: **R108017**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_191219A**	Analysis Date: **12/19/2019 6:07:25 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	233	10.0	250.0	0	93.3	80	120			
Surr: Isopropylbenzene	14.9		12.50		119	80	120			
Surr: Octacosane	10.9		12.50		86.9	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191017A

Sample ID: **DCS-93268**	Batch ID: **93268**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **DCS**	Run ID: **GC4_191017A**	Analysis Date: **10/17/2019 7:45:54 PM**	Prep Date: **10/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	0.173	0.200	0.2000	0	86.7	31	161	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191216A

The QC data in batch 94124 applies to the following samples: 1912127-02B, 1912127-03B, 1912127-04B, 1912127-05B, 1912127-06B, 1912127-07B, 1912127-08B, 1912127-10B, 1912127-11B, 1912127-13B

Sample ID: **LCS-94124 MEOH**	Batch ID: **94124**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 11:16:31 A**	Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.74	0.200	2.500	0	109	68	126			
Surr: Tetrachlorethene	0.376		0.4000		94.1	70	134			

Sample ID: **MB-94124 MEOH**	Batch ID: **94124**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 12:28:10 P**	Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.100	0.200								
Surr: Tetrachlorethene	0.436		0.4000		109	70	134			

Sample ID: **1912126-13BMS**	Batch ID: **94124**	TestNo: **M8015V**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 10:49:43 P**	Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	51.9	4.11	51.41	0	101	68	126			
Surr: Tetrachlorethene	9.36		8.226		114	70	134			

Sample ID: **1912126-13BMSD**	Batch ID: **94124**	TestNo: **M8015V**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 11:13:43 P**	Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	57.9	4.11	51.41	0	113	68	126	11.0	30	
Surr: Tetrachlorethene	9.38		8.226		114	70	134	0	0	

Qualifiers:			
B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191216A

Sample ID: **ICV-191216**	Batch ID: **R107950**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 10:52:47 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4.76	0.200	5.000	0	95.2	80	120			
Surr: Tetrachlorethene	0.356		0.4000		88.9	70	134			

Sample ID: **CCV1-191216**	Batch ID: **R107950**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 5:39:07 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.50	0.200	2.500	0	100	80	120			
Surr: Tetrachlorethene	0.444		0.4000		111	70	134			

Sample ID: **CCV2-191216**	Batch ID: **R107950**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191216A**	Analysis Date: **12/16/2019 11:37:32 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.73	0.200	2.500	0	109	80	120			
Surr: Tetrachlorethene	0.454		0.4000		114	70	134			

Sample ID: **CCV3-191216**	Batch ID: **R107950**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191216A**	Analysis Date: **12/17/2019 1:36:56 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.53	0.200	2.500	0	101	80	120			
Surr: Tetrachlorethene	0.393		0.4000		98.3	70	134			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191217A

The QC data in batch 94142 applies to the following samples: 1912127-12B, 1912127-14B, 1912127-16B, 1912127-18B, 1912127-20B, 1912127-22B, 1912127-23B, 1912127-24B, 1912127-25B

Sample ID: **LCS-94142 MEOH** Batch ID: **94142** TestNo: **M8015V** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC4_191217A** Analysis Date: **12/17/2019 10:37:09 A** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	3.01	0.200	2.500	0	120	68	126			
Surr: Tetrachlorethene	0.447		0.4000		112	70	134			

Sample ID: **MB-94142 MEOH** Batch ID: **94142** TestNo: **M8015V** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC4_191217A** Analysis Date: **12/17/2019 11:48:44 A** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.100	0.200								
Surr: Tetrachlorethene	0.445		0.4000		111	70	134			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191217A

Sample ID: **ICV-191217**	Batch ID: **R107965**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC4_191217A**	Analysis Date: **12/17/2019 10:13:18 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	5.43	0.200	5.000	0	109	80	120			
Surr: Tetrachlorethene	0.407		0.4000		102	70	134			

Sample ID: **CCV1-191217**	Batch ID: **R107965**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191217A**	Analysis Date: **12/17/2019 5:23:14 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.75	0.200	2.500	0	110	80	120			
Surr: Tetrachlorethene	0.426		0.4000		107	70	134			

Sample ID: **CCV2-191217**	Batch ID: **R107965**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191217A**	Analysis Date: **12/17/2019 10:33:22 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.55	0.200	2.500	0	102	80	120			
Surr: Tetrachlorethene	0.443		0.4000		111	70	134			

Sample ID: **CCV3-191217**	Batch ID: **R107965**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191217A**	Analysis Date: **12/18/2019 2:08:16 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.53	0.200	2.500	0	101	80	120			
Surr: Tetrachlorethene	0.443		0.4000		111	70	134			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191218A

The QC data in batch 94159 applies to the following samples: 1912127-09B, 1912127-15B, 1912127-17B, 1912127-19B, 1912127-21B

Sample ID: **LCS-94159 MEOH**	Batch ID: **94159**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 8:43:12 AM**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.90	0.200	2.500	0	116	68	126			
Surr: Tetrachlorethene	0.474		0.4000		118	70	134			

Sample ID: **MB-94159 MEOH**	Batch ID: **94159**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 9:55:11 AM**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.100	0.200								
Surr: Tetrachlorethene	0.526		0.4000		132	70	134			

Sample ID: **1912127-09BMS**	Batch ID: **94159**	TestNo: **M8015V**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 10:16:30 P**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	3860	198	2481	1422	98.2	68	126			
Surr: Tetrachlorethene	376		397.0		94.6	70	134			

Sample ID: **1912127-09BMSD**	Batch ID: **94159**	TestNo: **M8015V**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 10:40:15 P**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4550	198	2481	1422	126	68	126	16.5	30	
Surr: Tetrachlorethene	427		397.0		108	70	134	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191218A

Sample ID: **ICV-191218**	Batch ID: **R107996**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 8:19:18 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	5.36	0.200	5.000	0	107	80	120			
Surr: Tetrachlorethene	0.461		0.4000		115	70	134			

Sample ID: **CCV1-191218**	Batch ID: **R107996**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 3:53:48 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.59	0.200	2.500	0	104	80	120			
Surr: Tetrachlorethene	0.486		0.4000		121	70	134			

Sample ID: **CCV2-191218**	Batch ID: **R107996**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 11:04:15 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.75	0.200	2.500	0	110	80	120			
Surr: Tetrachlorethene	0.496		0.4000		124	70	134			

Sample ID: **CCV3-191218**	Batch ID: **R107996**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191218A**	Analysis Date: **12/19/2019 1:04:03 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.69	0.200	2.500	0	108	80	120			
Surr: Tetrachlorethene	0.431		0.4000		108	70	134			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191118A

Sample ID: **DCS-93748** Batch ID: **93748** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GCMS2_191118A** Analysis Date: **11/18/2019 1:08:00 PM** Prep Date: **11/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00284	0.00500	0.00232	0	122	10	400	0	0	
Ethylbenzene	0.00243	0.00500	0.00232	0	105	10	400	0	0	
Toluene	0.00273	0.00500	0.00232	0	118	10	400	0	0	
Total Xylenes	0.00686	0.00500	0.00696	0	98.6	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191213A

The QC data in batch 94111 applies to the following samples: 1912127-02A, 1912127-03A, 1912127-04A, 1912127-05A, 1912127-06A, 1912127-07A, 1912127-08A, 1912127-09A, 1912127-10A, 1912127-11A, 1912127-12A, 1912127-13A, 1912127-14A, 1912127-15A, 1912127-16A, 1912127-17A, 1912127-18A, 1912127-19A, 1912127-20A, 1912127-21A

Sample ID: **LCS-94111 MEOH** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 4:35:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.21	0.250	1.16	0	104	73	126			
Ethylbenzene	1.27	0.250	1.16	0	110	74	127			
Toluene	1.24	0.250	1.16	0	107	71	127			
Xylenes, Total	3.68	0.250	3.48	0	106	75	125			
Surr: 1,2-Dichloroethane-d4	2140		2500		85.4	52	149			
Surr: 4-Bromofluorobenzene	2340		2500		93.6	84	118			
Surr: Dibromofluoromethane	2440		2500		97.5	65	135			
Surr: Toluene-d8	2520		2500		101	84	116			

Sample ID: **MB-94111 MEOH** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 5:04:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.0500	0.250								
Ethylbenzene	<0.0500	0.250								
Toluene	<0.0500	0.250								
Xylenes, Total	<0.0500	0.250								
Surr: 1,2-Dichloroethane-d4	2250		2500		89.9	52	149			
Surr: 4-Bromofluorobenzene	2280		2500		91.1	84	118			
Surr: Dibromofluoromethane	2410		2500		96.6	65	135			
Surr: Toluene-d8	2470		2500		98.7	84	116			

Sample ID: **1912127-02AMS** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 6:00:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.20	0.249	1.15	0	104	73	126			
Ethylbenzene	1.20	0.249	1.15	0	104	74	127			
Toluene	1.21	0.249	1.15	0	105	71	127			
Xylenes, Total	3.50	0.249	3.46	0	101	75	125			
Surr: 1,2-Dichloroethane-d4	2280		2487		91.7	52	149			
Surr: 4-Bromofluorobenzene	2220		2487		89.4	84	118			
Surr: Dibromofluoromethane	2450		2487		98.6	65	135			
Surr: Toluene-d8	2410		2487		96.8	84	116			

Sample ID: **1912127-02AMSD** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 6:28:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191213A

Sample ID: **1912127-02AMSD** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 6:28:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.18	0.249	1.15	0	102	73	126	2.26	30	
Ethylbenzene	1.21	0.249	1.15	0	104	74	127	0.704	30	
Toluene	1.20	0.249	1.15	0	104	71	127	1.44	30	
Xylenes, Total	3.54	0.249	3.46	0	102	75	125	0.961	30	
Surr: 1,2-Dichloroethane-d4	2150		2487		86.3	52	149	0	0	
Surr: 4-Bromofluorobenzene	2280		2487		91.5	84	118	0	0	
Surr: Dibromofluoromethane	2400		2487		96.3	65	135	0	0	
Surr: Toluene-d8	2400		2487		96.5	84	116	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191213A

Sample ID: **ICV-191213** Batch ID: **R107911** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 4:07:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0492	0.00500	0.0464	0	106	80	120			
Ethylbenzene	0.0493	0.00500	0.0464	0	106	80	120			
Toluene	0.0508	0.00500	0.0464	0	110	80	120			
Xylenes, Total	0.145	0.00500	0.139	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	47.2		50.00		94.4	52	149			
Surr: 4-Bromofluorobenzene	47.7		50.00		95.5	84	118			
Surr: Dibromofluoromethane	51.7		50.00		103	65	135			
Surr: Toluene-d8	47.7		50.00		95.3	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191214B

The QC data in batch 94111 applies to the following samples: 1912127-02A, 1912127-03A, 1912127-04A, 1912127-05A, 1912127-06A, 1912127-07A, 1912127-08A, 1912127-09A, 1912127-10A, 1912127-11A, 1912127-12A, 1912127-13A, 1912127-14A, 1912127-15A, 1912127-16A, 1912127-17A, 1912127-18A, 1912127-19A, 1912127-20A, 1912127-21A

Sample ID: **SB-191214** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **SBLK** Run ID: **GCMS2_191214B** Analysis Date: **12/14/2019 3:33:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.0500	0.250	0							
Ethylbenzene	<0.0500	0.250	0							
Toluene	<0.0500	0.250	0							
Xylenes, Total	<0.0500	0.250	0							
Surr: 1,2-Dichloroethane-d4	2280		0							
Surr: 4-Bromofluorobenzene	2230		0							
Surr: Dibromofluoromethane	2440		0							
Surr: Toluene-d8	2290		0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191214B

Sample ID: **ICV-191214** Batch ID: **R107914** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191214B** Analysis Date: **12/14/2019 2:36:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0493	0.00500	0.0464	0	106	80	120			
Ethylbenzene	0.0516	0.00500	0.0464	0	111	80	120			
Toluene	0.0515	0.00500	0.0464	0	111	80	120			
Xylenes, Total	0.151	0.00500	0.139	0	109	80	120			
Surr: 1,2-Dichloroethane-d4	42.4		50.00		84.9	52	149			
Surr: 4-Bromofluorobenzene	46.6		50.00		93.2	84	118			
Surr: Dibromofluoromethane	48.3		50.00		96.7	65	135			
Surr: Toluene-d8	47.8		50.00		95.5	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191216A

The QC data in batch 94128 applies to the following samples: 1912127-22A, 1912127-23A, 1912127-24A, 1912127-25A

Sample ID: **LCS-94128 MEOH** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 11:02:00 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.29	0.250	1.16	0	111	73	126			
Ethylbenzene	1.32	0.250	1.16	0	114	74	127			
Toluene	1.33	0.250	1.16	0	114	71	127			
Xylenes, Total	3.97	0.250	3.48	0	114	75	125			
Surr: 1,2-Dichloroethane-d4	2210		2500		88.5	52	149			
Surr: 4-Bromofluorobenzene	2280		2500		91.2	84	118			
Surr: Dibromofluoromethane	2510		2500		100	65	135			
Surr: Toluene-d8	2460		2500		98.6	84	116			

Sample ID: **MB-94128 MEOH** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 11:30:00 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.0500	0.250								
Ethylbenzene	<0.0500	0.250								
Toluene	<0.0500	0.250								
Xylenes, Total	<0.0500	0.250								
Surr: 1,2-Dichloroethane-d4	2190		2500		87.7	52	149			
Surr: 4-Bromofluorobenzene	2340		2500		93.6	84	118			
Surr: Dibromofluoromethane	2520		2500		101	65	135			
Surr: Toluene-d8	2350		2500		94.0	84	116			

Sample ID: **1912127-22AMS** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 12:27:00 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.31	0.262	1.22	0	108	73	126			
Ethylbenzene	1.27	0.262	1.22	0	104	74	127			
Toluene	1.36	0.262	1.22	0	111	71	127			
Xylenes, Total	3.80	0.262	3.65	0	104	75	125			
Surr: 1,2-Dichloroethane-d4	2270		2623		86.4	52	149			
Surr: 4-Bromofluorobenzene	2260		2623		86.1	84	118			
Surr: Dibromofluoromethane	2550		2623		97.1	65	135			
Surr: Toluene-d8	2530		2623		96.3	84	116			

Sample ID: **1912127-22AMSD** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 12:55:00 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.30	0.262	1.22	0	107	73	126	0.643	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191216A

Sample ID: **1912127-22AMSD** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 12:55:00 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	1.29	0.262	1.22	0	106	74	127	1.77	30	
Toluene	1.35	0.262	1.22	0	111	71	127	0.466	30	
Xylenes, Total	3.79	0.262	3.65	0	104	75	125	0.096	30	
Surr: 1,2-Dichloroethane-d4	2380		2623		90.8	52	149	0	0	
Surr: 4-Bromofluorobenzene	2300		2623		87.6	84	118	0	0	
Surr: Dibromofluoromethane	2630		2623		100	65	135	0	0	
Surr: Toluene-d8	2470		2623		94.1	84	116	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191216A

