



Remediation Summary and Site Closure Request

February 23, 2021

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Abo Centurion Station Crude Oil Release NRM2003032458

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1.0 Introduction

TRC Environmental Corporation (TRC), on behalf of Holly Energy Partners – Operating, L.P. (HEP), has prepared this *Remediation Summary and Site Closure Request* for the crude oil release at Abo Centurion Station (Site). The Site is located approximately 9.5 miles southeast of Artesia, in Eddy County, New Mexico at global positioning system (GPS) coordinates of 32.763269, -104.268120. The property surface rights are owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO). Land use in the Site vicinity is primarily oil and gas production activity and cattle grazing. The location of the Release Site is depicted on Figure 1.

2.0 Background

On December 4, 2019, internal corrosion on a pipe resulted in a release of approximately 15 barrels (bbls) of crude oil. Immediately following the release, the area was secured and the pipe was repaired. The released crude oil flowed on the ground approximately 270 feet south/southeast from the release point, crossing numerous piping systems. Immediately following the release, vacuum trucks recovered approximately 3 bbls of free-standing crude oil from the ground. On December 5 and 6, 2019, HEP removed approximately 30 cubic yards (cy) of affected soil from the release point and stockpiled the soil on plastic sheeting pending further waste management activities.

Verbal notification of the release was provided to the New Mexico Oil Conservation Division (NMOCD) on December 4, 2019, and the NMOCD Release Notification and Corrective Action Form (C-141) was submitted on December 18, 2019. The C-141 was approved by the NMOCD on January 29, 2020, and the Site was given a NMOCD Tracking Number of NRM2003032458. Crude oil surface impacts at the Site covered approximately 1,100 square feet. A copy of the final C-141 is included as Appendix A. Photographic documentation is provided in Appendix B. The release point and the surface extent of the crude oil release are depicted on Figure 2.

On December 12, 2019, initial investigation activities were conducted to assess the extent of affected soil associated with the crude oil release. Lateral delineation of affected soil was based on visual observation of the surface extent of the crude oil release. Three test trenches (TT-1 through TT-3) were advanced across the surface extent of the release area utilizing a backhoe to assess the vertical extent of the release. During excavation of trench TT-3, the first two attempts to vertically advance the excavation were terminated at approximately 2 feet below ground surface (bgs) due to a hard caliche layer. The third attempt was completed to a depth of 5 feet bgs, where an unmarked Centurion pipe was encountered and prevented deeper completion of the trench. The results of the December 2019 sampling event indicated that further investigation was required to complete vertical delineation of benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH) at trench TT-3. Additional investigation at this location was performed on March 30, 2020.

On March 30, 2020, a hydro-excavator was initially used to further assess the feasibility of evaluating affected soil at trench TT-3 where the Centurion pipe was encountered. Multiple attempts were made to hydro-excavate soil at the Centurion pipe; however, hydro-excavation could not remove soil to the depth of the Centurion pipe. Using a backhoe, numerous attempts were made to advance another trench (TT-4) within the release footprint in the area immediately adjacent to trench TT-3. Mechanical backhoe refusal was met at approximately 1 foot bgs at each attempted location. After approximately five attempts, a softer surface was found within the release footprint (approximately 10 feet south/southeast of the trench TT-3 location) that allowed for sample collection to a depth of approximately 2.5 feet bgs, where backhoe refusal was encountered due to the hard caliche layer. Vertical delineation at trenches TT-3 and TT-4 was limited by a combination of the Centurion pipe and refusal at the hard caliche layer such that further vertical delineation was not feasible. Figure 2 provides a map of the test trench locations and sample results from December 12, 2019, and March 30, 2020.





On June 4, 2020, a *Site Characterization Report and Remediation Workplan* was submitted to the NMOCD. The report detailed information regarding completion of the test trenches, the results of the initial investigation, and determination of the NMOCD Closure Criteria applicable to the Site. Analytical results of the initial investigation are presented in Table 1. The Remediation Workplan included a proposal that soils with benzene, BTEX, and TPH concentrations above the Closure Criteria would be excavated to the maximum extent practicable considering excavation limitations around the existing pipelines and depth limitations due to the hard caliche layer.

HEP further proposed that an attempt would be made to hydro-excavate affected soils above the Centurion pipe at the trench TT-3 location and in the vicinity of the other underground lines that cross the release area. The area would be excavated until confirmation samples collected from the base and sidewalls of the excavation indicated soil exhibiting benzene, BTEX, and TPH concentrations above NMOCD Closure Criteria had been removed, or until additional mechanical excavation into the hard caliche layer was no longer feasible. Excavated material would be characterized and transported under manifest to a NMOCD approved disposal facility.

The Remediation Workplan proposed that confirmation soil samples would be collected from the base of the excavated areas on the basis of one soil sample per 200 square feet of excavation floor, and sidewall confirmation soil samples would be collected from the excavated areas on a basis of one soil sample per 100 linear feet of sidewall. Each confirmation sample would be analyzed for BTEX by EPA SW-846 Method 8260 and TPH by EPA SW-846 Method 8015M. As laboratory results from the initial investigation reported all chloride concentrations below 600 milligrams per kilogram (mg/kg), confirmation samples would not be analyzed for chlorides.

Additionally, HEP proposed that if confirmation sample results reported concentrations of benzene, BTEX and/or TPH above the Closure Criteria and backhoe refusal had been encountered on the hard caliche layer, areas of concentrations above the Closure Criteria on the hard caliche layer would be sprayed with MicroBlaze® to promote natural attenuation, the excavation would remain open for approximately 30 days, and an additional confirmation sample would be collected. If that sample was not below the Closure Criteria, an additional application of MicroBlaze® would be performed, and the excavation would be backfilled to grade with non-impacted similar material. Following backfilling, the surface would be graded to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

On August 7, 2020, the NMOCD approved the *Site Characterization Report and Remediation Workplan* with the condition that a borehole be installed to vertically delineate affected soil and to determine if the release permeated through the caliche layer into underlying soils.

On December 18, 2020, due to the multiple field events for excavation, MicroBlaze[®] applications, and confirmation sampling, HEP requested an extension of the Closure Report submittal date to March 4, 2021. The date was approved by the NMOCD.

This *Remediation Summary and Site Closure Request* presents information regarding the excavation, MicroBlaze[®] application, confirmation sample collection, soil disposal, and backfill activities conducted to achieve NMOCD closure of the Site.

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 such as distance to the nearest wetland, karst potential, distance to nearest flood-plain, and whether the Site is located within incorporated municipal boundaries or within a defined fresh water field. The evaluation of the applicable NMOCD Closure Criteria was documented in the *Site Characterization Report and Remediation Workplan* dated June 3, 2020. A summary of this evaluation is provided below.



A review of the New Mexico Office of the State Engineer (NMOSE) records indicated one water well is located within 0.5 mile of the Site. As shown on the table below, the recorded depth to groundwater is 50 feet bgs. The location of the water well relative to the Site is depicted on Figure 3.

Well ID	Location from Release Site	Owner	Use	Well Depth and Depth to Water (feet bgs)
RA-03917	0.40 miles to northeast	N/A	N/A	130 feet/50 feet

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 "high 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 4 and 5 depict the FEMA floodplain information and the karst potential data, respectively.

TRC reviewed available information to determine the Closure Criteria for the Site. As the Release Site is within a high karst area, the NMOCD Closure Criteria for the Abo Centurion Station Crude Oil Release are based on the most stringent regulatory guidelines. A summary of the Closure Criteria is provided in the table below.

NMOCD Closure Criteria

		Closure Criteria	a Based on Depth to Grou	undwater (mg/kg)
Constit	tuent of Concern	≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs
Chlo	ride (EPA 300)	600	10,000	20,000
TPH (EPA	GRO + DRO + MRO	100	2,500	2,500
8015M)	GRO + DRO	NA	1,000	1,000
Total BTEX	K (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 Summary of Soil Remediation Activities

4.1 Summary of October 2020 Activities and Soil Sampling

4.1.1 Soil Boring Installation

On October 13, 2020, one soil boring (BH-1) was installed at the northern portion of the release area to vertically delineate affected soil and determine if the release had permeated through the hard caliche layer into underlying soils. Soil boring BH-1 was advanced to a total depth of 30 feet bgs using an air rotary drilling rig provided by Talon, LPE of Amarillo, Texas. Soil samples were collected from the surface and every 5 feet thereafter to the total depth of the boring. Soil samples were placed in laboratory





prepared containers, labeled, immediately placed on ice, and hand delivered to Xenco Laboratories (Xenco) Laboratories of Midland, Texas for analysis of BTEX by EPA SW-846 Method 8260, TPH by EPA SW-846 Method 8015M, and chlorides by EPA Method 300. Table 2 provides a summary of the laboratory results for the soil samples collected from boring BH-1. The soil boring location is shown on Figure 6. A copy of the soil boring log is provided in Appendix C. The laboratory report and chain-of-custody documentation is provided in Appendix D.

Lithology observed in boring BH-1 consisted of medium to coarse grained sand from the surface to a depth of 5 feet bgs. Hard/consolidated caliche was encountered from a depth of 5 to 10 feet bgs, and hard to interlayered gypsum was encountered from a depth of 10 to 30 feet bgs. At a depth of 30 feet bgs, damp, sandy gravel was encountered, and the boring was terminated.

Analytical results for samples collected from the soil boring indicated a maximum TPH concentration of 5,966 mg/kg from the 0-1 foot interval; ethylbenzene and xylenes were detected in this sample but were below the Closure Criteria. Benzene, total BTEX, and TPH concentrations were reported below the test method detection limit in the samples collected from 5 feet bgs to 25 feet bgs. The sample collected at a depth of 30 feet bgs reported a TPH concentration of 151.7 mg/kg, with BTEX concentrations reported below the test method detection limits.

Field observations during drilling of boring BH-1 indicated that soil affected by the HEP Abo Centurion crude oil release was present in the upper 5 feet but was absent immediately below this depth interval. However, from 15 to 30 feet bgs, gray weathered petroleum hydrocarbon staining and weathered hydrocarbon odor were observed for most of this 15 foot interval. Vertical delineation of affected soil from the HEP Abo Centurion release was confirmed within the upper 5 feet at boring BH-1 followed by approximately 10 feet of unaffected soil from 5 to 15 feet bgs, which was in turn underlain by evidence of affected soil from 15 to 30 feet bgs. The affected soil from 15 to 30 feet bgs encountered at boring BH-1 was the result of a historical release in the area not associated with HEP's 2019 Abo Centurion crude oil release.

As the Centurion Pipeline, L.P. Artesia Tank Farm (Centurion Facility) is located immediately west of the release area, TRC reviewed the NMOCD database for historical releases in the area and identified that a release of crude oil was discovered at the Centurion Facility in March 1993 (NMOCD No. 2RP-6). The following summarizes key information on the Centurion Facility release based on reports available in the NMOCD database including *2008 Annual Groundwater Monitoring Report* prepared by Delta Consultants and dated October 22, 2008, and *2017 Annual Groundwater Monitoring Report* prepared by APEX and dated April 2018:

- A crude oil release was discovered in March 1993. An initial assessment performed in August 1993 included the completion of 23 soil borings and identified the presence of light non-aqueous phase liquids (LNAPL) approximately 1,700 feet down to Scoggin Draw (located along the eastern and southern limits of the HEP release area).
- A recovery/interceptor trench was installed and a groundwater remediation system was installed in 1994.
- A total of 14 monitoring wells (MW-1 through MW-14) were initially installed to monitor affected groundwater.
- The remediation system was shut down in 1997 due to the reported absence of LNAPL and decommissioned by the fall of 1998.
- Following decommissioning of the remediation system, monitored natural attenuation (MNA) was performed as the continued response action for affected groundwater.
- Benzene was the only COC to exceed New Mexico Water Quality Control Commission (WQCC) groundwater standards.





- With NMOCD approval, five monitoring wells were plugged and abandoned in 2003 (MW-4, MW-6, MW-7, MW-12, and MW-13), three monitoring wells were plugged and abandoned in 2005 (MW-5, MW-8, and MW-14), and nine monitoring wells were plugged and abandoned in 2013 (MW-1, MW-2, MW-2A, MW-3, MW-3A, MW-3B, MW-9, MW-10, and MW-11).
- Based on 2014 analytical data provided in the 2017 Annual Groundwater Monitoring Report, COCs outside the Centurion Facility were reported below the WQCC groundwater standards, and previous reports indicated the plume was stable and decreasing as a result of biodegradation.
- Additional remediation at the Centurion Facility was deferred until the site was more accessible for residual LNAPL removal, and the NMOCD approved the installation of two downgradient sentinel wells (MW-1 and MW-2) for monitoring purposes.
- Annual monitoring of sentinel wells MW-1 and MW-2 has continued. As of the 2017 Annual Groundwater Monitoring Report, benzene remained below the WQCC groundwater standard in these two wells.

Centurion Facility monitoring wells MW-4 and MW-9 were installed to the east of the HEP Abo Centurion Station as shown on Figure 7. The HEP Abo Centurion Station and boring BH-1 are located between these two wells and the Centurion Facility. Data from the *2008 Annual Groundwater Monitoring Report* indicated that LNAPL was measured in well MW-4 during two events (0.18 feet on December 5, 1998, and 0.02 feet on April 1, 1999). LNAPL was observed in well MW-9 during each event from 1994 to 1998 with a maximum apparent thickness of 0.03 feet on November 17, 1994 and July 6, 1996; LNAPL was last observed in well MW-9 at an apparent thickness of 0.01 feet in March 2002. Groundwater analytical data for wells MW-4 and MW-9 indicated that benzene exceeded the WQCC groundwater standard on several occasions but was below the WQCC groundwater standard during the last one to two monitoring events before they were plugged and abandoned.

The 2008 and 2017 Centurion Facility groundwater monitoring reports document the presence of a LNAPL plume in the vicinity and likely beneath the HEP Abo Centurion Station and boring BH-1. The laboratory and field data from boring BH-1 identified a non-impacted interval from 5 to 15 feet bgs clearly differentiating the HEP Abo Centurion crude oil release impacts at 0 to 5 feet bgs from the Centurion Facility impacts from 15 to 30 feet bgs. Therefore, the observations of weathered petroleum hydrocarbon odor and gray weathered petroleum hydrocarbon staining in HEP's boring BH-1 from a depth of 15-30 feet bgs and the TPH concentration that exceeded Closure Criteria in the soil sample collected from boring BH-1 at a depth of 30 feet bgs are attributed to the historical Centurion Facility release and require no further response by HEP.

Figure 7 shows the location of the HEP Abo Centurion Station, the release point and sample points, the boring BH-1 location, the location of Centurion Facility monitoring wells MW-4 and MW-9, and Scoggin Draw. Site Maps that show the location of Scoggin Draw and Centurion Facility monitoring wells, and select pages of Table 1 from the Centurion Facility *2008 Annual Groundwater Monitoring Report* are included as Appendix E.

4.1.2 Excavation and Analytical Results

On October 13 and 14, 2020, approximately 160 cy of affected soil was excavated from the HEP release area and stockpiled on plastic pending waste characterization and disposal. Soil was excavated from the south end of the release area (CS-1, CS-2, CS-3, CS-4, CSW-1, CSW-2, CSW-3 and CSW-8) until photoionization detector (PID) readings decreased and no hydrocarbon odor or staining was observed. Soil was excavated from the north end of the release area (CS-5, CS-6, CS-7, CSW-4, CSW-5, CSW-6 and CSW-7) until backhoe refusal was encountered on the hard caliche layer. On October 14, 2020, a total of seven five-point composite floor samples (CS-1 through CS-7) were collected from the floor of the excavated area on a 200 square foot (sq. ft.) basis as proposed in the NMOCD-approved Remediation Workplan. Additionally, a total of eight sidewall confirmation soil samples (CSW-1 through CSW-8) and



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one duplicate sample (Duplicate-1 from CSW-1) were collected from the excavated area per 100 linear feet of sidewall.

The soil samples were placed in laboratory-prepared glass containers, immediately placed on ice, and delivered to Xenco for analysis of BTEX by EPA Method 8260 and TPH by EPA Method 8015M. Due to the concentrations of chloride being below the Closure Criteria for the initial investigation samples in 2019, no further analysis for chloride was warranted or performed during remediation. A summary of the analytical results is provided in Table 3. Confirmation soil sample locations and results are depicted on Figure 6. Photographs are provided in Appendix B. The laboratory report and chain-of-custody documentation are provided in Appendix D.

No confirmation samples reported benzene or total BTEX concentrations above the Closure Criteria. All benzene concentrations were reported below the method detection limit. Low level detections of toluene, ethylbenzene and/or xylenes were reported in samples CS-2 (3'), CS-3 (2'), CS-4 (2'), CS-5 (2'), CS-6 (2'), CSW-4, CSW-5 and CSW-8, while BTEX concentrations in all other samples were reported below the method detection limits.

TPH concentrations exceeded the Closure Criteria in the following floor samples:

- CS-2 (3') = 3,367 mg/kg,
- CS-3 (2') = 340 mg/kg,
- CS-4 (2') = 3,157 mg/kg,
- CS-5 (2') = 927.6 mg/kg, and
- CS-6 (2') = 335 mg/kg.

TPH concentrations exceeded the Closure Criteria in the following sidewall samples:

- CSW-4 = 4,165 mg/kg, and
- CSW-8 = 113.1 mg/kg.

As a result of the TPH confirmation sample exceedances indicated above, additional excavation activities were performed on November 20, 2020, as described in Section 4.2 below.

4.2 Summary of November 2020 Activities and Analytical Results

On November 20, 2020, an additional 40 cy of soil was excavated from the southern portion of the release area and confirmation samples were collected from CS-2 (5'), CS-3 (5'), CS-4 (5') and CSW-8 (2.5'). Soil samples were delivered to Xenco for TPH analysis by EPA Method 8015M. The laboratory reported all TPH concentrations below the method detection limit. Excavated soil was added to the stockpile. Table 3 provides a summary of the analytical results. The laboratory report and chain-of-custody documentation are provided in Appendix D.

Per the approved NMOCD Workplan, on November 20, 2020, Microblaze[®] was applied to the northern confirmation sample points CSW-4, CS-5 (2') and CS-6 (2') where TPH concentrations were previously reported above the Closure Criteria but further excavation could not be conducted due to the hard caliche layer. Confirmation samples were scheduled to be collected from these locations in December 2020 as described below in Section 4.3.