Sample ID: **ICV-191216** Batch ID: **R107948** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 10:34:00 A** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0489	0.00500	0.0464	0	105	80	120			
Ethylbenzene	0.0489	0.00500	0.0464	0	105	80	120			
Toluene	0.0509	0.00500	0.0464	0	110	80	120			
Xylenes, Total	0.148	0.00500	0.139	0	106	80	120			
Surr: 1,2-Dichloroethane-d4	44.9		50.00		89.8	52	149			
Surr: 4-Bromofluorobenzene	47.6		50.00		95.2	84	118			
Surr: Dibromofluoromethane	50.6		50.00		101	65	135			
Surr: Toluene-d8	46.1		50.00		92.2	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191217B

The QC data in batch 94128 applies to the following samples: 1912127-22A, 1912127-23A, 1912127-24A, 1912127-25A

Sample ID: **SB-191217** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **SBLK** Run ID: **GCMS2_191217B** Analysis Date: **12/17/2019 10:48:00 A** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	<0.00100	0.00500	0							
Surr: 1,2-Dichloroethane-d4	44.1		0							
Surr: 4-Bromofluorobenzene	44.0		0							
Surr: Dibromofluoromethane	52.2		0							
Surr: Toluene-d8	46.6		0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191217B

Sample ID: **ICV-191217** Batch ID: **R107963** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191217B** Analysis Date: **12/17/2019 9:51:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	0.0507	0.00500	0.0464	0	109	80	120			
Surr: 1,2-Dichloroethane-d4	43.5		50.00		87.1	52	149			
Surr: 4-Bromofluorobenzene	46.4		50.00		92.8	84	118			
Surr: Dibromofluoromethane	50.4		50.00		101	65	135			
Surr: Toluene-d8	48.1		50.00		96.2	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191121A

Sample ID: **DCS-93791**	Batch ID: **93791**	TestNo: **SW8260D**	Units: **mg/L**
SampType: **DCS**	Run ID: **GCMS3_191121A**	Analysis Date: **11/21/2019 9:51:00 AM**	Prep Date: **11/21/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.000529	0.00200	0.000464	0	114	10	400	0	0	
Ethylbenzene	0.000528	0.00600	0.000464	0	114	10	400	0	0	
Toluene	0.000546	0.00600	0.000464	0	118	10	400	0	0	
Total Xylenes	0.00161	0.00600	0.00139	0	116	10	400	0	0	
Surr: 1,2-Dichloroethane-d4	44.7		50.00		89.5	72	119	0	0	
Surr: 4-Bromofluorobenzene	48.3		50.00		96.5	76	119	0	0	
Surr: Dibromofluoromethane	50.9		50.00		102	85	115	0	0	
Surr: Toluene-d8	48.9		50.00		97.8	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

The QC data in batch 94118 applies to the following samples: 1912127-01A

Sample ID: **LCS-94118** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:33:00 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0456	0.00200	0.0464	0	98.4	81	122			
Ethylbenzene	0.0454	0.00600	0.0464	0	97.9	73	127			
Toluene	0.0461	0.00600	0.0464	0	99.4	77	122			
Total Xylenes	0.135	0.00600	0.139	0	96.8	80	121			
Surr: 1,2-Dichloroethane-d4	49.8		50.00		99.5	72	119			
Surr: 4-Bromofluorobenzene	48.3		50.00		96.6	76	119			
Surr: Dibromofluoromethane	50.6		50.00		101	85	115			
Surr: Toluene-d8	49.8		50.00		99.7	81	120			

Sample ID: **MB-94118** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:59:00 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000800	0.00200								
Ethylbenzene	<0.00200	0.00600								
Toluene	<0.00200	0.00600								
Total Xylenes	<0.00200	0.00600								
Surr: 1,2-Dichloroethane-d4	49.4		50.00		98.8	72	119			
Surr: 4-Bromofluorobenzene	49.3		50.00		98.6	76	119			
Surr: Dibromofluoromethane	50.4		50.00		101	85	115			
Surr: Toluene-d8	50.0		50.00		100	81	120			

Sample ID: **1912145-12AMS** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:32:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.70	0.100	2.32	0.562	92.0	81	122			
Ethylbenzene	2.14	0.300	2.32	0	92.0	73	127			
Toluene	2.14	0.300	2.32	0	92.3	77	122			
Total Xylenes	6.20	0.300	6.95	0	89.2	80	121			
Surr: 1,2-Dichloroethane-d4	2460		2500		98.2	72	119			
Surr: 4-Bromofluorobenzene	2390		2500		95.7	76	119			
Surr: Dibromofluoromethane	2520		2500		101	85	115			
Surr: Toluene-d8	2480		2500		99.1	81	120			

Sample ID: **1912145-12AMSD** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:57:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.70	0.100	2.32	0.562	92.3	81	122	0.216	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

Sample ID: **1912145-12AMSD** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:57:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	2.14	0.300	2.32	0	92.4	73	127	0.425	20	
Toluene	2.16	0.300	2.32	0	93.2	77	122	0.964	20	
Total Xylenes	6.42	0.300	6.95	0	92.4	80	121	3.59	20	
Surr: 1,2-Dichloroethane-d4	2480		2500		99.4	72	119	0	0	
Surr: 4-Bromofluorobenzene	2420		2500		97.0	76	119	0	0	
Surr: Dibromofluoromethane	2520		2500		101	85	115	0	0	
Surr: Toluene-d8	2490		2500		99.4	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

Sample ID: **ICV-191217** Batch ID: **R107983** TestNo: **SW8260D** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:07:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0898	0.00200	0.0928	0	96.8	80	120			
Ethylbenzene	0.0900	0.00600	0.0928	0	97.0	80	120			
Toluene	0.0905	0.00600	0.0928	0	97.5	80	120			
Total Xylenes	0.261	0.00600	0.278	0	93.9	80	120			
Surr: 1,2-Dichloroethane-d4	49.3		50.00		98.6	72	119			
Surr: 4-Bromofluorobenzene	48.3		50.00		96.6	76	119			
Surr: Dibromofluoromethane	50.3		50.00		101	85	115			
Surr: Toluene-d8	49.9		50.00		99.8	81	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191118A

Sample ID: **DCS-93748** Batch ID: **93748** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GCMS2_191118A** Analysis Date: **11/18/2019 1:08:00 PM** Prep Date: **11/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00284	0.00500	0.00232	0	122	10	400	0	0	
Ethylbenzene	0.00243	0.00500	0.00232	0	105	10	400	0	0	
Toluene	0.00273	0.00500	0.00232	0	118	10	400	0	0	
Total Xylenes	0.00686	0.00500	0.00696	0	98.6	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191213A

The QC data in batch 94111 applies to the following samples: 1912127-02A, 1912127-03A, 1912127-04A, 1912127-05A, 1912127-06A, 1912127-07A, 1912127-08A, 1912127-09A, 1912127-10A, 1912127-11A, 1912127-12A, 1912127-13A, 1912127-14A, 1912127-15A, 1912127-16A, 1912127-17A, 1912127-18A, 1912127-19A, 1912127-20A, 1912127-21A

Sample ID: **LCS-94111 MEOH** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 4:35:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.21	0.250	1.16	0	104	73	126			
Ethylbenzene	1.27	0.250	1.16	0	110	74	127			
Toluene	1.24	0.250	1.16	0	107	71	127			
Xylenes, Total	3.68	0.250	3.48	0	106	75	125			
Surr: 1,2-Dichloroethane-d4	2140		2500		85.4	52	149			
Surr: 4-Bromofluorobenzene	2340		2500		93.6	84	118			
Surr: Dibromofluoromethane	2440		2500		97.5	65	135			
Surr: Toluene-d8	2520		2500		101	84	116			

Sample ID: **MB-94111 MEOH** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 5:04:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.0500	0.250								
Ethylbenzene	<0.0500	0.250								
Toluene	<0.0500	0.250								
Xylenes, Total	<0.0500	0.250								
Surr: 1,2-Dichloroethane-d4	2250		2500		89.9	52	149			
Surr: 4-Bromofluorobenzene	2280		2500		91.1	84	118			
Surr: Dibromofluoromethane	2410		2500		96.6	65	135			
Surr: Toluene-d8	2470		2500		98.7	84	116			

Sample ID: **1912127-02AMS** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 6:00:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.20	0.249	1.15	0	104	73	126			
Ethylbenzene	1.20	0.249	1.15	0	104	74	127			
Toluene	1.21	0.249	1.15	0	105	71	127			
Xylenes, Total	3.50	0.249	3.46	0	101	75	125			
Surr: 1,2-Dichloroethane-d4	2280		2487		91.7	52	149			
Surr: 4-Bromofluorobenzene	2220		2487		89.4	84	118			
Surr: Dibromofluoromethane	2450		2487		98.6	65	135			
Surr: Toluene-d8	2410		2487		96.8	84	116			

Sample ID: **1912127-02AMSD** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 6:28:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit
J	Analyte detected between SDL and RL
DF	Dilution Factor
MDL	Method Detection Limit
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191213A

Sample ID: **1912127-02AMSD** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 6:28:00 PM** Prep Date: **12/13/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.18	0.249	1.15	0	102	73	126	2.26	30	
Ethylbenzene	1.21	0.249	1.15	0	104	74	127	0.704	30	
Toluene	1.20	0.249	1.15	0	104	71	127	1.44	30	
Xylenes, Total	3.54	0.249	3.46	0	102	75	125	0.961	30	
Surr: 1,2-Dichloroethane-d4	2150		2487		86.3	52	149	0	0	
Surr: 4-Bromofluorobenzene	2280		2487		91.5	84	118	0	0	
Surr: Dibromofluoromethane	2400		2487		96.3	65	135	0	0	
Surr: Toluene-d8	2400		2487		96.5	84	116	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191213A

Sample ID: **ICV-191213** Batch ID: **R107911** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191213A** Analysis Date: **12/13/2019 4:07:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0492	0.00500	0.0464	0	106	80	120			
Ethylbenzene	0.0493	0.00500	0.0464	0	106	80	120			
Toluene	0.0508	0.00500	0.0464	0	110	80	120			
Xylenes, Total	0.145	0.00500	0.139	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	47.2		50.00		94.4	52	149			
Surr: 4-Bromofluorobenzene	47.7		50.00		95.5	84	118			
Surr: Dibromofluoromethane	51.7		50.00		103	65	135			
Surr: Toluene-d8	47.7		50.00		95.3	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: **GCMS2_191214B**

The QC data in batch 94111 applies to the following samples: 1912127-02A, 1912127-03A, 1912127-04A, 1912127-05A, 1912127-06A, 1912127-07A, 1912127-08A, 1912127-09A, 1912127-10A, 1912127-11A, 1912127-12A, 1912127-13A, 1912127-14A, 1912127-15A, 1912127-16A, 1912127-17A, 1912127-18A, 1912127-19A, 1912127-20A, 1912127-21A

Sample ID: **SB-191214** Batch ID: **94111** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **SBLK** Run ID: **GCMS2_191214B** Analysis Date: **12/14/2019 3:33:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.0500	0.250	0							
Ethylbenzene	<0.0500	0.250	0							
Toluene	<0.0500	0.250	0							
Xylenes, Total	<0.0500	0.250	0							
Surr: 1,2-Dichloroethane-d4	2280		0							
Surr: 4-Bromofluorobenzene	2230		0							
Surr: Dibromofluoromethane	2440		0							
Surr: Toluene-d8	2290		0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191214B

Sample ID: **ICV-191214** Batch ID: **R107914** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191214B** Analysis Date: **12/14/2019 2:36:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0493	0.00500	0.0464	0	106	80	120			
Ethylbenzene	0.0516	0.00500	0.0464	0	111	80	120			
Toluene	0.0515	0.00500	0.0464	0	111	80	120			
Xylenes, Total	0.151	0.00500	0.139	0	109	80	120			
Surr: 1,2-Dichloroethane-d4	42.4		50.00		84.9	52	149			
Surr: 4-Bromofluorobenzene	46.6		50.00		93.2	84	118			
Surr: Dibromofluoromethane	48.3		50.00		96.7	65	135			
Surr: Toluene-d8	47.8		50.00		95.5	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191216A

The QC data in batch 94128 applies to the following samples: 1912127-22A, 1912127-23A, 1912127-24A, 1912127-25A

Sample ID: **LCS-94128 MEOH** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 11:02:00 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.29	0.250	1.16	0	111	73	126			
Ethylbenzene	1.32	0.250	1.16	0	114	74	127			
Toluene	1.33	0.250	1.16	0	114	71	127			
Xylenes, Total	3.97	0.250	3.48	0	114	75	125			
Surr: 1,2-Dichloroethane-d4	2210		2500		88.5	52	149			
Surr: 4-Bromofluorobenzene	2280		2500		91.2	84	118			
Surr: Dibromofluoromethane	2510		2500		100	65	135			
Surr: Toluene-d8	2460		2500		98.6	84	116			

Sample ID: **MB-94128 MEOH** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 11:30:00 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.0500	0.250								
Ethylbenzene	<0.0500	0.250								
Toluene	<0.0500	0.250								
Xylenes, Total	<0.0500	0.250								
Surr: 1,2-Dichloroethane-d4	2190		2500		87.7	52	149			
Surr: 4-Bromofluorobenzene	2340		2500		93.6	84	118			
Surr: Dibromofluoromethane	2520		2500		101	65	135			
Surr: Toluene-d8	2350		2500		94.0	84	116			

Sample ID: **1912127-22AMS** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 12:27:00 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.31	0.262	1.22	0	108	73	126			
Ethylbenzene	1.27	0.262	1.22	0	104	74	127			
Toluene	1.36	0.262	1.22	0	111	71	127			
Xylenes, Total	3.80	0.262	3.65	0	104	75	125			
Surr: 1,2-Dichloroethane-d4	2270		2623		86.4	52	149			
Surr: 4-Bromofluorobenzene	2260		2623		86.1	84	118			
Surr: Dibromofluoromethane	2550		2623		97.1	65	135			
Surr: Toluene-d8	2530		2623		96.3	84	116			

Sample ID: **1912127-22AMSD** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 12:55:00 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.30	0.262	1.22	0	107	73	126	0.643	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191216A

Sample ID: **1912127-22AMSD** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 12:55:00 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	1.29	0.262	1.22	0	106	74	127	1.77	30	
Toluene	1.35	0.262	1.22	0	111	71	127	0.466	30	
Xylenes, Total	3.79	0.262	3.65	0	104	75	125	0.096	30	
Surr: 1,2-Dichloroethane-d4	2380		2623		90.8	52	149	0	0	
Surr: 4-Bromofluorobenzene	2300		2623		87.6	84	118	0	0	
Surr: Dibromofluoromethane	2630		2623		100	65	135	0	0	
Surr: Toluene-d8	2470		2623		94.1	84	116	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191216A

Sample ID: **ICV-191216** Batch ID: **R107948** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 10:34:00 A** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0489	0.00500	0.0464	0	105	80	120			
Ethylbenzene	0.0489	0.00500	0.0464	0	105	80	120			
Toluene	0.0509	0.00500	0.0464	0	110	80	120			
Xylenes, Total	0.148	0.00500	0.139	0	106	80	120			
Surr: 1,2-Dichloroethane-d4	44.9		50.00		89.8	52	149			
Surr: 4-Bromofluorobenzene	47.6		50.00		95.2	84	118			
Surr: Dibromofluoromethane	50.6		50.00		101	65	135			
Surr: Toluene-d8	46.1		50.00		92.2	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191217B

The QC data in batch 94128 applies to the following samples: 1912127-22A, 1912127-23A, 1912127-24A, 1912127-25A

Sample ID: **SB-191217** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **SBLK** Run ID: **GCMS2_191217B** Analysis Date: **12/17/2019 10:48:00 A** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	<0.00100	0.00500	0							
Surr: 1,2-Dichloroethane-d4	44.1		0							
Surr: 4-Bromofluorobenzene	44.0		0							
Surr: Dibromofluoromethane	52.2		0							
Surr: Toluene-d8	46.6		0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191217B

Sample ID: **ICV-191217** Batch ID: **R107963** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191217B** Analysis Date: **12/17/2019 9:51:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	0.0507	0.00500	0.0464	0	109	80	120			
Surr: 1,2-Dichloroethane-d4	43.5		50.00		87.1	52	149			
Surr: 4-Bromofluorobenzene	46.4		50.00		92.8	84	118			
Surr: Dibromofluoromethane	50.4		50.00		101	65	135			
Surr: Toluene-d8	48.1		50.00		96.2	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191121A

Sample ID: **DCS-93791** Batch ID: **93791** TestNo: **SW8260D** Units: **mg/L**
SampType: **DCS** Run ID: **GCMS3_191121A** Analysis Date: **11/21/2019 9:51:00 AM** Prep Date: **11/21/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.000529	0.00200	0.000464	0	114	10	400	0	0	
Ethylbenzene	0.000528	0.00600	0.000464	0	114	10	400	0	0	
Toluene	0.000546	0.00600	0.000464	0	118	10	400	0	0	
Total Xylenes	0.00161	0.00600	0.00139	0	116	10	400	0	0	
Surr: 1,2-Dichloroethane-d4	44.7		50.00		89.5	72	119	0	0	
Surr: 4-Bromofluorobenzene	48.3		50.00		96.5	76	119	0	0	
Surr: Dibromofluoromethane	50.9		50.00		102	85	115	0	0	
Surr: Toluene-d8	48.9		50.00		97.8	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

The QC data in batch 94118 applies to the following samples: 1912127-01A

Sample ID: **LCS-94118** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:33:00 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0456	0.00200	0.0464	0	98.4	81	122			
Ethylbenzene	0.0454	0.00600	0.0464	0	97.9	73	127			
Toluene	0.0461	0.00600	0.0464	0	99.4	77	122			
Total Xylenes	0.135	0.00600	0.139	0	96.8	80	121			
Surr: 1,2-Dichloroethane-d4	49.8		50.00		99.5	72	119			
Surr: 4-Bromofluorobenzene	48.3		50.00		96.6	76	119			
Surr: Dibromofluoromethane	50.6		50.00		101	85	115			
Surr: Toluene-d8	49.8		50.00		99.7	81	120			

Sample ID: **MB-94118** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:59:00 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000800	0.00200								
Ethylbenzene	<0.00200	0.00600								
Toluene	<0.00200	0.00600								
Total Xylenes	<0.00200	0.00600								
Surr: 1,2-Dichloroethane-d4	49.4		50.00		98.8	72	119			
Surr: 4-Bromofluorobenzene	49.3		50.00		98.6	76	119			
Surr: Dibromofluoromethane	50.4		50.00		101	85	115			
Surr: Toluene-d8	50.0		50.00		100	81	120			

Sample ID: **1912145-12AMS** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:32:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.70	0.100	2.32	0.562	92.0	81	122			
Ethylbenzene	2.14	0.300	2.32	0	92.0	73	127			
Toluene	2.14	0.300	2.32	0	92.3	77	122			
Total Xylenes	6.20	0.300	6.95	0	89.2	80	121			
Surr: 1,2-Dichloroethane-d4	2460		2500		98.2	72	119			
Surr: 4-Bromofluorobenzene	2390		2500		95.7	76	119			
Surr: Dibromofluoromethane	2520		2500		101	85	115			
Surr: Toluene-d8	2480		2500		99.1	81	120			

Sample ID: **1912145-12AMSD** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:57:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.70	0.100	2.32	0.562	92.3	81	122	0.216	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

Sample ID: **1912145-12AMSD** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:57:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	2.14	0.300	2.32	0	92.4	73	127	0.425	20	
Toluene	2.16	0.300	2.32	0	93.2	77	122	0.964	20	
Total Xylenes	6.42	0.300	6.95	0	92.4	80	121	3.59	20	
Surr: 1,2-Dichloroethane-d4	2480		2500		99.4	72	119	0	0	
Surr: 4-Bromofluorobenzene	2420		2500		97.0	76	119	0	0	
Surr: Dibromofluoromethane	2520		2500		101	85	115	0	0	
Surr: Toluene-d8	2490		2500		99.4	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

Sample ID: **ICV-191217** Batch ID: **R107983** TestNo: **SW8260D** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:07:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0898	0.00200	0.0928	0	96.8	80	120			
Ethylbenzene	0.0900	0.00600	0.0928	0	97.0	80	120			
Toluene	0.0905	0.00600	0.0928	0	97.5	80	120			
Total Xylenes	0.261	0.00600	0.278	0	93.9	80	120			
Surr: 1,2-Dichloroethane-d4	49.3		50.00		98.6	72	119			
Surr: 4-Bromofluorobenzene	48.3		50.00		96.6	76	119			
Surr: Dibromofluoromethane	50.3		50.00		101	85	115			
Surr: Toluene-d8	49.9		50.00		99.8	81	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191002A

Sample ID: **DCS-93058**	Batch ID: **93058**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **DCS**	Run ID: **IC4_191002A**	Analysis Date: **10/2/2019 12:37:56 PM**	Prep Date: **10/2/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2.66	5.00	2.500	0	106	65	135	0	0	

Sample ID: **DCS2-93058**	Batch ID: **93058**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **DCS2**	Run ID: **IC4_191002A**	Analysis Date: **10/2/2019 12:53:56 PM**	Prep Date: **10/2/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.98	5.00	5.000	0	99.6	65	135	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191217A

The QC data in batch 94148 applies to the following samples: 1912127-02C, 1912127-03C, 1912127-04C, 1912127-05C, 1912127-06C, 1912127-07C, 1912127-08C, 1912127-09C, 1912127-10C, 1912127-11C, 1912127-12C, 1912127-13C, 1912127-14C, 1912127-15C, 1912127-16C, 1912127-17C, 1912127-18C, 1912127-19C, 1912127-20C, 1912127-21C

Sample ID: **MB-94148** Batch ID: **94148** TestNo: **SW9056A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **IC4_191217A** Analysis Date: **12/17/2019 9:59:26 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<2.00	5.00								

Sample ID: **LCS-94148** Batch ID: **94148** TestNo: **SW9056A** Units: **mg/Kg**
SampType: **LCS** Run ID: **IC4_191217A** Analysis Date: **12/17/2019 10:15:26 A** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	48.6	5.00	50.00	0	97.2	80	120			

Sample ID: **LCSD-94148** Batch ID: **94148** TestNo: **SW9056A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **IC4_191217A** Analysis Date: **12/17/2019 10:31:26 A** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	48.4	5.00	50.00	0	96.7	80	120	0.489	15	

Sample ID: **1912127-02C-DUP** Batch ID: **94148** TestNo: **SW9056A** Units: **mg/Kg-dry**
SampType: **DUP** Run ID: **IC4_191217A** Analysis Date: **12/17/2019 9:29:43 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	1430	54.1	0	1322				7.55	10	

Sample ID: **1912127-02CMS** Batch ID: **94148** TestNo: **SW9056A** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **IC4_191217A** Analysis Date: **12/17/2019 9:45:43 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	1490	50.8	101.5	1322	168	80	120			S

Sample ID: **1912127-02CMSD** Batch ID: **94148** TestNo: **SW9056A** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **IC4_191217A** Analysis Date: **12/17/2019 10:01:43 P** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	1440	50.2	100.4	1322	119	80	120	3.53	15	

Sample ID: **1912127-03C-DUP** Batch ID: **94148** TestNo: **SW9056A** Units: **mg/Kg-dry**
SampType: **DUP** Run ID: **IC4_191217A** Analysis Date: **12/17/2019 10:17:43 P** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	1770	53.0	0	1790				1.21	10	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191217A

Sample ID: **ICV-191217**	Batch ID: **R107960**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **IC4_191217A**	Analysis Date: **12/17/2019 9:27:26 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	24.4	5.00	25.00	0	97.7	90	110			

Sample ID: **CCV1-191217**	Batch ID: **R107960**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **IC4_191217A**	Analysis Date: **12/17/2019 2:50:11 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.89	5.00	10.00	0	98.9	90	110			

Sample ID: **CCV2-191217**	Batch ID: **R107960**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **IC4_191217A**	Analysis Date: **12/17/2019 7:05:43 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.83	5.00	10.00	0	98.3	90	110			

Sample ID: **CCV3-191217**	Batch ID: **R107960**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **IC4_191217A**	Analysis Date: **12/17/2019 11:21:43 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.85	5.00	10.00	0	98.5	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191218A

The QC data in batch 94158 applies to the following samples: 1912127-22C, 1912127-23C, 1912127-24C, 1912127-25C

Sample ID: **MB-94158**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 10:39:00 A**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<2.00	5.00								

Sample ID: **LCS-94158**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 10:55:00 A**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	48.8	5.00	50.00	0	97.7	80	120			

Sample ID: **LCSD-94158**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **LCSD**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 11:11:00 A**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	49.2	5.00	50.00	0	98.4	80	120	0.747	15	

Sample ID: **1912127-22C-DUP**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg-dry**
SampType: **DUP**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 7:40:42 PM**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2.70	5.20	0	3.314				20.6	10	R

Sample ID: **1912127-22CMS**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 7:56:42 PM**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	99.9	5.02	100.4	3.314	96.2	80	120			

Sample ID: **1912127-22CMSD**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 8:12:42 PM**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	96.9	4.87	97.41	3.314	96.0	80	120	3.07	15	

Sample ID: **1912127-23C-DUP**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg-dry**
SampType: **DUP**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 8:28:42 PM**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	42.6	5.05	0	34.67				20.5	10	R

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191218A

Sample ID: **ICV-191218**	Batch ID: **R107977**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 10:07:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	25.4	5.00	25.00	0	102	90	110			

Sample ID: **CCV1-191218**	Batch ID: **R107977**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 4:12:31 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.89	5.00	10.00	0	98.9	90	110			

Sample ID: **CCV2-191218**	Batch ID: **R107977**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 9:48:42 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.2	5.00	10.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_191216A

The QC data in batch 94138 applies to the following samples: 1912127-02C, 1912127-03C, 1912127-04C, 1912127-05C, 1912127-06C, 1912127-07C, 1912127-08C

Sample ID: **1912127-08C-DUP** Batch ID: **94138** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_191216A** Analysis Date: **12/17/2019 8:54:00 AM** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	9.43	0	0	9.848				4.29	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_191217A

The QC data in batch 94156 applies to the following samples: 1912127-09C, 1912127-10C, 1912127-11C, 1912127-12C, 1912127-13C, 1912127-14C, 1912127-15C, 1912127-16C, 1912127-17C, 1912127-18C, 1912127-19C, 1912127-20C, 1912127-21C, 1912127-22C, 1912127-23C, 1912127-24C, 1912127-25C

Sample ID: **1912150-04C-DUP** Batch ID: **94156** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_191217A** Analysis Date: **12/18/2019 8:58:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	9.46	0	0	9.641				1.92	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Work Order: 1912127
Project: Millman Station

MQL SUMMARY REPORT

TestNo: SW8260D	**MDL**	**MQL**
Analyte	**mg/L**	**mg/L**
Benzene	0.000800	0.00200
Ethylbenzene	0.00200	0.00600
Toluene	0.00200	0.00600
Total Xylenes	0.00200	0.00600

TestNo: SW8260D	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Benzene	0.0500	0.250
Ethylbenzene	0.0500	0.250
Toluene	0.0500	0.250
Xylenes, Total	0.0500	0.250

TestNo: SW9056A	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Chloride	2.00	5.00

TestNo: M8015D	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
TPH-DRO C10-C28	3.00	10.0
TPH-ORO >C28-C35	3.00	10.0

TestNo: M8015V	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Gasoline Range Organics	0.100	0.200

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

February 24, 2020

Cindy Crain
TRC Environmental Corp.
10 Desta Dr. #150E
Midland, Texas 79705
TEL: (432) 215-6730
FAX

Order No.: 1912150

RE: HEP Millman

Dear Cindy Crain:

DHL Analytical, Inc. received 7 sample(s) on 12/13/2019 for the analyses presented in the following report.