4.3 Summary of December 2020 Activities and Analytical Results

On December 7, 2020, 232 cy of stockpiled soil (approximately 30 cy from the initial response, 160 cy from the first excavation event, and 40 cy from the second excavation event) was transported under non-hazardous waste manifests to R360 Halfway Disposal facility (R360). Clean backfill material was transported from a private caliche pit located near Hobbs, New Mexico at GPS coordinates: 32.77775N, -103.063917. A soil sample was collected from the pit on September 30, 2020, and delivered to Xenco for analysis of BTEX by EPA Method 8260C, TPH by EPA Method 8015M, and chlorides by EPA Method 300 to confirm the soil to be used as backfill was non-impacted. The laboratory reported all analyte concentrations were below detection limits. The laboratory report and chain-of-custody documentation are provided in Appendix D. The waste manifests are provided in Appendix E.

On December 21, 2020, final confirmation samples were collected from northern sample points CSW-4a, CS-5a (2') and CS-6a (2') where further excavation could not be conducted due to the hard caliche layer and an additional confirmation sample was inadvertently collected from southern sample point CSW-8a (2.5') where TPH concentrations had previously been reported below the detection limit. All samples were submitted to Xenco for TPH analysis by EPA Method 8015M. TPH concentrations decreased at sample location CSW-4a (from 4,165 mg/kg to 277.7 mg/kg) and CS-6a (2') (from 335 mg/kg to 241 mg/kg) after the Microblaze® application on November 20, 2020. The TPH concentration at sample location CS-5a (2') increased from 927.6 mg/kg to 2,163 mg/kg. TPH concentrations in the three samples on the hard caliche layer remained above the Closure Criteria. Per the approved Remediation Workplan, Microblaze® was applied a second time to these northern sample point areas and all excavated areas were backfilled with the imported clean soil on December 23, 2020.

4.4 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in Work Orders 675147, 675213, 678749 and 682120 generated by Xenco Laboratories in Midland, Texas were 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 are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix D.

5.0 Site Closure Request

Remediation activities were conducted in accordance with NMOCD guidelines and in adherence with the NMOCD-approved Remediation Workplan for this Site. Affected soil with TPH concentrations greater than the NMOCD Closure Criteria were removed to the extent practicable and transported to an appropriate disposal facility. The excavation conducted at the southern portion of the release area achieved confirmation samples with concentrations below the Closure Criteria. At the northern portion of the release area, Microblaze[®] was applied on November 20 and December 21, 2020, to areas where refusal was encountered on the hard caliche layer and confirmation samples exhibited TPH concentrations above the Closure Criteria on October 14 and December 21, 2020. Following the final Microblaze[®] application on December 21, 2020, the excavation was backfilled with similar non-impacted material on December 23, 2020. Based on completion of the remediation activities in accordance with the NMOCD-approved Remediation Workplan, HEP respectfully requests that the NMOCD grant closure to the Abo Centurion Station Crude Oil Release (NRM2003032458).



6.0 Distribution

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Copy 2:	Ryan Mann Hobbs Field Office New Mexico State Land Office 2827 North Del Paso St., Suite 117 Hobbs, NM 88240
Сору 3:	Mark Shemaria Holly Energy Partners – Operating, L.P. 2828 N. Harwood Street, Suite 1300 Dallas, TX 75201
Сору 4:	Arsin Sahba HollyFrontier Corporation 2828 N. Harwood Street, Suite 1300 Dallas, TX 75201

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TABLES

TABLE 1 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FROM INITIAL INVESTIGATION HOLLY ENERGY PARTNERS - OPERATING, L.P. ABO CENTURION STATION CRUDE OIL RELEASE NMOCD TRACKING NO.: NRM2003032458

Sample ID	Sample	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride		
Gample ib	Date	(feet bgs)			milligrams per kilogram (mg/kg)										
NMOCE	Closure C	riteria		-	-	-	100	10	-	-	-	50	600		
TT-1 @ 0-1'	12/12/19	0-1	Excavated*	3,070	4,410	457 J	7,937	0.329	22.9	17.9	66.7	107.829	22.9		
TT-1 @ 7'	12/12/19	7	In-Situ	<2.19	<3.38	<3.38	<3.38	<0.0548	<0.0548	<0.0548	<0.0548	<0.0548	452		
TT-1 @ 10'	12/12/19	10	In-Situ	<2.25	<3.54	<3.54	<3.54	0.0563 J	0.146 J	<0.0563	<0.0563	0.2023	358		
TT-2 @ 0-1'	12/12/19	0-1	Excavated*	7,880	13,400	1,080 J	22,360	31.7	161	61.4	214	468.1	31.0		
TT-2 @ 4'	12/12/19	4	In-Situ	<2.14	<3.14	<3.14	<3.14	<0.0535	<0.0535	<0.0535	<0.0535	<0.0535	10.3		
Dup-1	12/12/19	4	In-Situ	4.05 J	<3.30	<3.30	4.05 J	<0.0511	<0.0511	<0.0511	<0.0511	<0.0511	5.37		
TT-2 @ 7'	12/12/19	7	In-Situ	<2.22	11.6	<3.31	11.6	<0.0556	<0.0556	<0.0556	<0.0556	<0.0556	27.8		
TT-3 @ 0-1'	12/12/19	0-1	Excavated*	9,670	23,100	4,230	37,000	40.0	205	81.8	267	593.8	41.1		
TT-3 @ 3'	12/12/19	3	In-Situ	21,200	20,700	1,490	43,390	163	535	163	481	1,342	21.2		
TT-3 @ 5'	12/12/19	5	In-Situ	6,630	8,190	617 J	15,437	24.5	672	187	794	1,677.5	30.6		
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TT-4 Surface	03/30/20	0-0.5	Excavated*	168	23,000	4,150	27,318	0.0278	0.290	0.137	0.522	0.9768	NA		
Duplicate	03/30/20	0-0.5	Excavated*	104	24,000	6,880	30,984	0.0329	0.319	0.151	0.556	1.0589	NA		
TT-4 @ 1'	03/30/20	1	Excavated*	2,230	7,810	369 J	10,409	0.0966	3.86	4.99	18.6	27.5466	NA		
TT-4 @ 2'	03/30/20	2	In-Situ	33.1	84.5	13.7	131.3	<0.00120	0.00873	0.00623	0.0233	0.03826	NA		
TT-4 @ 30"R	03/30/20	2.5	In-Situ	7.08	103	11.7	121.78	<0.00109	0.00235	0.00555	0.0373	0.0452	NA		
			•			•			•	•	•				

Notes:

1. GRO: Gasoline Range Organics

2. DRO: Diesel Range Organics

3. MRO: Motor Oil Range Organics

4. -: No NMOCD Closure Criteria established.

5. Bold and highlighting indicates the COC was detected above the NMOCD Closure Criteria.

 ${\rm 6. < indicates the COC}$ was below the appropriate laboratory method/sample detection limit

7. J flag indicates analyte was detected between the reporting limit and sample detection limit.

8. Dup-1 was collected from the same location as TT-2 @ 4'

9. Duplicate was collected from the same location as TT-4 Surface

10. NA: not analyzed

11. Excavated*: Excavated during remediation activities in October and November, 2020.

TABLE 2 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FROM SOIL BORING HOLLY ENERGY PARTNERS - OPERATING, L.P. ABO CENTURION STATION CRUDE OIL RELEASE NMOCD TRACKING NO.: NRM2003032458

Sample ID	Sample	Sample Depth	Soil Status	TPH TPH TPH Total TPH Benzene Tolue (GRO) (DRO) (MRO) Total TPH Benzene Tolue		Toluene	Ethylbenzene	Total Xylenes	Total BTEX					
oumpiend	Date	(feet bgs)		milligrams per kilogram (mg/kg)										
NMOCD Closu	re Criteria			-	-	-	100	10	-	-	-	50		
BH-1 (0-1')	10/13/20	0-1	Excavated	113	5,600	253	5,966	<0.0249	<0.124	0.0502	0.504	0.5542		
BH-1 (5')	10/13/20	5	In-Situ	<50.0	<50.0	<50.0	<50	<0.000996	<0.00498	<0.000996	<0.000996	<0.000996		
Duplicate-1 (BH-1 [5'])	10/13/20	5	In-Situ	<50.0	<50.0	<50.0	<50	<0.000996	<0.00498	<0.000996	<0.000996	<0.000996		
BH-1 (10')	10/13/20	10	In-Situ	<50.0	<50.0	<50.0	<50	<0.0253	<0.126	<0.0253	<0.0253	<0.0253		
BH-1 (15')	10/13/20	15	In-Situ	<49.9	<49.9	<49.9	<49.9	<0.0252	<0.126	<0.0252	<0.0252	<0.0252		
BH-1 (20')	10/13/20	20	In-Situ	<49.9	<49.9	<49.9	<49.9	<0.0249	<0.124	<0.0249	<0.0249	<0.0249		
BH-1 (25')	10/13/20	25	In-Situ	<49.8	<49.8	<49.8	<49.8	<0.0251	<0.125	<0.0251	<0.0251	<0.0251		
BH-1 (30')	10/13/20	30	In-Situ	61.1	90.6	<50.0	151.7	<0.000990	<0.00495	<0.000990	<0.00099	<0.00099		

Notes:

1. GRO: Gasoline Range Organics

2. DRO: Diesel Range Organics

3. MRO: Motor Oil Range Organics

4. -: No NMOCD Closure Criteria established.