REVISION#1: This revision consists of correcting the sample IDs for DHL samples 1912150-03 through 1912150-07 as per the client. Please replace the original report with this revised report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-19-24

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

№ 80057 CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 10 Desta Dr STE 150E
PHONE: 432-215-6730 FAX/E-MAIL:
DATA REPORTED TO: ckrain@trccompanies.com
ADDITIONAL REPORT COPIES TO:

DATE: 12/12/19 PAGE 1 OF 1
PO #: 287506 DHL WORK ORDER #: 1912150
PROJECT LOCATION OR NAME: Millman
CLENT PROJECT #: COLLECTOR:

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR L=LIQUID SE=SEDIMENT P=PAINT SL=SLUDGE O=OTHER SO=SOLID

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES BTEX ☒	MTBE ☐	TPH 1005 ☐ TPH 1006 ☐ [METHOD 8021]	GRO [METHOD 8015] ☒ DRO [METHOD 8105] ☒	VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐	8270 PEST ☐ 625 PEST/PCB ☐ 608 PCB ☐ 8270 PCB ☐	8270 O-P PEST ☐ 8082 PCB ☐ 608 PCB ☐	8321 HERB ☐ T PHOS; AMMONIA ☐	METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐	RCRA ☐ TX11 ☐	PH ☐ HEX CHROM ☐ ALKALINITY ☐ COD ☐	CHLORIDE ☒ ANIONS	TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐	TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐	RCI ☐ FLASHPOINT ☐ DGAS ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	FIELD NOTES
TB-20191212	01	12/12/19	0800	Soil	VOA, 9oz	2					X	X		X								X							Direct Bill TRC
Dup-5	02		—		VOA, 4oz	4					X	X		X								X							
AH-1 @ 12'	03		0815			4					X	X		X								X							
AH-2 @ 8.5'	04		0830			4					X	X		X								X							
AH-3 @ 12'	05		0845			4					X	X		X								X							
AH-4 @ 11.5'	06		0900			4					X	X		X								X							
AH-5 @ 11.5'	07		0915			4					X	X		X								X							

Correct IDs per Cindy C
02/21/20 JD

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
	12/12/19 1700	FEDEX
FEDEX	12-13-19 0957	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

3

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ _____

LABORATORY USE ONLY:
RECEIVING TEMP: 0.6 THERM #: 78
CUSTODY SEALS: ☐ BROKEN ☒ INTACT ☐ NOT USED
CARRIER: ☐ LONE STAR ☒ FEDEX ☐ UPS ☐ OTHER
☐ COURIER DELIVERY
☐ HAND DELIVERED

DHL COC Rev 1 | FEB 2010

ORIGIN ID:HOBA (432) 238-3003
JARED STOFFEL

505 E HUNTLAND DR STE 250

AUSTIN, TX 78752
UNITED STATES US

SHIP DATE: 12DEC19
ACTWGT: 45.60 LB
CAD: 6994246/SSFE2021
DIMS: 22x12x14 IN

BILL THIRD PARTY

TO DHL ANALYTICAL
DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(512) 388-8222 REF:
INV:
PO: DEPT:

FedEx
Express

E

TRK# 0201 7788 7052 9258

FRI - 13 DEC 10:30A
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US AUS

CUSTODY SEAL

DHL ANALYTICAL

DATE 12/12/19

SIGNATURE

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name TRC Environmental Corp. Date Received: 12/13/2019

Work Order Number 1912150 Received by: CC

Checklist completed by: _____ 12/13/2019 Reviewed by CC 12/13/2019
Signature | Date | Initials | Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	0.6 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Name: DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: HEP Millman	**LRC Date:** 12/23/19
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1912150
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	**1)** Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?	X				
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			**R4-02**
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MDL?	X				
		5) For analyte(s) detected in a blank sample, was the concentration, unadjusted for sample specific factors, in all associated field samples, **greater** than 10 times the concentration in the blank sample?			X		
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?		X			**R8-03**
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				**R10-01**
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Name: DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: HEP Millman	**LRC Date:** 12/23/19
Reviewer Name: Carlos Castro	**Laboratory Work Order:** 1912150
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory is not accredited under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on February 25-28 2019. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name: John DuPont
Official Title: General Manager

Signature

02/24/20

Date

Name: Dr. Derhsing Luu
Official Title: Technical Director

DHL Analytical, Inc. **Date:** *24-Feb-20*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Lab Order: 1912150

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

- Method M8015D - DRO/ORO Analysis
Method M8015V - GRO Analysis
Method SW8260D - Volatile Organics Analysis
Method SW9056A - Anions Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 12/13/19. A total of 7 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For DRO/ORO analysis performed on 12/19/19 the surrogate recoveries for samples AH-1@12' and AH-5@11.5' were above control limits for Isopropylbenzene and/or Octacosane. These are flagged accordingly. For sample AH-5@11.5' this was due to matrix interference. For sample AH-1@12' the remaining surrogate was within control limits. No further corrective actions were taken.

Exception Report R8-03

For Anions analysis performed on 12/18/19 the samples and sample duplicates (1912127-22, 1912127-23, 1912127-22-DUP & 1912127-23-DUP) had the RPDs above control limits for Chloride. This was due to matrix effect. No further corrective actions were taken.

Exception Report R10-01

For DRO/ORO analysis sample AH-4@11.5' was diluted prior to analysis due to the nature of the sample (concentration of DRO).

For GRO analysis (batch 94142) an MS/MSD was not performed due to insufficient sample volume. An LCS/LCSD was performed instead.

DHL Analytical, Inc.

Date: *24-Feb-20*

CLIENT: TRC Environmental Corp.
Project: HEP Millman
Lab Order: 1912150

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
1912150-01	TB-20191212		12/12/19 04:00 PM	12/13/2019
1912150-02	Dup-5		12/12/19	12/13/2019
1912150-03	AH-1@12'		12/12/19 08:15 AM	12/13/2019
1912150-04	AH-2@8.5'		12/12/19 08:30 AM	12/13/2019
1912150-05	AH-3@12'		12/12/19 08:45 AM	12/13/2019
1912150-06	AH-4@11.5'		12/12/19 09:00 AM	12/13/2019
1912150-07	AH-5@11.5'		12/12/19 09:15 AM	12/13/2019

DHL Analytical, Inc.

24-Feb-20

Lab Order: 1912150
Client: TRC Environmental Corp.
Project: HEP Millman

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912150-01A	TB-20191212	12/12/19 04:00 PM	Trip Blank	SW5030C	Purge and Trap Water GC/MS	12/17/19 02:27 PM	94118
1912150-02A	Dup-5	12/12/19	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
1912150-02B	Dup-5	12/12/19	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912150-02C	Dup-5	12/12/19	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	Dup-5	12/12/19	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	Dup-5	12/12/19	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	Dup-5	12/12/19	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166
1912150-03A	AH-1@12'	12/12/19 08:15 AM	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
1912150-03B	AH-1@12'	12/12/19 08:15 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912150-03C	AH-1@12'	12/12/19 08:15 AM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-1@12'	12/12/19 08:15 AM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-1@12'	12/12/19 08:15 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	AH-1@12'	12/12/19 08:15 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166
	AH-1@12'	12/12/19 08:15 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166
1912150-04A	AH-2@8.5'	12/12/19 08:30 AM	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
1912150-04B	AH-2@8.5'	12/12/19 08:30 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912150-04C	AH-2@8.5'	12/12/19 08:30 AM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-2@8.5'	12/12/19 08:30 AM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-2@8.5'	12/12/19 08:30 AM	Soil	D2216	Moisture Preparation	12/17/19 03:11 PM	94156
	AH-2@8.5'	12/12/19 08:30 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166
1912150-05A	AH-3@12'	12/12/19 08:45 AM	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
1912150-05B	AH-3@12'	12/12/19 08:45 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912150-05C	AH-3@12'	12/12/19 08:45 AM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-3@12'	12/12/19 08:45 AM	Soil	D2216	Moisture Preparation	12/18/19 04:22 PM	94181
	AH-3@12'	12/12/19 08:45 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166
1912150-06A	AH-4@11.5'	12/12/19 09:00 AM	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
1912150-06B	AH-4@11.5'	12/12/19 09:00 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/17/19 08:36 AM	94142
1912150-06C	AH-4@11.5'	12/12/19 09:00 AM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158

DHL Analytical, Inc.

24-Feb-20

Lab Order: 1912150
Client: TRC Environmental Corp.
Project: HEP Millman

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1912150-06C	AH-4@11.5'	12/12/19 09:00 AM	Soil	D2216	Moisture Preparation	12/18/19 04:22 PM	94181
	AH-4@11.5'	12/12/19 09:00 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166
1912150-07A	AH-5@11.5'	12/12/19 09:15 AM	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
	AH-5@11.5'	12/12/19 09:15 AM	Soil	SW5035A	Purge and Trap 5035	12/16/19 10:23 AM	94128
1912150-07B	AH-5@11.5'	12/12/19 09:15 AM	Soil	SW5035A	Purge and Trap Soils GC- Gas	12/18/19 06:41 AM	94159
1912150-07C	AH-5@11.5'	12/12/19 09:15 AM	Soil	SW9056A	Anion Prep	12/17/19 03:59 PM	94158
	AH-5@11.5'	12/12/19 09:15 AM	Soil	D2216	Moisture Preparation	12/18/19 04:22 PM	94181
	AH-5@11.5'	12/12/19 09:15 AM	Soil	SW3550C	Soil Prep Sonication: DRO	12/18/19 08:34 AM	94166

Lab Order: 1912150
Client: TRC Environmental Corp.
Project: HEP Millman

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912150-01A	TB-20191212	Trip Blank	SW8260D	Volatile Aromatics by GC/MS	94118	1	12/17/19 07:17 PM	GCMS3_191217A
1912150-02A	Dup-5	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	50	12/16/19 02:48 PM	GCMS2_191216A
1912150-02B	Dup-5	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 03:24 PM	GC4_191217A
1912150-02C	Dup-5	Soil	SW9056A	Anions by IC method - Soil	94158	10	12/18/19 02:36 PM	IC4_191218A
	Dup-5	Soil	SW9056A	Anions by IC method - Soil	94158	1	12/18/19 06:04 PM	IC4_191218A
	Dup-5	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	Dup-5	Soil	M8015D	TPH Extractable by GC - Soil	94166	1	12/19/19 02:17 PM	GC15_191219A
1912150-03A	AH-1@12'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	50	12/16/19 03:16 PM	GCMS2_191216A
1912150-03B	AH-1@12'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 06:35 PM	GC4_191217A
1912150-03C	AH-1@12'	Soil	SW9056A	Anions by IC method - Soil	94158	10	12/18/19 02:52 PM	IC4_191218A
	AH-1@12'	Soil	SW9056A	Anions by IC method - Soil	94158	1	12/18/19 06:20 PM	IC4_191218A
	AH-1@12'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	AH-1@12'	Soil	M8015D	TPH Extractable by GC - Soil	94166	100	12/19/19 04:20 PM	GC15_191219A
	AH-1@12'	Soil	M8015D	TPH Extractable by GC - Soil	94166	1	12/19/19 05:49 PM	GC15_191219A
1912150-04A	AH-2@8.5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	50	12/16/19 03:45 PM	GCMS2_191216A
1912150-04B	AH-2@8.5'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 06:58 PM	GC4_191217A
1912150-04C	AH-2@8.5'	Soil	SW9056A	Anions by IC method - Soil	94158	10	12/18/19 03:08 PM	IC4_191218A
	AH-2@8.5'	Soil	SW9056A	Anions by IC method - Soil	94158	1	12/18/19 06:36 PM	IC4_191218A
	AH-2@8.5'	Soil	D2216	Percent Moisture	94156	1	12/18/19 08:58 AM	PMOIST_191217A
	AH-2@8.5'	Soil	M8015D	TPH Extractable by GC - Soil	94166	1	12/19/19 02:26 PM	GC15_191219A
1912150-05A	AH-3@12'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	50	12/16/19 04:13 PM	GCMS2_191216A
1912150-05B	AH-3@12'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 07:22 PM	GC4_191217A
1912150-05C	AH-3@12'	Soil	SW9056A	Anions by IC method - Soil	94158	1	12/18/19 06:52 PM	IC4_191218A
	AH-3@12'	Soil	D2216	Percent Moisture	94181	1	12/19/19 08:37 AM	PMOIST_191218A
	AH-3@12'	Soil	M8015D	TPH Extractable by GC - Soil	94166	1	12/19/19 02:35 PM	GC15_191219A
1912150-06A	AH-4@11.5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	50	12/16/19 04:41 PM	GCMS2_191216A
1912150-06B	AH-4@11.5'	Soil	M8015V	TPH Purgeable by GC - Soil	94142	20	12/17/19 07:46 PM	GC4_191217A
1912150-06C	AH-4@11.5'	Soil	SW9056A	Anions by IC method - Soil	94158	1	12/18/19 07:08 PM	IC4_191218A

Lab Order: 1912150
Client: TRC Environmental Corp.
Project: HEP Millman

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1912150-06C	AH-4@11.5'	Soil	D2216	Percent Moisture	94181	1	12/19/19 08:37 AM	PMOIST_191218A
	AH-4@11.5'	Soil	M8015D	TPH Extractable by GC - Soil	94166	10	12/19/19 04:29 PM	GC15_191219A
1912150-07A	AH-5@11.5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	2000	12/16/19 08:28 PM	GCMS2_191216A
	AH-5@11.5'	Soil	SW8260D	Volatiles by 8260/5035 GC/MS	94128	50	12/17/19 04:07 PM	GCMS2_191217B
1912150-07B	AH-5@11.5'	Soil	M8015V	TPH Purgeable by GC - Soil	94159	200	12/18/19 11:28 PM	GC4_191218A
1912150-07C	AH-5@11.5'	Soil	SW9056A	Anions by IC method - Soil	94158	1	12/18/19 07:24 PM	IC4_191218A
	AH-5@11.5'	Soil	D2216	Percent Moisture	94181	1	12/19/19 08:37 AM	PMOIST_191218A
	AH-5@11.5'	Soil	M8015D	TPH Extractable by GC - Soil	94166	100	12/19/19 04:38 PM	GC15_191219A

DHL Analytical, Inc.