5. Bold indicates the COC was detected above the test method detection limit.

6. Bold and highlighting indicates the COC was detected above the NMOCD Closure Criteria.

7. < indicates the COC was below the appropriate laboratory method/sample detection limit

8. Duplicate-1 was collected from the same location as BH-1 (5')

10. NA: not analyzed

TABLE 3 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS FROM EXCAVATION HOLLY ENERGY PARTNERS - OPERATING, L.P. ABO CENTURION STATION CRUDE OIL RELEASE NMOCD TRACKING NO.: NRM2003032458

Sample ID	Sample	Sample Depth	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
Gampie ib	Date	(feet bgs)						milligrams pe	er kilogram (mg/	kg)		
NMOCD Close	ure Criteri	a		-	-	-	100	10	-	-	-	50
Confirmation Floor Sar	nples									•		
CS-1 (8')	10/14/20	8	In-Situ	<50.0	80.8	<50.0	80.8	<0.000992	<0.00496	<0.000992	<0.000992	<0.000992
CS-2 (3')	10/14/20	3	Excavated	162	3,070	135	3,367	<0.00100	0.0190	0.00745	0.0749	0.10135
CS-2 (5')	11/20/20	5	In-Situ	<50.0	<50.0	<50.0	<50					
CS-3 (2')	10/14/20	2	Excavated	<50.0	340	<50.0	340	<0.000992	<0.00496	<0.000992	0.00438	0.00438
CS-3 (5')	11/20/20	5	In-Situ	<49.8	<49.8	<49.8	<49.8					
CS-4 (2')	10/14/20	2	Excavated	<50.0	2,880	277	3,157	<0.00100	<0.00500	0.00199	0.00911	0.0111
CS-4 (5')	11/20/20	5	In-Situ	<49.9	<49.9	<49.9	<49.9					
CS-5 (2')	10/14/20	2	Excavated	95.1	777	55.5	927.6	<0.000994	0.00817	0.00489	0.0671	0.08016
CS-5a (2')	12/21/20	2	In-Situ	<50.0	1,970	193	2,163					
CS-6 (2')	10/14/20	2	Excavated	<50.0	335	<50.0	335	<0.000992	<0.00496	0.00246	0.0143	0.01676
CS-6a (2')	12/21/20	2	In-Situ	<49.8	241	<49.8	241					
CS-7 (2')	10/14/20	2	In-Situ	<49.8	<49.8	<49.8	<49.8	<0.00101	<0.00504	<0.00101	<0.00101	<0.00101
Confirmation Sidewall	Samples									•		
CSW-1	10/14/20	1	In-Situ	<50.0	<50.0	<50.0	<50	<0.000996	<0.00498	<0.000996	<0.000996	<0.000996
Duplicate-1 (CSW-1)	10/14/20	1	In-Situ	<49.9	<49.9	<49.9	<49.9	<0.00100	<0.00502	<0.00100	<0.001	<0.001
CSW-2	10/14/20	1.5	In-Situ	<49.9	<49.9	<49.9	<49.9	<0.00100	<0.00502	<0.00100	<0.001	<0.001
CSW-3	10/14/20	4	In-Situ	<50.0	65.5	<50.0	65.5	<0.000998	<0.00499	<0.000998	<0.000998	<0.000998
CSW-4	10/14/20	1	Excavated	418	3,520	227	4,165	<0.00100	<0.00500	0.00315	0.00471	0.00786
CSW-4a	12/21/20	1	In-Situ	<49.9	222	55.7	277.7					
CSW-5	10/14/20	1	In-Situ	<49.9	<49.9	<49.9	<49.9	<0.00100	<0.00500	0.00413	0.02064	0.02477
CSW-6	10/14/20	1	In-Situ	<49.8	<49.8	<49.8	<49.8	<0.00100	<0.00500	<0.00100	<0.001	<0.001
CSW-7	10/14/20	1	In-Situ	<50.0	56.7	<50.0	56.7	<0.000994	<0.00497	<0.000994	<0.000994	<0.000994
CSW-8	10/14/20	1	Excavated	56.2	56.9	<50.0	113.1	<0.00100	<0.00502	0.00482	0.0362	0.04102
CSW-8 (2.5')	11/20/20	2.5	In-Situ	<50.0	<50.0	<50.0	<50					
CSW-8a (2.5')	12/21/20	2.5	In-Situ	<49.9	<49.9	<49.9	<49.9					

Notes:

1. GRO: Gasoline Range Organics

2. DRO: Diesel Range Organics

3. MRO: Motor Oil Range Organics

4. -: No data collected.

5. Bold indicates the COC was detected above the test method detection limit.

6. Bold and highlighting indicates the COC was detected above the NMOCD Closure Criteria.

7. < indicates the COC was below the appropriate laboratory method/sample detection limit

8. Duplicate-1 was collected from the same location as CSW-1.



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FIGURES



S:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\390412_Abo_Centurion_Release_2020\mxdl420669_1_slm.mxd -- Saved By: SRAY on 2/19/2021, 13:07:09 PM

IRC - GIS	Sample ID TT-3 @ 0-1' TT-3 @ 3'	40.0 163	593.8 3 1,342 4	tal TPH Chlorid 37,000 41.1 13,390 21.2		8				Rept.			日本の	の一部での	いたちの	「「「「「「」」」
Map Rotation: 0	TT-3 @ 5' Sample ID TT-4 Surface Duplicate TT-4 @ 1' TT-4 @ 2' TT-4 @ 30"R	24.5 Benzene 0.0278 0.0329 0.0966 <0.00120 <0.00109	Total BTEX Tot 0.9768 2' 1.0589 30 27.5466 10 0.03826 1	15,437 30.6 tal TPH Chlorid (7,318 - (9,984 - 0,409 - 131.3 - 21.78 -								Sample ID TT-2 @ 0-1' TT-2 @ 4' Dup-1 TT-2 @ 7'	Benzene 31.7 <0.0535 <0.0511 <0.0556	Total BTEX 468.1 <0.0535 <0.0511 <0.0556	Total TPH 22,360 <3.14 4.05 11.6	Chloride 31.0 10.3 5.37 27.8
Release_2020\mxd\Archive\390412_2_V3.mxd			Sampl TT-1 @ TT-1 0	© 0-1' 0.329 @ 7' <0.054	107.829 18 <0.0548	Total TPH 7,937 <3.38	Chloride 22.9 452 259 259				いたのである					の一方の
/_ENERGY_PARTNERS\390412_Abo_Centurion_F	 ich Locations xtent of Surface Re	elease	Release Point	*	NOTES: 1. Bold a 2. < indic 3. Dup-1 4. Duplic	nd highlighting ates the COC was collected ate was collec	was below the from the same cted from the sa	COC was detec appropriate lab location as TT- ame location as TT-2 and TT-3 (oratory method ·2 @ 4'. TT-4 Surface.	MOCD Cleanup /sample detection	o Standards. on limit.		I	PROJE	ABO CENTU EI	ERGY PARTNE IRION STATIO DDY COUNTY, PLE ANALYT TEST TRE

4. Duplicate was collected from the same location as TT-4 Surface. 5. Samples were collected from TT-1, TT-2 and TT-3 on December 12, 2019.

6. Samples were collected from TT-4 on March 30, 2020.

GIS IRC

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

NMOCD Closure Criteria

Pipeline Continues In Both Directions —— Centurion Facility Fenceline

Pipeline Terminates On The Western End and Continues On The Eastern End

Benzene Total BTEX Total TPH Chloride

10 mg/kg 50 mg/kg 100 mg/kg 600 mg/kg

	CENTURION ST	RTNERS - OPERATING, L.F ATION CRUDE OIL RELEAS NTY, NEW MEXICO	
	TEST	ALYTICAL RESULTS MA TRENCHES 119 AND MARCH 30, 202	
DRAWN BY:	S. RAY	PROJ. NO.:	39041
CHECKED BY:	JES		
APPROVED BY:	JES	FIGURE 2	
DATE:	FEBRUARY 2021		
		505 East Huntland Drive, S	uite 250

70 Fee 1"=35' 1:420 **TRC**

35

Austin, TX 78752 Phone: 512.329.6080 www.trcsolutions.com

390412_2_V3.mxd





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1	Sample ID Da	te Depth Total TPH Benzene	Total BTEX	CSW-6		100		Control of		ALC: N	
100	CSW-6 10/14/		<0.001	5 -7 (2)	ample ID	Date	Depth Tot	tal TPH	Benzene	Total BTEX	
315		See.			-	10/14/2020		<49.8	<0.00101	<0.00101	34.14
100						ample ID	Date	Donth	Total TPH	Benzene	– Total BTEX
100	•	•		BHH	and the second sec	CSW-5	10/14/2020	-	<49.9	<0.00100	0.02477
	CS-6a (2') 12/21/2020	2 241	-	CS-6a(2)	*	1.00	11/67	1	100	1000	100-
			TT4	4			Reality	4-2	Maria Si	15+1	12 1911
1	Sample ID Da	ate Depth Total TPH Benzene				ample ID	Date	Depth		Benzene	Total BTEX
164	-	/2020 2 2,163		CSW-7 CS-53		CSW-7	10/14/2020		56.7	<0.000994	<0.000994
	Sample ID CSW-4a	And D C	Depth Total TPH 5 <49.9 Depth Total TPH 020 2.5	Benzene Tota 1 PH Benzene 1 1 0 1 <5		00996 <0.0	CS-3 (5))		Sample II CS-3 (5') W-2 2((5') SW-1 CS-1 (8') CSW-3 TT-1	11/20/202 Sample ID CSW-2 Sample CS-2 (5) Sample Sample Sample Sample Sample Sample	Date 10/14/202 ID Date 11/20/20 11/20/2
•	Release Point Soil Boring Location Confirmation Floor Sample Confirmation Sidewall Samp Test Trench Locations	 Pipeline Continues In Both Pipeline Terminates On The End and Continues On The End Centurion Facility Fencelin HEP Abo Centurion Station Fenceline 	e Western Eastern e	2. Bold and h 3. < indicates 4. mg/kg milli	ates the COC w highlighting indiv s the COC was igrams per kilog e in feet below g	cates the COC below the app gram ground surface	was detected ropriate laborat	above the ory metho	NMOCD Closu d/sample detec	re Criteria.	
		Lateral Extent of Surface R and Excavation Limits	elease	NMOC	CD Closure C		00 mg/kg 10				

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

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



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US)

Coor

52



Lateral Extent of Surface Release

and Excavation Limits

End and Continues On The Eastern

Groundwater Flow Direction

End

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

Confirmation Floor Sample

Confirmation Sidewall Sample

MW-9 Maximum Apparent LNAPL Thickness = 0.03' (11/17/94 and 7/6/96)

HOLLY ENERGY PARTNERS - OPERATING, L.P. ABO CENTURION STATION CRUDE OIL RELEASE EDDY COUNTY, NEW MEXICO SITE MAP WITH HISTORICAL Ν MONITOR WELL LOCATIONS S. RAY PROJ. NO.: AWN BY: 4220669 M. HORN HECKED BY: ROVED BY C. CRAIN **FIGURE 7** FEBRUARY 2021 505 East Huntland Drive, Suite 250 Austin, TX 78752 Phone: 512.329.6080 www.trcsolutions.com TRC 1 " = 50 ' 1:600

420669_7.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	NRM2003032458
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Holly Energy Partners	OGRID 282505	
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 88	3210	

Location of Release Source

Latitude <u>32.76337442</u> (NAD 83 in decimal degrees to 5 decimal places)	Longitude <u>-104.26801562</u>	
Site Name Abo Centurion Station	Site Type Shipping Receiving Station	
Date Release Discovered 12/4/2019	API# (if applicable)	_

Unit Letter	Section	Township	Range	County
	10	18S	27E	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)

Volume Released (bbls) Approximately 15	Volume Recovered (bbls) 3
Volume Released (bbls)	Volume Recovered (bbls)
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Volume Released (bbls)	Volume Recovered (bbls)
Volume Released (Mcf)	Volume Recovered (Mcf)
Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
	Volume Released (bbls) Is the concentration of dissolved chloride in the produced water >10,000 mg/l? Volume Released (bbls) Volume Released (Mcf)

Cause of Release

Due to internal corrosion on the pipeline 15 bbls of crude oil was released to surrounding area.

Page 24 of 162

Page 1 of 2

Received by OCD: 12/18/2019 11:08:06 AM

Page 2 of 2

Form C-141	State of New Mexico	Incident ID	NRM2003032458
Page 2	Oil Conservation Division	District RP	INKIVI2005052458
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party	consider this a major release?	

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? N/A

Initial Response

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

 \boxtimes The source of the release has been stopped.

In 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: Melance Dolar	Date: <u>12/18/2019</u>
email: Melanie.Nolan@hollyenergy.com	Telephone: <u>214-605-8303</u>
OCD Only	
Received by:	Date:

by OCD: 6/4/2020 11:46:11 AM State of New Mexico

Oil Conservation Division

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 b	by the release? .ccording to OCD records, depth to water at	>	<u>100_</u> (ft bgs)
	his site is 49' bgs CE		Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously fl watercourse?	owing watercourse or any other significant	<u> </u>	Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sink ordinary high-water mark)?	chole, or playa lake (measured from the	1 1	Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied perm or church?	nanent residence, school, hospital, institution,	י ם	Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a sprir by less than five households for domestic or stock watering purposes?	ng or a private domestic fresh water well used	י ם	Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh	water well or spring?	03	Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boun water well field?	idaries or within a defined municipal fresh	נ 🗆	Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?		י 🗆	Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?		ו 🗆	Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as k	carst geology? CE	۲ 🔀	Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?		ז 🗆	Yes 🛛 No
Did the release impact areas not on an exploration, development, produc	ction, or storage site?	<u>с</u> у	res 🛛 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.

 \square Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data

- \boxtimes Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ^{1/2}-mile of the lateral extents of the release
- Boring or excavation logs
- \boxtimes Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 2/23/2021 11:07:42 AM

	State of New Mexico	Incident ID	Page 23 NRM2003032458
Page 4	Oil Conservation Division	District RP	
		Facility ID	
		Application ID	
regulations all operators are	prmation given above is true and complete to the best of my required to report and/or file certain release notifications a	knowledge and understand that purs and perform corrective actions for reli	suant to OCD rules and eases which may endanger

Printed Name: Melanie Nolan Title:	Environmental Specialist	
Signature: Malane Nolan	Date: 5/21/2020	
email: Melanie.Nolan@hollyenergy.com	Telephone: 214-605-8303	
OCD Only		
Received by: Cristina Eads	Date: 06/04/2020	

Received by OCD: 2/23/2021 11:07:42 AM

Detailed description of proposed remediation technique

Page 5

Oil Conservation Division

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

10	010	24	~	£	1	1	7
11	- F	24					1

Incident ID	NRM2003032458
District RP	
Facility ID	
Application ID	

Remediation Plan

Scaled sitemap with GPS coordinates showing delineation points \boxtimes \boxtimes Estimated volume of material to be remediated \boxtimes 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** Date: 5/21/2020 Danco Signature: Melanie.Nolan@hollyenergy.com email: Telephone: 214-605-8303 **OCD** Only Received by: Cristina Eads 06/04/2020 Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved 08/07/2020 Signature: Date:

eceived by OCD: 2/23/20	21 11:07:42 AM			Page 29 of		
Form C-141	State of New Mexico	•	Incident ID	NRM2003032458		
Page 6	Oil Conservation Divisi	on	District RP	INIXIVI2003032438		
			Facility ID			
			Application ID			
	C	losure				
or directives of the OCD. including a scaled site ma	ist attach information demonstrating they This demonstration should be in the form p, sampling diagrams, relevant field notes nts of final sampling, and a narrative of th	of a comprehensive repor photographs of any excav	t (electronic submittals vation prior to backfilli	s in .pdf format are preferred) ing, laboratory data including		
Closure Report Attach	ment Checklist: Each of the following	items must be included in	n the closure report.			
X A scaled site and sa	mpling diagram as described in 19.15.29.	11 NMAC				
\overline{X} Photographs of the must be notified 2 days	Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)					
X Laboratory analyses	of final sampling (Note: appropriate OD	C District office must be	notified 2 days prior to	o final sampling)		
X Description of reme	diation activities			a		
and regulations all operat may endanger public heal should their operations ha human health or the envir compliance with any other restore, reclaim, and re-ve	formation given above is true and completors are required to report and/or file certa th or the environment. The acceptance of ve failed to adequately investigate and re onment. In addition, OCD acceptance of r federal, state, or local laws and/or regul egetate the impacted surface area to the co .13 NMAC including notification to the C	in release notifications and f a C-141 report by the OC mediate contamination the a C-141 report does not r ations. The responsible p onditions that existed prior	d perform corrective a CD does not relieve th at pose a threat to grou elieve the operator of arty acknowledges the r to the release or their	ctions for releases which e operator of liability undwater, surface water, responsibility for ey must substantially r final land use in		
Printed Name: M	lelanie Nolan	Title: Envire	onmental Specialist			
Signature: MIR	arie Doloro	Date: 2 - 23 -	2021			
email:Melanie.No	olan@hollyenergy.com	Telephone: 214-6	05-8303			
OCD Only						
Received by: Cristin	na Eads	Date: 02-23	-2021			

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

Date: 06-28-2021 Closure Approved by: W Printed Name: Cristina Eads **Environmental Specialist** Title:



Appendix B: Photographic Documentation














Appendix C: Soil Boring Log

Client: HEP			LOG BH-1	TDC Project #: 420000
	n Station			TRC Project #: 420669 Start Date: 10/13/2020
Site: Abo Centurio				Finish Date: 10/13/2020
Address: Eddy Cou	-			
Project: Site Asses				Permit #: Not Applicable TRC Site Rep.: Tania Babu
Drilling Company:T Drilling Method: Air		U	rilling Crew: D. Londagin & crew	TRC Reviewer: Cynthia Crain
Boring Diameter (in		B	oring Depth (ft bgs): 30	
Sampling Method: \$	<u>,</u>	·ط	oning Depth (it bgs). 30	Coord. Sys.: WGS 84 Longitude: 104°16'05.0"W
Blow Count Method		le G	rout: Bentonite	Latitude: 32°45'47.0"N
Field Screening Pa				Elevation Datum: Not Applicable
Meter: MiniRAE 30			Units: ppm	Ground Elevation (ft): Not Measured
	ample		Onito. ppm	Ground Elevation (it). Not measured
Depth (ft) Interval Recovery	Analytical Field Screening	Lithology	Lithologic D	escription
-0			SW: Medium to coarse sand, well graded, ta	an, loose, with gravel, dry, light hydrocarbon odor,
			no staining.	
	609			
		•••••		
-5		·····	Caliche: Fine to medium, hard, white, consc	lidated, dry, no hydrocarbon odor, no staining.
	59			
- 10			Gypsum: Hard tan-white consolidated inte	rlayered with brown sand, dry, no hydrocarbon
			odor, no staining.	
	400			
- 15				
			Gypsum: Hard, tan-white, consolidated, inte hydrocarbon odor, gray weathered hydrocar	rlayered with gray stained sand, dry, no bon staining.
	50			
- 20				
				rlayered with brown and gray stained medium- ng weathered hydrocarbon odor, gray weathered
	040		hydrocarbon staining.	
	240			
- 25				te, consolidated, with gravel, dry, no hydrocarbon
- 25			odor, no staining.	
- 25	45		Gynsum: Hard gray consolidated interlays	red with gray stained gravel and coarse sand,
- 25		Y//////	damp. strong weathered hydrocarbon odor.	gray weathered hydrocarbon staining.
			1, 5 ,	
- 30			TOTAL DEPTH OF	SOIL BORING

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Appendix D: Laboratory Analytical Reports

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Project Id:

Project Location:

Contact:

Environment Testing Xenco

Cindy Crain

Certificate of Analysis Summary 674005

TRC Solutions, Inc, Midland, TX

Project Name: Lovington Bootser Station Release

 Date Received in Lab:
 Wed 09.30.2020 16:38

 Report Date:
 10.16.2020 13:56

 Project Manager:
 Jessica Kramer

Page 40 of 162

Lab Id: 674005-001 Field Id: Backfill Analysis Requested Depth: Matrix: SOIL Sampled: 09.30.2020 11:00 BTEX by SW 8260C 10.02.2020 21:00 Extracted: SUB: T104704215-20-38 Analyzed: 10.03.2020 02:43 RL Units/RL: mg/kg $<\!0.00101$ 0.00101 Benzene 0.00503 Toluene < 0.00503 < 0.00101 0.00101 Ethylbenzene < 0.00201 0.00201 m,p-Xylenes o-Xylene < 0.00101 0.00101 0.00101 $<\!0.00101$ Total Xylenes Total BTEX < 0.00101 0.00101 Chloride by EPA 300 Extracted: 10.08.2020 14:05 Analyzed: 10.08.2020 17:35 Units/RL: RL mg/kg Chloride 142 5.05 TPH by SW8015 Mod Extracted: 10.01.2020 11:15 Analyzed: 10.01.2020 21:01 Units/RL: mg/kg RL Gasoline Range Hydrocarbons (GRO) <49.9 49.9 Diesel Range Organics (DRO) <49.9 49.9 Motor Oil Range Hydrocarbons (MRO) <49.9 49.9 Total TPH <49.9 49.9

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession VRAMER

674005

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eurofins Environment Testing Xenco

Analytical Report 674005

for

TRC Solutions, Inc

Project Manager: Cindy Crain

Lovington Bootser Station Release

10.16.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

10.16.2020 Project Manager: **Cindy Crain TRC Solutions, Inc** 2057 Commerce

Reference: Eurofins Xenco, LLC Report No(s): 674005 Lovington Bootser Station Release Project Address:

Cindy Crain:

Midland, TX 79703

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 674005. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 674005 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Environment Testing Xenco

Sample Id

Backfill

TRC Solutions, Inc, Midland, TX

Lovington Bootser Station Release

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	09.30.2020 11:00		674005-001

eurofins Environment Testing Xenco

CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Lovington Bootser Station Release

Project ID: Work Order Number(s): 674005
 Report Date:
 10.16.2020

 Date Received:
 09.30.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3138901 BTEX by SW 8260C

Lab Sample ID 674005-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Ethylbenzene, Toluene, m,p-Xylenes recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 674005-001.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

TRC Solutions, Inc, Midland, TX

Lovington Bootser Station Release

Sample Id: Backfill Lab Sample Id: 674005-001		Matrix: Date Co	Soil ollected: 09.30	.2020 11:00		Date Received:09.3	0.2020 16	:38
Analytical Method: Chloride by EP Tech: CHE Analyst: CHE	A 300		10.02	.2020 14:05		Prep Method: E30 % Moisture:	0P	
Seq Number: 3139221		Date Pro	ep: 10.08	.2020 14:03		Basis: Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	142	5.05		mg/kg	10.08.2020 17:35		1
Analytical Method: TPH by SW801 Tech: DVM Analyst: ARM Seq Number: 3138683	15 Mod	Date Pro	ep: 10.01	.2020 11:15		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Tech: DVM Analyst: ARM	15 Mod Cas Number	Date Pro Result	ep: 10.01 RL	.2020 11:15	Units	% Moisture:		Dil
Tech: DVM Analyst: ARM Seq Number: 3138683			I	.2020 11:15		% Moisture: Basis: Wet	Weight	Dil
Tech: DVM Analyst: ARM Seq Number: 3138683 Parameter	Cas Number	Result	RL	.2020 11:15	Units	% Moisture: Basis: Wet Analysis Date	Weight Flag	
Tech: DVM Analyst: ARM Seq Number: 3138683 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result <49.9	RL 49.9	.2020 11:15	Units mg/kg	% Moisture: Basis: Wet Analysis Date 10.01.2020 21:01	Weight Flag U	1
Tech: DVM Analyst: ARM Seq Number: 3138683 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result <49.9 <49.9	RL 49.9 49.9	.2020 11:15	Units mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 10.01.2020 21:01 10.01.2020 21:01	Weight Flag U U	1 1
Tech: DVM Analyst: ARM Seq Number: 3138683 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9	.2020 11:15 Units	Units mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 10.01.2020 21:01 10.01.2020 21:01 10.01.2020 21:01 10.01.2020 21:01	Weight Flag U U U	1 1 1
Tech: DVM Analyst: ARM Seq Number: 3138683 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 C	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9	RL 49.9 49.9 49.9 49.9 49.9		Units mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wet Analysis Date 10.01.2020 21:01 10.01.2020 21:01 10.01.2020 21:01 10.01.2020 21:01 10.01.2020 21:01	Weight Flag U U U U Flag	1 1 1

Certificate of Analytical Results 674005

TRC Solutions, Inc, Midland, TX

Lovington Bootser Station Release

Sample Id: Backfill		Matrix	: Soil		Date Received:09.3	0.2020 16	:38	
Lab Sample Id: 674005-001		Date C	ollected: 09.30.2020 1	1:00				
Analytical Method: BTEX by	SW 8260C				Prep Method: SW:	5035A		
Tech: NAL								
Analyst: NAL		Date P	rep: 10.02.2020 2	1:00	% Moisture:			
Seq Number: 3138901					Basis: Wet SUB: T104704215-	Weight -20-38		
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Benzene	71-43-2	< 0.00101	0.00101	mg/kg	10.03.2020 02:43	U	1	
Toluene	108-88-3	< 0.00503	0.00503	mg/kg	10.03.2020 02:43	UX	1	
Ethylbenzene	100-41-4	< 0.00101	0.00101	mg/kg	10.03.2020 02:43	UX	1	
m,p-Xylenes	179601-23-1	< 0.00201	0.00201	mg/kg	10.03.2020 02:43	UX	1	
o-Xylene	95-47-6	< 0.00101	0.00101	mg/kg	10.03.2020 02:43	UX	1	
Total Xylenes	1330-20-7	< 0.00101	0.00101	mg/kg	10.03.2020 02:43	U	1	
Total BTEX		< 0.00101	0.00101	mg/kg	10.03.2020 02:43	U	1	
Surrogate	С	as Number	% Recovery Units	s Limit	s Analysis Date	Flag		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	109	%	53-142	10.03.2020 02:43	
1,2-Dichloroethane-D4	17060-07-0	102	%	53-150	10.03.2020 02:43	
Toluene-D8	2037-26-5	92	%	70-130	10.03.2020 02:43	

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Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sam	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 674005

TRC Solutions, Inc

Lovington Bootser Station Release

Analytical Method: Seq Number: MB Sample Id:	Chloride by E 3139221 7712878-1-BL		00		Matrix: nple Id:	Solid 7712878-1	I-BKS			ep Metho Date Pro D Sample	ep: 10.0	0P)8.2020 2878-1-BSD	
Parameter	р	MB	Spike	LCS Bogult	LCS	LCSD	LCSD	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		esult <5.00	Amount 250	Result 268	%Rec 107	Result 268	%Rec 107	90-110	0	Limit 20	mg/kg	10.08.2020 14:31	
			200	200	107	200	10,	<i>y</i> 0 110	Ū	20			
Analytical Method:	-	PA 3	00		Madalari	C - 11			Pı	ep Metho			
Seq Number: Parent Sample Id:	3139221 674561-001				Matrix: nple Id:	5011 674561-00)1 S		MS	Date Pro D Sample	-)8.2020 561-001 SD	
Parameter	Pa	arent esult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		71.7	251	325	101	325	101	90-110	0	20	mg/kg	10.08.2020 14:50	
Analytical Method: Seq Number: Parent Sample Id:	3139221 674584-002			MS Sai	-	674584-00			MS	-	ep: 10.0 e Id: 674	08.2020 584-002 SD	
Parameter		arent lesult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		317	253	584	106	583	105	90-110	0	20	mg/kg	10.08.2020 16:19	
Analytical Method: Seq Number:	-)15 M	lod		Matrix:	Salid			Pı	ep Metho Date Pro		8015P)1.2020	
MB Sample Id:	3138683 7712480-1-BL	K				7712480-1	I-BKS		LCS		-	2480-1-BSD	
-	7712480-1-BL	MB	Spike	LCS Sat	nple Id: LCS	7712480-1 LCSD	LCSD	Limits	LCS % RPD	D Sample RPD	-	2480-1-BSD Analysis	Flag
MB Sample Id: Parameter Gasoline Range Hydrocarb	7712480-1-BL R	MB esult	Amount	LCS Sai LCS Result	nple Id: LCS %Rec	7712480-1 LCSD Result	LCSD %Rec		%RPD	D Sample RPD Limit	e Id: 771 Units	2480-1-BSD	Flag
Parameter	7712480-1-BL R oons (GRO)	MB	-	LCS Sat	nple Id: LCS	7712480-1 LCSD	LCSD	Limits 70-130 70-130		D Sample RPD	e Id: 771	2480-1-BSD Analysis Date	Flag
Parameter Gasoline Range Hydrocarb	7712480-1-BL R ons (GRO) ((DRO) (MB cesult <50.0	Amount 1000	LCS Sar LCS Result 951 1040	nple Id: LCS %Rec 95	7712480-1 LCSD Result 1000	LCSD %Rec 100	70-130 70-130 LCS I	%RPD 5 1 D Li	D Sample RPD Limit 20	Units mg/kg	2480-1-BSD Analysis Date 10.01.2020 12:39	Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics	7712480-1-BL R ons (GRO) ((DRO) (MB desult <50.0 <50.0 MB	Amount 1000 1000 MB	LCS Sat LCS Result 951 1040 L	nple Id: LCS %Rec 95 104 CS	7712480-1 LCSD Result 1000 1030 LCS	LCSD %Rec 100 103 LCSI	70-130 70-130) LCS c Flag	%RPD 5 1 D Li	D Sample RPD Limit 20 20	units Units mg/kg mg/kg	2480-1-BSD Analysis Date 10.01.2020 12:39 10.01.2020 12:39 Analysis Date 10.01.2020 12:39	Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics Surrogate	7712480-1-BL R ons (GRO) ((DRO) (MB <sold <50.0 <50.0 MB %Rec</sold 	Amount 1000 1000 MB	LCS Sar LCS Result 951 1040 L %	nple Id: LCS %Rec 95 104 CS Rec	7712480-1 LCSD Result 1000 1030 LCS	LCSD %Rec 100 103 LCSI %Rec	70-130 70-130) LCS c Flag	%RPD 5 1 D Li g 70	D Sample RPD Limit 20 20 mits	e Id: 771 Units mg/kg mg/kg Units	2480-1-BSD Analysis Date 10.01.2020 12:39 10.01.2020 12:39 Analysis Date	Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics Surrogate 1-Chlorooctane	7712480-1-BL R oons (GRO) (DRO) (MB cesult <50.0 <50.0 MB %Rec 94 91	Amount 1000 1000 MB Flag	LCS Sar LCS Result 951 1040 L %	nple Id: LCS %Rec 95 104 CS Rec 07 96 Matrix:	7712480-1 LCSD Result 1000 1030 LCS Flag	LCSD %Rec 100 103 LCSI %Rec 106 95	70-130 70-130) LCS c Flag	%RPD 5 1 D Li g 70 70 70	D Sample RPD Limit 20 20 mits -130	e Id: 771 Units mg/kg mg/kg Units % %	2480-1-BSD Analysis Date 10.01.2020 12:39 10.01.2020 12:39 Analysis Date 10.01.2020 12:39	Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics of Surrogate 1-Chlorooctane o-Terphenyl Analytical Method:	7712480-1-BL R oons (GRO) (DRO)	MB cesult <50.0 <50.0 MB %Rec 94 91	Amount 1000 1000 MB Flag	LCS Sar LCS Result 951 1040 L % 1 1 % MB Sar MB Sar	nple Id: LCS %Rec 95 104 CS Rec 07 96 Matrix:	7712480-1 LCSD Result 1000 1030 LCS Flag Solid	LCSD %Rec 100 103 LCSI %Rec 106 95	70-130 70-130) LCS c Flag	%RPD 5 1 D Li g 70 70 70	D Sample RPD Limit 20 20 mits -130 -130 -130	e Id: 771 Units mg/kg mg/kg Units % %	2480-1-BSD Analysis Date 10.01.2020 12:39 10.01.2020 12:39 Analysis Date 10.01.2020 12:39 10.01.2020 12:39 10.01.2020 12:39 8015P 01.2020 Analysis	Flag Flag
Parameter Gasoline Range Hydrocarb Diesel Range Organics of Surrogate 1-Chlorooctane o-Terphenyl Analytical Method: Seq Number:	7712480-1-BL R oons (GRO) (DRO) TPH by SW8(3138683	MB cesult <50.0 <50.0 MB %Rec 94 91	Amount 1000 1000 MB Flag	LCS San LCS Result 951 1040 L % 1 1	nple Id: LCS %Rec 95 104 CS Rec 07 96 Matrix:	7712480-1 LCSD Result 1000 1030 LCS Flag Solid	LCSD %Rec 100 103 LCSI %Rec 106 95	70-130 70-130) LCS c Flag	%RPD 5 1 D Li g 70 70 70	D Sample RPD Limit 20 20 mits -130 -130 -130	e Id: 771 Units mg/kg mg/kg Units % % od: SW ep: 10.0	2480-1-BSD Analysis Date 10.01.2020 12:39 10.01.2020 12:39 Analysis Date 10.01.2020 12:39 10.01.2020 12:39 10.01.2020 12:39 8015P 01.2020	

 $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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MS/MSD Percent Recovery

Relative Percent Difference LCS/LCSD Recovery Log Difference

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Environment Testing

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QC Summary 674005

TRC Solutions, Inc

Lovington Bootser Station Release

Analytical Method:	TPH by SV	V8015 M	od						P	rep Metho	od: SW	8015P	
Seq Number:	3138683				Matrix:	Soil				Date Pr	ep: 10.0	01.2020	
Parent Sample Id:	673912-001	1		MS Sar	nple Id:	673912-00	01 S		MS	D Sample	e Id: 673	912-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<49.9	997	882	88	869	87	70-130	1	20	mg/kg	10.01.2020 13:44	
Diesel Range Organics ((DRO)	<49.9	997	967	97	994	100	70-130	3	20	mg/kg	10.01.2020 13:44	
Surrogate					1S Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
1-Chlorooctane				ç	95		96		70	-130	%	10.01.2020 13:44	
o-Terphenyl				8	32		85		70	-130	%	10.01.2020 13:44	

Analytical Method:	BTEX by SW 82600	С						P	rep Meth	od: SW	5035A	
Seq Number:	3138901]	Matrix:	Solid				Date Pr	ep: 10.0	02.2020	
MB Sample Id:	7712658-1-BLK		LCS San	nple Id:	7712658-1	I-BKS		LCS	D Sample	e Id: 771	2658-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.0500	0.0494	99	0.0486	97	62-132	2	25	mg/kg	10.02.2020 22:28	
Toluene	< 0.00500	0.0500	0.0445	89	0.0429	86	66-124	4	25	mg/kg	10.02.2020 22:28	
Ethylbenzene	< 0.00100	0.0500	0.0454	91	0.0444	89	71-134	2	25	mg/kg	10.02.2020 22:28	
m,p-Xylenes	< 0.00200	0.100	0.0889	89	0.0881	88	69-128	1	25	mg/kg	10.02.2020 22:28	
o-Xylene	< 0.00100	0.0500	0.0451	90	0.0445	89	72-131	1	25	mg/kg	10.02.2020 22:28	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
Dibromofluoromethane	111		1	14		115		53	-142	%	10.02.2020 22:28	
1,2-Dichloroethane-D4	101		1	03		99		53	-150	%	10.02.2020 22:28	
Toluene-D8	90		9	94		94		70	-130	%	10.02.2020 22:28	