Date: *24-Feb-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	TB-20191212
Project:	HEP Millman	**Lab ID:**	1912150-01
Project No:	WO#147667	**Collection Date:**	12/12/19 04:00 PM
Lab Order:	1912150	**Matrix:**	TRIP BLANK

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
VOLATILE AROMATICS BY GC/MS		**SW8260D**					Analyst: **BTJ**
Benzene	<0.000800	0.000800	0.00200		mg/L	1	12/17/19 07:17 PM
Ethylbenzene	<0.00200	0.00200	0.00600		mg/L	1	12/17/19 07:17 PM
Toluene	<0.00200	0.00200	0.00600		mg/L	1	12/17/19 07:17 PM
Total Xylenes	<0.00200	0.00200	0.00600		mg/L	1	12/17/19 07:17 PM
Surr: 1,2-Dichloroethane-d4	99.1	0	72-119		%REC	1	12/17/19 07:17 PM
Surr: 4-Bromofluorobenzene	98.4	0	76-119		%REC	1	12/17/19 07:17 PM
Surr: Dibromofluoromethane	101	0	85-115		%REC	1	12/17/19 07:17 PM
Surr: Toluene-d8	99.9	0	81-120		%REC	1	12/17/19 07:17 PM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *24-Feb-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	Dup-5
Project:	HEP Millman	**Lab ID:**	1912150-02
Project No:	WO#147667	**Collection Date:**	12/12/19
Lab Order:	1912150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	10.7	3.27	10.9	J	mg/Kg-dry	1	12/19/19 02:17 PM
TPH-ORO >C28-C35	<3.27	3.27	10.9		mg/Kg-dry	1	12/19/19 02:17 PM
Surr: Isopropylbenzene	85.1	0	47-142		%REC	1	12/19/19 02:17 PM
Surr: Octacosane	75.3	0	25-162		%REC	1	12/19/19 02:17 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	7.22	1.95	3.91		mg/Kg-dry	20	12/17/19 03:24 PM
Surr: Tetrachlorethene	98.2	0	70-134		%REC	20	12/17/19 03:24 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0488	0.0488	0.244		mg/Kg-dry	50	12/16/19 02:48 PM
Ethylbenzene	<0.0488	0.0488	0.244		mg/Kg-dry	50	12/16/19 02:48 PM
Toluene	<0.0488	0.0488	0.244		mg/Kg-dry	50	12/16/19 02:48 PM
Xylenes, Total	<0.0488	0.0488	0.244		mg/Kg-dry	50	12/16/19 02:48 PM
Surr: 1,2-Dichloroethane-d4	91.2	0	52-149		%REC	50	12/16/19 02:48 PM
Surr: 4-Bromofluorobenzene	92.5	0	84-118		%REC	50	12/16/19 02:48 PM
Surr: Dibromofluoromethane	95.1	0	65-135		%REC	50	12/16/19 02:48 PM
Surr: Toluene-d8	94.1	0	84-116		%REC	50	12/16/19 02:48 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	5.59	2.10	5.26		mg/Kg-dry	1	12/18/19 06:04 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	10.0	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *24-Feb-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	AH-1@12'
Project:	HEP Millman	**Lab ID:**	1912150-03
Project No:	WO#147667	**Collection Date:**	12/12/19 08:15 AM
Lab Order:	1912150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	264	3.16	10.5		mg/Kg-dry	1	12/19/19 05:49 PM
TPH-ORO >C28-C35	218	3.16	10.5		mg/Kg-dry	1	12/19/19 05:49 PM
Surr: Isopropylbenzene	92.9	0	47-142		%REC	1	12/19/19 05:49 PM
Surr: Octacosane	355	0	25-162	S	%REC	1	12/19/19 05:49 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	6.48	1.95	3.90		mg/Kg-dry	20	12/17/19 06:35 PM
Surr: Tetrachlorethene	103	0	70-134		%REC	20	12/17/19 06:35 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0487	0.0487	0.244		mg/Kg-dry	50	12/16/19 03:16 PM
Ethylbenzene	<0.0487	0.0487	0.244		mg/Kg-dry	50	12/16/19 03:16 PM
Toluene	0.0828	0.0487	0.244	J	mg/Kg-dry	50	12/16/19 03:16 PM
Xylenes, Total	0.235	0.0487	0.244	J	mg/Kg-dry	50	12/16/19 03:16 PM
Surr: 1,2-Dichloroethane-d4	86.6	0	52-149		%REC	50	12/16/19 03:16 PM
Surr: 4-Bromofluorobenzene	92.1	0	84-118		%REC	50	12/16/19 03:16 PM
Surr: Dibromofluoromethane	92.9	0	65-135		%REC	50	12/16/19 03:16 PM
Surr: Toluene-d8	92.8	0	84-116		%REC	50	12/16/19 03:16 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	27.0	2.01	5.02		mg/Kg-dry	1	12/18/19 06:20 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	7.86	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAP certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *24-Feb-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	AH-2@8.5'
Project:	HEP Millman	**Lab ID:**	1912150-04
Project No:	WO#147667	**Collection Date:**	12/12/19 08:30 AM
Lab Order:	1912150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	8.07	3.24	10.8	J	mg/Kg-dry	1	12/19/19 02:26 PM
TPH-ORO >C28-C35	<3.24	3.24	10.8		mg/Kg-dry	1	12/19/19 02:26 PM
Surr: Isopropylbenzene	84.3	0	47-142		%REC	1	12/19/19 02:26 PM
Surr: Octacosane	75.4	0	25-162		%REC	1	12/19/19 02:26 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<1.93	1.93	3.86		mg/Kg-dry	20	12/17/19 06:58 PM
Surr: Tetrachlorethene	111	0	70-134		%REC	20	12/17/19 06:58 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0483	0.0483	0.241		mg/Kg-dry	50	12/16/19 03:45 PM
Ethylbenzene	<0.0483	0.0483	0.241		mg/Kg-dry	50	12/16/19 03:45 PM
Toluene	<0.0483	0.0483	0.241		mg/Kg-dry	50	12/16/19 03:45 PM
Xylenes, Total	<0.0483	0.0483	0.241		mg/Kg-dry	50	12/16/19 03:45 PM
Surr: 1,2-Dichloroethane-d4	88.4	0	52-149		%REC	50	12/16/19 03:45 PM
Surr: 4-Bromofluorobenzene	89.7	0	84-118		%REC	50	12/16/19 03:45 PM
Surr: Dibromofluoromethane	96.2	0	65-135		%REC	50	12/16/19 03:45 PM
Surr: Toluene-d8	95.2	0	84-116		%REC	50	12/16/19 03:45 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	5.42	2.12	5.31		mg/Kg-dry	1	12/18/19 06:36 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	9.64	0	0		WT%	1	12/18/19 08:58 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *24-Feb-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	AH-3@12'
Project:	HEP Millman	**Lab ID:**	1912150-05
Project No:	WO#147667	**Collection Date:**	12/12/19 08:45 AM
Lab Order:	1912150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	130	3.24	10.8		mg/Kg-dry	1	12/19/19 02:35 PM
TPH-ORO >C28-C35	28.7	3.24	10.8		mg/Kg-dry	1	12/19/19 02:35 PM
Surr: Isopropylbenzene	90.4	0	47-142		%REC	1	12/19/19 02:35 PM
Surr: Octacosane	120	0	25-162		%REC	1	12/19/19 02:35 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	2.41	2.01	4.02	J	mg/Kg-dry	20	12/17/19 07:22 PM
Surr: Tetrachlorethene	115	0	70-134		%REC	20	12/17/19 07:22 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0502	0.0502	0.251		mg/Kg-dry	50	12/16/19 04:13 PM
Ethylbenzene	<0.0502	0.0502	0.251		mg/Kg-dry	50	12/16/19 04:13 PM
Toluene	<0.0502	0.0502	0.251		mg/Kg-dry	50	12/16/19 04:13 PM
Xylenes, Total	<0.0502	0.0502	0.251		mg/Kg-dry	50	12/16/19 04:13 PM
Surr: 1,2-Dichloroethane-d4	87.3	0	52-149		%REC	50	12/16/19 04:13 PM
Surr: 4-Bromofluorobenzene	92.2	0	84-118		%REC	50	12/16/19 04:13 PM
Surr: Dibromofluoromethane	97.2	0	65-135		%REC	50	12/16/19 04:13 PM
Surr: Toluene-d8	94.9	0	84-116		%REC	50	12/16/19 04:13 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	20.4	2.10	5.24		mg/Kg-dry	1	12/18/19 06:52 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	9.52	0	0		WT%	1	12/19/19 08:37 AM

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAP certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *24-Feb-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	AH-4@11.5'
Project:	HEP Millman	**Lab ID:**	1912150-06
Project No:	WO#147667	**Collection Date:**	12/12/19 09:00 AM
Lab Order:	1912150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	280	34.3	114		mg/Kg-dry	10	12/19/19 04:29 PM
TPH-ORO >C28-C35	<34.3	34.3	114		mg/Kg-dry	10	12/19/19 04:29 PM
Surr: Isopropylbenzene	98.9	0	47-142		%REC	10	12/19/19 04:29 PM
Surr: Octacosane	148	0	25-162		%REC	10	12/19/19 04:29 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	37.4	2.15	4.31		mg/Kg-dry	20	12/17/19 07:46 PM
Surr: Tetrachlorethene	108	0	70-134		%REC	20	12/17/19 07:46 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	<0.0538	0.0538	0.269		mg/Kg-dry	50	12/16/19 04:41 PM
Ethylbenzene	0.167	0.0538	0.269	J	mg/Kg-dry	50	12/16/19 04:41 PM
Toluene	0.291	0.0538	0.269		mg/Kg-dry	50	12/16/19 04:41 PM
Xylenes, Total	0.883	0.0538	0.269		mg/Kg-dry	50	12/16/19 04:41 PM
Surr: 1,2-Dichloroethane-d4	85.3	0	52-149		%REC	50	12/16/19 04:41 PM
Surr: 4-Bromofluorobenzene	90.1	0	84-118		%REC	50	12/16/19 04:41 PM
Surr: Dibromofluoromethane	92.6	0	65-135		%REC	50	12/16/19 04:41 PM
Surr: Toluene-d8	93.8	0	84-116		%REC	50	12/16/19 04:41 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	7.27	2.24	5.61		mg/Kg-dry	1	12/18/19 07:08 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	14.1	0	0		WT%	1	12/19/19 08:37 AM

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAP certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *24-Feb-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	AH-5@11.5'
Project:	HEP Millman	**Lab ID:**	1912150-07
Project No:	WO#147667	**Collection Date:**	12/12/19 09:15 AM
Lab Order:	1912150	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	13900	305	1020		mg/Kg-dry	100	12/19/19 04:38 PM
TPH-ORO >C28-C35	1720	305	1020		mg/Kg-dry	100	12/19/19 04:38 PM
Surr: Isopropylbenzene	494	0	47-142	S	%REC	100	12/19/19 04:38 PM
Surr: Octacosane	3690	0	25-162	S	%REC	100	12/19/19 04:38 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	1820	19.3	38.7		mg/Kg-dry	200	12/18/19 11:28 PM
Surr: Tetrachlorethene	85.1	0	70-134		%REC	200	12/18/19 11:28 PM
VOLATILES BY 8260/5035 GC/MS		**SW8260D**					Analyst: **DEW**
Benzene	0.596	0.0484	0.242		mg/Kg-dry	50	12/17/19 04:07 PM
Ethylbenzene	0.956	0.0484	0.242		mg/Kg-dry	50	12/17/19 04:07 PM
Toluene	2.72	0.0484	0.242		mg/Kg-dry	50	12/17/19 04:07 PM
Xylenes, Total	2.81	0.0484	0.242		mg/Kg-dry	50	12/17/19 04:07 PM
Surr: 1,2-Dichloroethane-d4	90.5	0	52-149		%REC	50	12/17/19 04:07 PM
Surr: 4-Bromofluorobenzene	94.4	0	84-118		%REC	50	12/17/19 04:07 PM
Surr: Dibromofluoromethane	99.9	0	65-135		%REC	50	12/17/19 04:07 PM
Surr: Toluene-d8	92.9	0	84-116		%REC	50	12/17/19 04:07 PM
ANIONS BY IC METHOD - SOIL		**SW9056A**					Analyst: **SNM**
Chloride	5.97	2.16	5.40		mg/Kg-dry	1	12/18/19 07:24 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	9.33	0	0		WT%	1	12/19/19 08:37 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc. **Date:** *23-Dec-19*

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_191127A

Sample ID: **DCS-93833** Batch ID: **93833** TestNo: **M8015D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GC15_191127A** Analysis Date: **11/27/2019 10:46:10 A** Prep Date: **11/22/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	9.76	10.0	15.00	0	65.1	20	400	0	0	
Surr: Isopropylbenzene	6.02		7.500		80.2	47	142	0	0	
Surr: Octacosane	6.58		7.500		87.7	25	162	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_191219A

The QC data in batch 94166 applies to the following samples: 1912150-02C, 1912150-03C, 1912150-04C, 1912150-05C, 1912150-06C, 1912150-07C

Sample ID: **MB-94166** Batch ID: **94166** TestNo: **M8015D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC15_191219A** Analysis Date: **12/19/2019 1:32:29 PM** Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<3.00	10.0								
TPH-ORO >C28-C35	<3.00	10.0								
Surr: Isopropylbenzene	7.42		7.500		98.9	47	142			
Surr: Octacosane	5.02		7.500		66.9	25	162			

Sample ID: **LCS-94166** Batch ID: **94166** TestNo: **M8015D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC15_191219A** Analysis Date: **12/19/2019 1:41:33 PM** Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	116	10.0	125.0	0	92.5	50	114			
Surr: Isopropylbenzene	8.00		7.500		107	47	142			
Surr: Octacosane	5.36		7.500		71.5	25	162			

Sample ID: **1912127-22CMS** Batch ID: **94166** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC15_191219A** Analysis Date: **12/19/2019 1:59:40 PM** Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	133	9.95	124.4	15.10	95.0	50	114			
Surr: Isopropylbenzene	8.47		7.463		113	47	142			
Surr: Octacosane	5.75		7.463		77.1	25	162			

Sample ID: **1912127-22CMSD** Batch ID: **94166** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC15_191219A** Analysis Date: **12/19/2019 2:08:43 PM** Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	128	9.96	124.5	15.10	90.3	50	114	4.44	30	
Surr: Isopropylbenzene	7.74		7.470		104	47	142	0	0	
Surr: Octacosane	5.98		7.470		80.1	25	162	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_191219A

Sample ID: **ICV-191219**	Batch ID: **R108017**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC15_191219A**	Analysis Date: **12/19/2019 1:21:59 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	542	10.0	500.0	0	108	80	120			
Surr: Isopropylbenzene	28.6		25.00		114	80	120			
Surr: Octacosane	20.0		25.00		80.1	80	120			

Sample ID: **CCV1-191219**	Batch ID: **R108017**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_191219A**	Analysis Date: **12/19/2019 3:44:05 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	251	10.0	250.0	0	100	80	120			
Surr: Isopropylbenzene	14.9		12.50		119	80	120			
Surr: Octacosane	10.2		12.50		81.7	80	120			

Sample ID: **CCV2-191219**	Batch ID: **R108017**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_191219A**	Analysis Date: **12/19/2019 6:07:25 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	233	10.0	250.0	0	93.3	80	120			
Surr: Isopropylbenzene	14.9		12.50		119	80	120			
Surr: Octacosane	10.9		12.50		86.9	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191017A

Sample ID: **DCS-93268** Batch ID: **93268** TestNo: **M8015V** Units: **mg/Kg**
SampType: **DCS** Run ID: **GC4_191017A** Analysis Date: **10/17/2019 7:45:54 PM** Prep Date: **10/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	0.173	0.200	0.2000	0	86.7	31	161	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191217A

The QC data in batch 94142 applies to the following samples: 1912150-02B, 1912150-03B, 1912150-04B, 1912150-05B, 1912150-06B

Sample ID: **LCS-94142 MEOH** Batch ID: **94142** TestNo: **M8015V** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC4_191217A** Analysis Date: **12/17/2019 10:37:09 A** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	3.01	0.200	2.500	0	120	68	126			
Surr: Tetrachlorethene	0.447		0.4000		112	70	134			

Sample ID: **MB-94142 MEOH** Batch ID: **94142** TestNo: **M8015V** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC4_191217A** Analysis Date: **12/17/2019 11:48:44 A** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.100	0.200								
Surr: Tetrachlorethene	0.445		0.4000		111	70	134			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191217A

Sample ID: **ICV-191217**	Batch ID: **R107965**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC4_191217A**	Analysis Date: **12/17/2019 10:13:18 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	5.43	0.200	5.000	0	109	80	120			
Surr: Tetrachlorethene	0.407		0.4000		102	70	134			

Sample ID: **CCV1-191217**	Batch ID: **R107965**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191217A**	Analysis Date: **12/17/2019 5:23:14 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.75	0.200	2.500	0	110	80	120			
Surr: Tetrachlorethene	0.426		0.4000		107	70	134			

Sample ID: **CCV2-191217**	Batch ID: **R107965**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191217A**	Analysis Date: **12/17/2019 10:33:22 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.55	0.200	2.500	0	102	80	120			
Surr: Tetrachlorethene	0.443		0.4000		111	70	134			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191218A

The QC data in batch 94159 applies to the following samples: 1912150-07B

Sample ID: **LCS-94159 MEOH**	Batch ID: **94159**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 8:43:12 AM**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.90	0.200	2.500	0	116	68	126			
Surr: Tetrachlorethene	0.474		0.4000		118	70	134			

Sample ID: **MB-94159 MEOH**	Batch ID: **94159**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 9:55:11 AM**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.100	0.200								
Surr: Tetrachlorethene	0.526		0.4000		132	70	134			

Sample ID: **1912127-09BMS**	Batch ID: **94159**	TestNo: **M8015V**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 10:16:30 P**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	3860	198	2481	1422	98.2	68	126			
Surr: Tetrachlorethene	376		397.0		94.6	70	134			

Sample ID: **1912127-09BMSD**	Batch ID: **94159**	TestNo: **M8015V**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 10:40:15 P**	Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4550	198	2481	1422	126	68	126	16.5	30	
Surr: Tetrachlorethene	427		397.0		108	70	134	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	DF	Dilution Factor
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
	RL	Reporting Limit	S	Spike Recovery outside control limits
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_191218A

Sample ID: **ICV-191218**	Batch ID: **R107996**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 8:19:18 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	5.36	0.200	5.000	0	107	80	120			
Surr: Tetrachlorethene	0.461		0.4000		115	70	134			

Sample ID: **CCV1-191218**	Batch ID: **R107996**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 3:53:48 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.59	0.200	2.500	0	104	80	120			
Surr: Tetrachlorethene	0.486		0.4000		121	70	134			

Sample ID: **CCV2-191218**	Batch ID: **R107996**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191218A**	Analysis Date: **12/18/2019 11:04:15 P**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.75	0.200	2.500	0	110	80	120			
Surr: Tetrachlorethene	0.496		0.4000		124	70	134			

Sample ID: **CCV3-191218**	Batch ID: **R107996**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_191218A**	Analysis Date: **12/19/2019 1:04:03 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.69	0.200	2.500	0	108	80	120			
Surr: Tetrachlorethene	0.431		0.4000		108	70	134			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191118A

Sample ID: **DCS-93748** Batch ID: **93748** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GCMS2_191118A** Analysis Date: **11/18/2019 1:08:00 PM** Prep Date: **11/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.00284	0.00500	0.00232	0	122	10	400	0	0	
Ethylbenzene	0.00243	0.00500	0.00232	0	105	10	400	0	0	
Toluene	0.00273	0.00500	0.00232	0	118	10	400	0	0	
Total Xylenes	0.00686	0.00500	0.00696	0	98.6	10	400	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191216A

The QC data in batch 94128 applies to the following samples: 1912150-02A, 1912150-03A, 1912150-04A, 1912150-05A, 1912150-06A, 1912150-07A

Sample ID: **LCS-94128 MEOH** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 11:02:00 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.29	0.250	1.16	0	111	73	126			
Ethylbenzene	1.32	0.250	1.16	0	114	74	127			
Toluene	1.33	0.250	1.16	0	114	71	127			
Xylenes, Total	3.97	0.250	3.48	0	114	75	125			
Surr: 1,2-Dichloroethane-d4	2210		2500		88.5	52	149			
Surr: 4-Bromofluorobenzene	2280		2500		91.2	84	118			
Surr: Dibromofluoromethane	2510		2500		100	65	135			
Surr: Toluene-d8	2460		2500		98.6	84	116			

Sample ID: **MB-94128 MEOH** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 11:30:00 A** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.0500	0.250								
Ethylbenzene	<0.0500	0.250								
Toluene	<0.0500	0.250								
Xylenes, Total	<0.0500	0.250								
Surr: 1,2-Dichloroethane-d4	2190		2500		87.7	52	149			
Surr: 4-Bromofluorobenzene	2340		2500		93.6	84	118			
Surr: Dibromofluoromethane	2520		2500		101	65	135			
Surr: Toluene-d8	2350		2500		94.0	84	116			

Sample ID: **1912127-22AMS** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 12:27:00 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.31	0.262	1.22	0	108	73	126			
Ethylbenzene	1.27	0.262	1.22	0	104	74	127			
Toluene	1.36	0.262	1.22	0	111	71	127			
Xylenes, Total	3.80	0.262	3.65	0	104	75	125			
Surr: 1,2-Dichloroethane-d4	2270		2623		86.4	52	149			
Surr: 4-Bromofluorobenzene	2260		2623		86.1	84	118			
Surr: Dibromofluoromethane	2550		2623		97.1	65	135			
Surr: Toluene-d8	2530		2623		96.3	84	116			

Sample ID: **1912127-22AMSD** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 12:55:00 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.30	0.262	1.22	0	107	73	126	0.643	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191216A

Sample ID: **1912127-22AMSD** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 12:55:00 P** Prep Date: **12/16/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	1.29	0.262	1.22	0	106	74	127	1.77	30	
Toluene	1.35	0.262	1.22	0	111	71	127	0.466	30	
Xylenes, Total	3.79	0.262	3.65	0	104	75	125	0.096	30	
Surr: 1,2-Dichloroethane-d4	2380		2623		90.8	52	149	0	0	
Surr: 4-Bromofluorobenzene	2300		2623		87.6	84	118	0	0	
Surr: Dibromofluoromethane	2630		2623		100	65	135	0	0	
Surr: Toluene-d8	2470		2623		94.1	84	116	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191216A

Sample ID: **ICV-191216** Batch ID: **R107948** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191216A** Analysis Date: **12/16/2019 10:34:00 A** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0489	0.00500	0.0464	0	105	80	120			
Ethylbenzene	0.0489	0.00500	0.0464	0	105	80	120			
Toluene	0.0509	0.00500	0.0464	0	110	80	120			
Xylenes, Total	0.148	0.00500	0.139	0	106	80	120			
Surr: 1,2-Dichloroethane-d4	44.9		50.00		89.8	52	149			
Surr: 4-Bromofluorobenzene	47.6		50.00		95.2	84	118			
Surr: Dibromofluoromethane	50.6		50.00		101	65	135			
Surr: Toluene-d8	46.1		50.00		92.2	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191217B

The QC data in batch 94128 applies to the following samples: 1912150-02A, 1912150-03A, 1912150-04A, 1912150-05A, 1912150-06A, 1912150-07A

Sample ID: **SB-191217** Batch ID: **94128** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **SBLK** Run ID: **GCMS2_191217B** Analysis Date: **12/17/2019 10:48:00 A** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.00100	0.00500	0							
Ethylbenzene	<0.00100	0.00500	0							
Toluene	<0.00100	0.00500	0							
Xylenes, Total	<0.00100	0.00500	0							
Surr: 1,2-Dichloroethane-d4	44.1		0							
Surr: 4-Bromofluorobenzene	44.0		0							
Surr: Dibromofluoromethane	52.2		0							
Surr: Toluene-d8	46.6		0							

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_191217B

Sample ID: **ICV-191217** Batch ID: **R107963** TestNo: **SW8260D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GCMS2_191217B** Analysis Date: **12/17/2019 9:51:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0513	0.00500	0.0464	0	111	80	120			
Ethylbenzene	0.0510	0.00500	0.0464	0	110	80	120			
Toluene	0.0507	0.00500	0.0464	0	109	80	120			
Xylenes, Total	0.146	0.00500	0.139	0	105	80	120			
Surr: 1,2-Dichloroethane-d4	43.5		50.00		87.1	52	149			
Surr: 4-Bromofluorobenzene	46.4		50.00		92.8	84	118			
Surr: Dibromofluoromethane	50.4		50.00		101	65	135			
Surr: Toluene-d8	48.1		50.00		96.2	84	116			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191121A

Sample ID: **DCS-93791** Batch ID: **93791** TestNo: **SW8260D** Units: **mg/L**
SampType: **DCS** Run ID: **GCMS3_191121A** Analysis Date: **11/21/2019 9:51:00 AM** Prep Date: **11/21/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.000529	0.00200	0.000464	0	114	10	400	0	0	
Ethylbenzene	0.000528	0.00600	0.000464	0	114	10	400	0	0	
Toluene	0.000546	0.00600	0.000464	0	118	10	400	0	0	
Total Xylenes	0.00161	0.00600	0.00139	0	116	10	400	0	0	
Surr: 1,2-Dichloroethane-d4	44.7		50.00		89.5	72	119	0	0	
Surr: 4-Bromofluorobenzene	48.3		50.00		96.5	76	119	0	0	
Surr: Dibromofluoromethane	50.9		50.00		102	85	115	0	0	
Surr: Toluene-d8	48.9		50.00		97.8	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

The QC data in batch 94118 applies to the following samples: 1912150-01A

Sample ID: **LCS-94118** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:33:00 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0456	0.00200	0.0464	0	98.4	81	122			
Ethylbenzene	0.0454	0.00600	0.0464	0	97.9	73	127			
Toluene	0.0461	0.00600	0.0464	0	99.4	77	122			
Total Xylenes	0.135	0.00600	0.139	0	96.8	80	121			
Surr: 1,2-Dichloroethane-d4	49.8		50.00		99.5	72	119			
Surr: 4-Bromofluorobenzene	48.3		50.00		96.6	76	119			
Surr: Dibromofluoromethane	50.6		50.00		101	85	115			
Surr: Toluene-d8	49.8		50.00		99.7	81	120			

Sample ID: **MB-94118** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:59:00 PM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	<0.000800	0.00200								
Ethylbenzene	<0.00200	0.00600								
Toluene	<0.00200	0.00600								
Total Xylenes	<0.00200	0.00600								
Surr: 1,2-Dichloroethane-d4	49.4		50.00		98.8	72	119			
Surr: 4-Bromofluorobenzene	49.3		50.00		98.6	76	119			
Surr: Dibromofluoromethane	50.4		50.00		101	85	115			
Surr: Toluene-d8	50.0		50.00		100	81	120			

Sample ID: **1912145-12AMS** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MS** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:32:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.70	0.100	2.32	0.562	92.0	81	122			
Ethylbenzene	2.14	0.300	2.32	0	92.0	73	127			
Toluene	2.14	0.300	2.32	0	92.3	77	122			
Total Xylenes	6.20	0.300	6.95	0	89.2	80	121			
Surr: 1,2-Dichloroethane-d4	2460		2500		98.2	72	119			
Surr: 4-Bromofluorobenzene	2390		2500		95.7	76	119			
Surr: Dibromofluoromethane	2520		2500		101	85	115			
Surr: Toluene-d8	2480		2500		99.1	81	120			

Sample ID: **1912145-12AMSD** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:57:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	2.70	0.100	2.32	0.562	92.3	81	122	0.216	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

Sample ID: **1912145-12AMSD** Batch ID: **94118** TestNo: **SW8260D** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS3_191217A** Analysis Date: **12/18/2019 2:57:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	2.14	0.300	2.32	0	92.4	73	127	0.425	20	
Toluene	2.16	0.300	2.32	0	93.2	77	122	0.964	20	
Total Xylenes	6.42	0.300	6.95	0	92.4	80	121	3.59	20	
Surr: 1,2-Dichloroethane-d4	2480		2500		99.4	72	119	0	0	
Surr: 4-Bromofluorobenzene	2420		2500		97.0	76	119	0	0	
Surr: Dibromofluoromethane	2520		2500		101	85	115	0	0	
Surr: Toluene-d8	2490		2500		99.4	81	120	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_191217A

Sample ID: **ICV-191217** Batch ID: **R107983** TestNo: **SW8260D** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS3_191217A** Analysis Date: **12/17/2019 5:07:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0898	0.00200	0.0928	0	96.8	80	120			
Ethylbenzene	0.0900	0.00600	0.0928	0	97.0	80	120			
Toluene	0.0905	0.00600	0.0928	0	97.5	80	120			
Total Xylenes	0.261	0.00600	0.278	0	93.9	80	120			
Surr: 1,2-Dichloroethane-d4	49.3		50.00		98.6	72	119			
Surr: 4-Bromofluorobenzene	48.3		50.00		96.6	76	119			
Surr: Dibromofluoromethane	50.3		50.00		101	85	115			
Surr: Toluene-d8	49.9		50.00		99.8	81	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191002A

Sample ID: **DCS-93058** Batch ID: **93058** TestNo: **SW9056A** Units: **mg/Kg**
SampType: **DCS** Run ID: **IC4_191002A** Analysis Date: **10/2/2019 12:37:56 PM** Prep Date: **10/2/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2.66	5.00	2.500	0	106	65	135	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191218A

The QC data in batch 94158 applies to the following samples: 1912150-02C, 1912150-03C, 1912150-04C, 1912150-05C, 1912150-06C, 1912150-07C

Sample ID: **MB-94158**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 10:39:00 A**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	<2.00	5.00								

Sample ID: **LCS-94158**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 10:55:00 A**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	48.8	5.00	50.00	0	97.7	80	120			

Sample ID: **LCSD-94158**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **LCSD**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 11:11:00 A**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	49.2	5.00	50.00	0	98.4	80	120	0.747	15	

Sample ID: **1912127-22C-DUP**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg-dry**
SampType: **DUP**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 7:40:42 PM**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	2.70	5.20	0	3.314				20.6	10	R

Sample ID: **1912127-22CMS**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 7:56:42 PM**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	99.9	5.02	100.4	3.314	96.2	80	120			

Sample ID: **1912127-22CMSD**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 8:12:42 PM**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	96.9	4.87	97.41	3.314	96.0	80	120	3.07	15	

Sample ID: **1912127-23C-DUP**	Batch ID: **94158**	TestNo: **SW9056A**	Units: **mg/Kg-dry**
SampType: **DUP**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 8:28:42 PM**	Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	42.6	5.05	0	34.67				20.5	10	R

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: IC4_191218A

Sample ID: **ICV-191218**	Batch ID: **R107977**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 10:07:00 A**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	25.4	5.00	25.00	0	102	90	110			

Sample ID: **CCV1-191218**	Batch ID: **R107977**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 4:12:31 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	9.89	5.00	10.00	0	98.9	90	110			

Sample ID: **CCV2-191218**	Batch ID: **R107977**	TestNo: **SW9056A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **IC4_191218A**	Analysis Date: **12/18/2019 9:48:42 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	10.2	5.00	10.00	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: **PMOIST_191217A**

The QC data in batch 94156 applies to the following samples: 1912150-02C, 1912150-03C, 1912150-04C

Sample ID: **1912150-04C-DUP** Batch ID: **94156** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_191217A** Analysis Date: **12/18/2019 8:58:00 AM** Prep Date: **12/17/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	9.46	0	0	9.641				1.92	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_191218A