Analytical Method:	BTEX by SW 8260	•						Prep Method: SW5035A				
Seq Number:	3138901			Matrix:	Soil				Date Pr	ep: 10.0	02.2020	
Parent Sample Id:	674005-001		MS Sar	nple Id:	674005-00	01 S		MS	D Sample	e Id: 674	005-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00101	0.0503	0.0397	79	0.0350	71	62-132	13	25	mg/kg	10.02.2020 23:14	
Toluene	< 0.00503	0.0503	0.0344	68	0.0297	60	66-124	15	25	mg/kg	10.02.2020 23:14	Х
Ethylbenzene	< 0.00101	0.0503	0.0356	71	0.0309	62	71-134	14	25	mg/kg	10.02.2020 23:14	Х
m,p-Xylenes	< 0.00201	0.101	0.0696	69	0.0601	61	69-128	15	25	mg/kg	10.02.2020 23:14	Х
o-Xylene	< 0.00101	0.0503	0.0350	70	0.0300	60	72-131	15	25	mg/kg	10.02.2020 23:14	Х
Surrogate				1S Rec	MS Flag	MSD %Red			imits	Units	Analysis Date	
Dibromofluoromethane			1	15		116		53	-142	%	10.02.2020 23:14	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

1,2-Dichloroethane-D4

Toluene-D8

 $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-A}) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-E}) \ / \ (C\text{+E}) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

107

89

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

10.02.2020 23:14

10.02.2020 23:14

Page 10 of 14

103

91

53-150

70-130

%

%

	4	3
	- 4/30 1/66 1 p	AMINANT CAST
nature) Received by: (Signature) Date/Time	re) Date/Time Relinquished by: (Signature)	Relinquished by: (Signature) Received by: (Signature)
re due to circumstances beyond the control nforced unless previously negotiated.	responsibility for any losses or expenses incurred by the client if such losses a \$5 for each sample submitted to Xenco, but not analyzed. These terms will be e	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.
	purchase order from client company to Xenco, its affiliates and subcontractors.	Notice: Signature of this document and relinquishment of samples constitutes a valid
Pb Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U Zn Mn Ni Se An Ti In Vianta In In	BECEA Sh As Ba Be E Cd Ca Cr Co Cu Fe	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas Circle Method/s) and Metal/s) to be analyzed TCLP / SPLP 6010.
		Buckfill 5 19/20/20 1100
Sample Comments	C	Sample Identification Matrix Sampled Sampled
lab, if received by 4:30pm	24 V11	otal Co
TAT starts the day received by the	<u>,</u>	Yes No (NA) Correction Factor:
	ntali	Ces No. 12B
	ners),
	•	SAMPLE RECEIPT Temp Blank: Yes No Wet Ice:
	<u> </u>	Sampler's Name: Turiu Buh / Mish Teinert Due Date:
)	
		Fr Relear A
UEST Work Order Notes	Turn Around ANALYSIS REQUEST	Project Name: burnation Bassler Stechan Tu
Deliverables: EDD ADaPT Other:	Cindy, Tania, Nishi	Phone: 43월 -교15 - 6730 Email:
Reporting:Level II Level III PST/UST TRRP Level IV	City, State ZIP:	city, State ZIP: Michand, TX 79705
State of Project:	Address:	Address: 10 Dester Dr. STEISDE
Program: UST/PST PRP Brownfields RRC Superfund	TPC	Company Name: TVCC
ğ	Bill to: (If different) Cincly Cruin	Project Manager: Cindy (Kuin
13-620-2000) www.xenco.com Page of	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Hobbs,NM (575-392-7)
	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296	
Work Order No:	Chain of Custody	XENCO

Final 1.001



Work Order No: UT4005

Inter-Office Shipment

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IOS Number : 71245

Date/Time:	09.30.2020	Created by:	Brianna Tee	1	Please send report to:	Jessica Krame	er		
Lab# From	: Midland	Delivery Priori	ity:		Address:	1211 W. Flor	ida Ave		
Lab# To:	Houston	Air Bill No.:	7716770257	79	E-Mail:	jessica.krame	r@xenco	o.com	
Sample Id	Matrix Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	РМ	Analytes	Sign
674005-001	S Backfill	09.30.2020 11:00 SV	W8260CBTEX	BTEX by SW 8260C	10.06.2020	10.14.2020	JKR E	BZ BZME EBZ XYLENE	

Inter Office Shipment or Sample Comments:

Relinquished By:

Brianna Teel

Date Relinquished: 09.30.2020

Received By:

uillo

Monica Benavides

Date Received: 10.01.2020 Cooler Temperature: 2.4

Eurofins Xenco, LLC



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Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 71245

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : HOU-203

Sent By:	Brianna Teel	Date Sent:	09.30.2020 09.11 AM
Received By:	Monica Benavides	Date Received:	10.01.2020 10.00 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	2.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by: Autic Monica Benavides

Date: 10.01.2020

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 09.30.2020 04.38.44 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 674005	Temperature Measuring device used : IR-8
Sample Receip	ot Checklist Comments
#1 *Temperature of cooler(s)?	11.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes Cooling in progress
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes Xenco Stafford-BTEX8260
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Billion Tal

Date: 10.01.2020

Checklist reviewed by: Jession Vramer

Jessica Kramer

Date: 10.05.2020



Environment Testing Xenco

Project Id:

Г

Contact:

Cindy Crain

Project Location:

Certificate of Analysis Summary 675147

TRC Solutions, Inc, Midland, TX

Project Name: Abo to Centurion Station

Date Received in Lab: Wed 10.14.2020 15:23 Report Date: 01.15.2021 16:19

Project Manager: Jessica Kramer

Lab Id:		675147-001		675147-00	7-002 675147-003		675147-004		675147-005		675147-006		
Analysis Requested	Field Id:	BH-1 (0-	BH-1 (0-1'))	BH-1 (10')		BH-1 (15')		BH-1 (20')		BH-1 (25')	
Anuiysis Requesieu	Depth:	0-1 ft		5- ft		10- ft		15- ft		20- ft		25- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.13.2020	13:00	10.13.2020	13:10	10.13.2020	13:20	10.13.2020	13:30	10.13.2020	13:40	10.13.2020 1	13:50
BTEX by SW 8260C	Extracted:	10.21.2020	15:50	10.16.2020	19:30	10.21.2020	15:50	10.21.2020	15:50	10.21.2020	15:50	10.21.2020 1	15:50
SUB: T104704215-20-38	Analyzed:	10.21.2020	17:42	10.17.2020 (05:40	10.21.2020	18:03	10.21.2020	18:23	10.21.2020	18:44	10.21.2020 1	19:05
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.0249	0.0249	<0.000996 ().000996	< 0.0253	0.0253	< 0.0252	0.0252	< 0.0249	0.0249	< 0.0251	0.0251
Toluene		< 0.124	0.124	< 0.00498	0.00498	< 0.126	0.126	< 0.126	0.126	< 0.124	0.124	< 0.125	0.125
Ethylbenzene		0.0502	0.0249	<0.000996 ().000996	< 0.0253	0.0253	< 0.0252	0.0252	< 0.0249	0.0249	< 0.0251	0.0251
m,p-Xylenes		0.313	0.0497	< 0.00199	0.00199	< 0.0505	0.0505	< 0.0503	0.0503	< 0.0497	0.0497	< 0.0501	0.0501
o-Xylene		0.191	0.0249	<0.000996 ().000996	< 0.0253	0.0253	< 0.0252	0.0252	< 0.0249	0.0249	< 0.0251	0.0251
Total Xylenes		0.504	0.0249	<0.000996 ().000996	< 0.0253	0.0253	< 0.0252	0.0252	< 0.0249	0.0249	< 0.0251	0.0251
Total BTEX		0.5542	0.0249	<0.000996 ().000996	< 0.0253	0.0253	< 0.0252	0.0252	< 0.0249	0.0249	< 0.0251	0.0251
TPH by SW8015 Mod	Extracted:	10.14.2020	17:00	10.14.2020	17:00	10.14.2020	17:00	10.14.2020	17:00	10.14.2020	17:00	10.16.2020 (08:00
	Analyzed:	10.15.2020	00:57	10.15.2020 (01:16	10.15.2020	01:35	10.15.2020	01:54	10.15.2020	02:13	10.16.2020 1	16:47
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		113	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8
Diesel Range Organics (DRO)		5600	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		253	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<49.8	49.8
Total TPH		5966	49.8	<50	50	<50	50	<49.9	49.9	<49.9	49.9	<49.8	49.8

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Environment Testing Xenco

Project Id:

Contact:

: Cindy Crain

Project Location:

Certificate of Analysis Summary 675147

TRC Solutions, Inc, Midland, TX

Project Name: Abo to Centurion Station

 Date Received in Lab:
 Wed 10.14.2020 15:23

 Report Date:
 01.15.2021 16:19

Project Manager: Jessica Kramer

	Lab Id:	675147-0	007	675147-00	08		
Analysis Requested	Field Id:	BH-1 (30)))	Duplicate	-1		
Analysis Kequesteu	Depth:	30- ft	30- ft				
	Matrix:	SOIL	SOIL				
	Sampled:	10.13.2020	13:00	10.13.2020 0	00:00		
BTEX by SW 8260C	Extracted:	10.16.2020	19:30	10.16.2020 1	19:30		
SUB: T104704215-20-38	Analyzed:	10.17.2020	07:24	10.17.2020 0)7:44		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		< 0.000990	0.000990	<0.000996 ().000996		
Toluene		< 0.00495	0.00495	< 0