The QC data in batch 94181 applies to the following samples: 1912150-05C, 1912150-06C, 1912150-07C

Sample ID: **1912160-02C-DUP** Batch ID: **94181** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_191218A** Analysis Date: **12/19/2019 8:37:00 AM** Prep Date: **12/18/2019**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	12.1	0	0	11.33				6.26	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *23-Dec-19*

CLIENT: TRC Environmental Corp.
Work Order: 1912150
Project: HEP Millman

MQL SUMMARY REPORT

TestNo: SW8260D	**MDL**	**MQL**
Analyte	**mg/L**	**mg/L**
Benzene	0.000800	0.00200
Ethylbenzene	0.00200	0.00600
Toluene	0.00200	0.00600
Total Xylenes	0.00200	0.00600

TestNo: SW8260D	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Benzene	0.0500	0.250
Ethylbenzene	0.0500	0.250
Toluene	0.0500	0.250
Xylenes, Total	0.0500	0.250

TestNo: SW9056A	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Chloride	2.00	5.00

TestNo: M8015D	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
TPH-DRO C10-C28	3.00	10.0
TPH-ORO >C28-C35	3.00	10.0

TestNo: M8015V	**MDL**	**MQL**
Analyte	**mg/Kg**	**mg/Kg**
Gasoline Range Organics	0.100	0.200

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

April 13, 2020

Cindy Crain
TRC Environmental Corp.
10 Desta Dr. #150E
Midland, Texas 79705
TEL: (432) 215-6730
FAX:

Order No.: 2004023

RE: HEP Millman Station

Dear Cindy Crain:

DHL Analytical, Inc. received 5 sample(s) on 4/2/2020 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAP except where noted in the Case Narrative. All non-NELAP methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-19-24

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

Nº

CHAIN-OF-CUSTODY

CLIENT: TRC
ADDRESS: 10 Desta Drive, Ste. 150E, Midland, TX, 79705
PHONE: 432-215-6730 FAX/E-MAIL: ckcrain@trccompanies.com
DATA REPORTED TO: Cindy Crain
ADDITIONAL REPORT COPIES TO:

DATE: 3/31/20 PAGE 1 OF 1
PO #: HEP 287297 DHL WORK ORDER #: 2004023
PROJECT LOCATION OR NAME: HEP Millman Station
CLENT PROJECT #: 390408 COLLECTOR: Misti Bryant

Authorize 5% surcharge for TRRP Report? ❑ Yes ❑ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID
SE=SEDIMENT

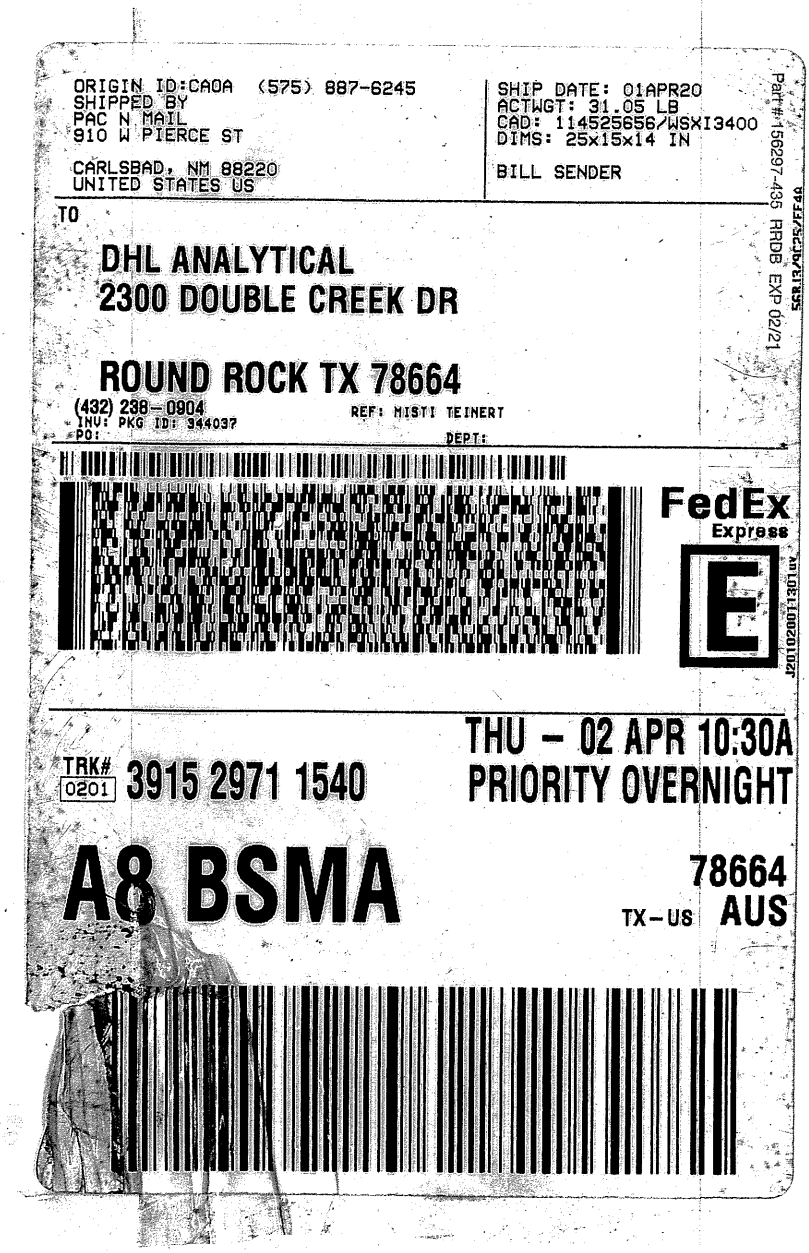
Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ❑ NaOH ❑	ICE	UNPRESERVED	ANALYSES: BTEX ❑ MTBE ❑ (METHOD 8021)	TPH 1005 ❑ TPH 1006 ❑ HOLD 1006 ❑	GRO (METHOD 8015) ❑ DRO (METHOD 8105) ❑	VOC 8260 ❑ VOC 624 ❑ VOC 8260/5035 ❑	SVOC 8270 ❑ PAH 8270 ❑ HOLD PAH ❑ SVOC 625 ❑	8270 PEST ❑ 625 PEST/PCB ❑ 608 PCB ❑ 8270 PCB ❑	8270 O-P PEST ❑ 8082 PCB ❑ 8270 PCB ❑	8321 HERB ❑ T PHOS, AMMONIA ❑	METALS 6020 ❑ METALS 200.8 ❑ DISS. METALS ❑	RCRA ❑ TX11 ❑ ___ ❑	PH ❑ HEX CHROM ❑ ALKALINITY ❑ COD ❑	CHLORIDE ❑ ANIONS ___ ❑	TCLP-SVOC ❑ VOC ❑ PEST ❑ HERB ❑	TCLP-METALS ❑ RCRA 8 ❑ TX-11 ❑ Pb ❑	RCI ❑ FLASHPOINT ❑ DGAS ❑	TDS ❑ TSS ❑ % MOISTURE ❑ CYANIDE ❑	FIELD NOTES
Duplicate	01	3/31/2020	—	S	4oz.	1				X	X										X							Direct bill to HEP
BH-3 @ 13'	02	↓	0920	↓	↓	↓				↓	↓										↓							
BH-3 @ 14'	03		0930																									
BH-1 @ 6'	04		1030																									
BH-1 @ 7'	05	↓	1035	↓	↓	↓				↓	↓										↓							

RELINQUISHED BY: (Signature) Misti Bryant DATE/TIME 4/1/2020 1430 RECEIVED BY: (Signature) FedEX
RELINQUISHED BY: (Signature) FedEX 4-2-2020 DATE/TIME 4/1/2020 0832 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

❑ DHL DISPOSAL @ $5.00 each ❑ Return

TURN AROUND TIME
RUSH ❑ CALL FIRST
1 DAY ❑ CALL FIRST
2 DAY ❑
NORMAL ❑
OTHER ❑ _____

LABORATORY USE ONLY:
RECEIVING TEMP: 0.5 THERM #: 78
CUSTODY SEALS: ❑ BROKEN ❑ INTACT ☒ NOT USED
CARRIER: ❑ LONE STAR ☒ FEDEX ❑ UPS ❑ OTHER
❑ COURIER DELIVERY
❑ HAND DELIVERED



ORIGIN ID:CAOA (575) 887-6245
SHIPPED BY
PAC N MAIL
910 W PIERCE ST

CARLSBAD, NM 88220
UNITED STATES US

SHIP DATE: 01APR20
ACTWGT: 31.05 LB
CAD: 114525656/WSXI3400
DIMS: 25x15x14 IN

BILL SENDER

Part #156297-435 RRDB EXP 02/21

TO

DHL ANALYTICAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664

(432) 238-0904 REF: MISTI TEINERT
INV: PKG ID: 944037
PO: DEPT:

FedEx Express

TRK# 0201 3915 2971 1540

THU - 02 APR 10:30A
PRIORITY OVERNIGHT

A8 BSMA

78664
TX-US AUS

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name TRC Environmental Corp. Date Received: 4/2/2020

Work Order Number 2004023 Received by: JH

Checklist completed by: _____ 4/2/2020 Reviewed by _____ 4/2/2020
Signature | Date | Initials | Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	0.5 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____
Water - ph>9 (S) or ph>10 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____

Any No response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Name: DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: HEP Millman Station	**LRC Date:** 4/13/2020
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 2004023
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	**1)** Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				**R1-01**
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			**R4-02**
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MDL?	X				
		5) For analyte(s) detected in a blank sample, was the concentration, unadjusted for sample specific factors, in all associated field samples, **greater** than 10 times the concentration in the blank sample?			X		
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?			X		
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Name: DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: HEP Millman Station	**LRC Date:** 4/13/2020
Reviewer Name: Angie O'Donnell	**Laboratory Work Order:** 2004023
Prep Batch Number(s): See Prep Dates Report	**Run Batch:** See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?			X		
		2) Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?			X		
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Data Package Signature Page – RG-366/TRRP-13

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;
R2 Sample identification cross-reference;
R3 Test reports (analytical data sheets) for each environmental sample that includes:
  a) Items consistent with NELAC Chapter 5,
  b) dilution factors,
  c) preparation methods,
  d) cleanup methods, and
  e) if required for the project, tentatively identified compounds (TICs).
R4 Surrogate recovery data including:
  a) Calculated recovery (%R), and
  b) The laboratory's surrogate QC limits.
R5 Test reports/summary forms for blank samples;
R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  a) LCS spiking amounts,
  b) Calculated %R for each analyte, and
  c) The laboratory's LCS QC limits.
R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  a) Samples associated with the MS/MSD clearly identified,
  b) MS/MSD spiking amounts,
  c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  d) Calculated %Rs and relative percent differences (RPDs), and
  e) The laboratory's MS/MSD QC limits
R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  a) The amount of analyte measured in the duplicate,
  b) The calculated RPD, and
  c) The laboratory's QC limits for analytical duplicates.
R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix;
R10 Other problems or anomalies.

The Exception Report for each "No" or "Not Reviewed (NR)" item in the Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory is not accredited under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on February 25-28, 2019. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Name: John DuPont
Official Title: General Manager

Signature

04/13/20
Date

Name: Dr. Derhsing Luu
Official Title: Technical Director

DHL Analytical, Inc. **Date:** *13-Apr-20*

CLIENT: TRC Environmental Corp.
Project: HEP Millman Station
Lab Order: 2004023

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method M8015D - DRO/ORO Analysis
Method M8015V - GRO Analysis
Method D2216 - Percent Moisture Analysis

Exception Report R1-01

The samples were received and log-in performed on 4/2/2020. A total of 5 samples were received and analyzed. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For DRO/ORO Analysis, the recovery of surrogate Octacosane for two samples was above the method control limits. These were flagged accordingly in the Analytical Data Report. The remaining surrogate for these samples was within method control limits. No further corrective action was taken.

DHL Analytical, Inc.

Date: *13-Apr-20*

CLIENT: TRC Environmental Corp.
Project: HEP Millman Station
Lab Order: 2004023

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
2004023-01	Duplicate		03/31/20	4/2/2020
2004023-02	BH-3 @ 13'		03/31/20 09:20 AM	4/2/2020
2004023-03	BH-3 @ 14'		03/31/20 09:30 AM	4/2/2020
2004023-04	BH-1 @ 6'		03/31/20 10:30 AM	4/2/2020
2004023-05	BH-1 @ 7'		03/31/20 10:35 AM	4/2/2020

DHL Analytical, Inc.

Lab Order: 2004023
Client: TRC Environmental Corp.
Project: HEP Millman Station

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
2004023-01A	Duplicate	03/31/20	Soil	D2216	Moisture Preparation	04/08/20 04:46 PM	95854
	Duplicate	03/31/20	Soil	SW5030C	Purge and Trap Soils GC- Gas	04/06/20 09:58 AM	95808
	Duplicate	03/31/20	Soil	SW3550C	Soil Prep Sonication: DRO	04/09/20 09:06 AM	95860
2004023-02A	BH-3 @ 13'	03/31/20 09:20 AM	Soil	D2216	Moisture Preparation	04/08/20 04:46 PM	95854
	BH-3 @ 13'	03/31/20 09:20 AM	Soil	SW5030C	Purge and Trap Soils GC- Gas	04/06/20 09:58 AM	95808
	BH-3 @ 13'	03/31/20 09:20 AM	Soil	SW3550C	Soil Prep Sonication: DRO	04/09/20 09:06 AM	95860
2004023-03A	BH-3 @ 14'	03/31/20 09:30 AM	Soil	D2216	Moisture Preparation	04/08/20 04:46 PM	95854
	BH-3 @ 14'	03/31/20 09:30 AM	Soil	SW5030C	Purge and Trap Soils GC- Gas	04/06/20 09:58 AM	95808
	BH-3 @ 14'	03/31/20 09:30 AM	Soil	SW3550C	Soil Prep Sonication: DRO	04/09/20 09:06 AM	95860
2004023-04A	BH-1 @ 6'	03/31/20 10:30 AM	Soil	D2216	Moisture Preparation	04/08/20 04:46 PM	95854
	BH-1 @ 6'	03/31/20 10:30 AM	Soil	SW5030C	Purge and Trap Soils GC- Gas	04/06/20 09:58 AM	95808
	BH-1 @ 6'	03/31/20 10:30 AM	Soil	SW3550C	Soil Prep Sonication: DRO	04/09/20 09:06 AM	95860
2004023-05A	BH-1 @ 7'	03/31/20 10:35 AM	Soil	D2216	Moisture Preparation	04/08/20 04:46 PM	95854
	BH-1 @ 7'	03/31/20 10:35 AM	Soil	SW5030C	Purge and Trap Soils GC- Gas	04/06/20 09:58 AM	95808
	BH-1 @ 7'	03/31/20 10:35 AM	Soil	SW3550C	Soil Prep Sonication: DRO	04/09/20 09:06 AM	95860

Lab Order: 2004023
Client: TRC Environmental Corp.
Project: HEP Millman Station

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
2004023-01A	Duplicate	Soil	D2216	Percent Moisture	95854	1	04/09/20 09:17 AM	PMOIST_200408B
	Duplicate	Soil	M8015D	TPH Extractable by GC - Soil	95860	1	04/10/20 10:45 AM	GC15_200410A
	Duplicate	Soil	M8015V	TPH Purgeable by GC - Soil	95808	20	04/06/20 04:09 PM	GC4_200406A
2004023-02A	BH-3 @ 13'	Soil	D2216	Percent Moisture	95854	1	04/09/20 09:17 AM	PMOIST_200408B
	BH-3 @ 13'	Soil	M8015D	TPH Extractable by GC - Soil	95860	1	04/10/20 10:54 AM	GC15_200410A
	BH-3 @ 13'	Soil	M8015V	TPH Purgeable by GC - Soil	95808	20	04/06/20 06:07 PM	GC4_200406A
2004023-03A	BH-3 @ 14'	Soil	D2216	Percent Moisture	95854	1	04/09/20 09:17 AM	PMOIST_200408B
	BH-3 @ 14'	Soil	M8015D	TPH Extractable by GC - Soil	95860	1	04/10/20 11:03 AM	GC15_200410A
	BH-3 @ 14'	Soil	M8015V	TPH Purgeable by GC - Soil	95808	20	04/06/20 06:31 PM	GC4_200406A
2004023-04A	BH-1 @ 6'	Soil	D2216	Percent Moisture	95854	1	04/09/20 09:17 AM	PMOIST_200408B
	BH-1 @ 6'	Soil	M8015D	TPH Extractable by GC - Soil	95860	10	04/10/20 03:02 PM	GC15_200410A
	BH-1 @ 6'	Soil	M8015V	TPH Purgeable by GC - Soil	95808	20	04/06/20 06:55 PM	GC4_200406A
2004023-05A	BH-1 @ 7'	Soil	D2216	Percent Moisture	95854	1	04/09/20 09:17 AM	PMOIST_200408B
	BH-1 @ 7'	Soil	M8015D	TPH Extractable by GC - Soil	95860	10	04/10/20 03:11 PM	GC15_200410A
	BH-1 @ 7'	Soil	M8015V	TPH Purgeable by GC - Soil	95808	20	04/06/20 07:18 PM	GC4_200406A

DHL Analytical, Inc.

Date: *13-Apr-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	Duplicate
Project:	HEP Millman Station	**Lab ID:**	2004023-01
Project No:	390408	**Collection Date:**	03/31/20
Lab Order:	2004023	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	5.16	3.30	11.0	J	mg/Kg-dry	1	04/10/20 10:45 AM
TPH-ORO >C28-C35	<3.30	3.30	11.0		mg/Kg-dry	1	04/10/20 10:45 AM
Surr: Isopropylbenzene	78.2	0	47-142		%REC	1	04/10/20 10:45 AM
Surr: Octacosane	70.5	0	25-162		%REC	1	04/10/20 10:45 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.25	2.25	4.50		mg/Kg-dry	20	04/06/20 04:09 PM
Surr: Tetrachlorethene	101	0	70-134		%REC	20	04/06/20 04:09 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	13.1	0	0		WT%	1	04/09/20 09:17 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *13-Apr-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	BH-3 @ 13'
Project:	HEP Millman Station	**Lab ID:**	2004023-02
Project No:	390408	**Collection Date:**	03/31/20 09:20 AM
Lab Order:	2004023	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	3.78	3.32	11.1	J	mg/Kg-dry	1	04/10/20 10:54 AM
TPH-ORO >C28-C35	<3.32	3.32	11.1		mg/Kg-dry	1	04/10/20 10:54 AM
Surr: Isopropylbenzene	76.3	0	47-142		%REC	1	04/10/20 10:54 AM
Surr: Octacosane	68.3	0	25-162		%REC	1	04/10/20 10:54 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.24	2.24	4.48		mg/Kg-dry	20	04/06/20 06:07 PM
Surr: Tetrachlorethene	115	0	70-134		%REC	20	04/06/20 06:07 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	11.2	0	0		WT%	1	04/09/20 09:17 AM

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAP certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *13-Apr-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	BH-3 @ 14'
Project:	HEP Millman Station	**Lab ID:**	2004023-03
Project No:	390408	**Collection Date:**	03/31/20 09:30 AM
Lab Order:	2004023	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	3.68	3.46	11.5	J	mg/Kg-dry	1	04/10/20 11:03 AM
TPH-ORO >C28-C35	<3.46	3.46	11.5		mg/Kg-dry	1	04/10/20 11:03 AM
Surr: Isopropylbenzene	59.5	0	47-142		%REC	1	04/10/20 11:03 AM
Surr: Octacosane	70.4	0	25-162		%REC	1	04/10/20 11:03 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.01	2.01	4.02		mg/Kg-dry	20	04/06/20 06:31 PM
Surr: Tetrachlorethene	88.8	0	70-134		%REC	20	04/06/20 06:31 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	14.8	0	0		WT%	1	04/09/20 09:17 AM

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAP certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *13-Apr-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	BH-1 @ 6'
Project:	HEP Millman Station	**Lab ID:**	2004023-04
Project No:	390408	**Collection Date:**	03/31/20 10:30 AM
Lab Order:	2004023	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	722	33.8	113		mg/Kg-dry	10	04/10/20 03:02 PM
TPH-ORO >C28-C35	756	33.8	113		mg/Kg-dry	10	04/10/20 03:02 PM
Surr: Isopropylbenzene	74.9	0	47-142		%REC	10	04/10/20 03:02 PM
Surr: Octacosane	868	0	25-162	S	%REC	10	04/10/20 03:02 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<1.99	1.99	3.98		mg/Kg-dry	20	04/06/20 06:55 PM
Surr: Tetrachlorethene	97.1	0	70-134		%REC	20	04/06/20 06:55 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	15.2	0	0		WT%	1	04/09/20 09:17 AM

Qualifiers:

ND - Not Detected at the SDL
J - Analyte detected between SDL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAP certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SDL - Sample Detection Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc.

Date: *13-Apr-20*

CLIENT:	TRC Environmental Corp.	**Client Sample ID:**	BH-1 @ 7'
Project:	HEP Millman Station	**Lab ID:**	2004023-05
Project No:	390408	**Collection Date:**	03/31/20 10:35 AM
Lab Order:	2004023	**Matrix:**	SOIL

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **BTJ**
TPH-DRO C10-C28	1180	32.9	110		mg/Kg-dry	10	04/10/20 03:11 PM
TPH-ORO >C28-C35	776	32.9	110		mg/Kg-dry	10	04/10/20 03:11 PM
Surr: Isopropylbenzene	82.2	0	47-142		%REC	10	04/10/20 03:11 PM
Surr: Octacosane	776	0	25-162	S	%REC	10	04/10/20 03:11 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **BTJ**
Gasoline Range Organics	<2.31	2.31	4.63		mg/Kg-dry	20	04/06/20 07:18 PM
Surr: Tetrachlorethene	91.2	0	70-134		%REC	20	04/06/20 07:18 PM
PERCENT MOISTURE		**D2216**					Analyst: **RBW**
Percent Moisture	14.3	0	0		WT%	1	04/09/20 09:17 AM

Qualifiers:

- ND - Not Detected at the SDL
- J - Analyte detected between SDL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAP certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SDL - Sample Detection Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical, Inc. **Date:** *13-Apr-20*

CLIENT: TRC Environmental Corp.
Work Order: 2004023
Project: HEP Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_200330A

Sample ID: **DCS-95691** Batch ID: **95691** TestNo: **M8015D** Units: **mg/Kg**
SampType: **DCS** Run ID: **GC15_200330A** Analysis Date: **3/30/2020 11:37:15 AM** Prep Date: **3/27/2020**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	10.1	10.0	15.00	0	67.4	20	400	0	0	
Surr: Isopropylbenzene	6.16		7.500		82.1	47	142	0	0	
Surr: Octacosane	6.03		7.500		80.4	25	162	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	DF	Dilution Factor	
	J	Analyte detected between MDL and RL	MDL	Method Detection Limit	Page 1 of 7
	ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits	
	RL	Reporting Limit	S	Spike Recovery outside control limits	
	J	Analyte detected between SDL and RL	N	Parameter not NELAP certified	

CLIENT: TRC Environmental Corp.
Work Order: 2004023
Project: HEP Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_200410A

The QC data in batch 95860 applies to the following samples: 2004023-01A, 2004023-02A, 2004023-03A, 2004023-04A, 2004023-05A

Sample ID: **MB-95860** Batch ID: **95860** TestNo: **M8015D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC15_200410A** Analysis Date: **4/10/2020 10:09:11 AM** Prep Date: **4/9/2020**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	<3.00	10.0								
TPH-ORO >C28-C35	<3.00	10.0								
Surr: Isopropylbenzene	6.53		7.500		87.1	47	142			
Surr: Octacosane	5.54		7.500		73.9	25	162			

Sample ID: **LCS-95860** Batch ID: **95860** TestNo: **M8015D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC15_200410A** Analysis Date: **4/10/2020 10:18:15 AM** Prep Date: **4/9/2020**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	104	10.0	125.0	0	83.1	50	114			
Surr: Isopropylbenzene	6.55		7.500		87.3	47	142			
Surr: Octacosane	5.35		7.500		71.3	25	162			

Sample ID: **2004023-02AMS** Batch ID: **95860** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC15_200410A** Analysis Date: **4/10/2020 11:12:37 AM** Prep Date: **4/9/2020**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	105	10.9	136.2	3.781	74.0	50	114			
Surr: Isopropylbenzene	6.91		8.175		84.5	47	142			
Surr: Octacosane	5.59		8.175		68.4	25	162			

Sample ID: **2004023-02AMSD** Batch ID: **95860** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC15_200410A** Analysis Date: **4/10/2020 11:21:41 AM** Prep Date: **4/9/2020**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	104	11.0	138.1	3.781	72.6	50	114	0.454	30	
Surr: Isopropylbenzene	6.98		8.287		84.2	47	142	0	0	
Surr: Octacosane	5.59		8.287		67.4	25	162	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 2004023
Project: HEP Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_200410A

Sample ID: **ICV-200410**	Batch ID: **R109965**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC15_200410A**	Analysis Date: **4/10/2020 9:56:17 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	516	10.0	500.0	0	103	80	120			
TPH-ORO >C28-C35	0.0200	10.0	0							
Surr: Isopropylbenzene	28.8		25.00		115	80	120			
Surr: Octacosane	20.6		25.00		82.6	80	120			

Sample ID: **CCV1-200410**	Batch ID: **R109965**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_200410A**	Analysis Date: **4/10/2020 4:13:23 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	214	10.0	250.0	0	85.5	80	120			
TPH-ORO >C28-C35	0.179	10.0	0							
Surr: Isopropylbenzene	13.2		12.50		105	80	120			
Surr: Octacosane	10.1		12.50		80.4	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 2004023
Project: HEP Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_200327A

Sample ID: **DCS-95690** Batch ID: **95690** TestNo: **M8015V** Units: **mg/Kg**
SampType: **DCS** Run ID: **GC4_200327A** Analysis Date: **3/27/2020 12:53:32 PM** Prep Date: **3/27/2020**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	0.189	0.200	0.2000	0	94.6	31	161	0	0	
Surr: Tetrachlorethene	0.470		0.4000		118	70	134	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 2004023
Project: HEP Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_200406A

The QC data in batch 95808 applies to the following samples: 2004023-01A, 2004023-02A, 2004023-03A, 2004023-04A, 2004023-05A

Sample ID: **LCS-95808 MEOH** Batch ID: **95808** TestNo: **M8015V** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC4_200406A** Analysis Date: **4/6/2020 11:33:00 AM** Prep Date: **4/6/2020**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.65	0.200	2.500	0	106	68	126			
Surr: Tetrachlorethene	0.447		0.4000		112	70	134			

Sample ID: **MB-95808 MEOH** Batch ID: **95808** TestNo: **M8015V** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC4_200406A** Analysis Date: **4/6/2020 12:41:52 PM** Prep Date: **4/6/2020**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	<0.100	0.200								
Surr: Tetrachlorethene	0.294		0.4000		73.6	70	134			

Sample ID: **2004023-01AMSD** Batch ID: **95808** TestNo: **M8015V** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC4_200406A** Analysis Date: **4/6/2020 4:57:58 PM** Prep Date: **4/6/2020**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	57.5	4.50	56.27	0	102	68	126	4.66	30	
Surr: Tetrachlorethene	10.8		9.004		120	70	134	0	0	

Sample ID: **2004023-01AMS** Batch ID: **95808** TestNo: **M8015V** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC4_200406A** Analysis Date: **4/6/2020 10:04:31 PM** Prep Date: **4/6/2020**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	60.3	4.50	56.27	0	107	68	126			
Surr: Tetrachlorethene	8.94		9.004		99.3	70	134			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 2004023
Project: HEP Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_200406A

Sample ID: **ICV-200406**	Batch ID: **R109914**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC4_200406A**	Analysis Date: **4/6/2020 11:09:28 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4.79	0.200	5.000	0	95.7	80	120			
Surr: Tetrachlorethene	0.404		0.4000		101	70	134			

Sample ID: **CCV1-200406**	Batch ID: **R109914**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_200406A**	Analysis Date: **4/6/2020 5:21:11 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.44	0.200	2.500	0	97.5	80	120			
Surr: Tetrachlorethene	0.429		0.4000		107	70	134			

Sample ID: **CCV2-200406**	Batch ID: **R109914**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC4_200406A**	Analysis Date: **4/6/2020 10:51:07 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.65	0.200	2.500	0	106	80	120			
Surr: Tetrachlorethene	0.470		0.4000		118	70	134			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

CLIENT: TRC Environmental Corp.
Work Order: 2004023
Project: HEP Millman Station

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_200408B

The QC data in batch 95854 applies to the following samples: 2004023-01A, 2004023-02A, 2004023-03A, 2004023-04A, 2004023-05A

Sample ID: **2003255-06A-DUP** Batch ID: **95854** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_200408B** Analysis Date: **4/9/2020 9:17:00 AM** Prep Date: **4/8/2020**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	80.6	0	0	79.16				1.85	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit	R	RPD outside accepted control limits
RL	Reporting Limit	S	Spike Recovery outside control limits
J	Analyte detected between SDL and RL	N	Parameter not NELAP certified

DHL Analytical, Inc.

Date: *13-Apr-20*

CLIENT: TRC Environmental Corp.
Work Order: 2004023
Project: HEP Millman Station

MQL SUMMARY REPORT

TestNo: M8015D	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
TPH-DRO C10-C28	3.00	10.0
TPH-ORO >C28-C35	3.00	10.0

TestNo: M8015V	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Gasoline Range Organics	0.100	0.200

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP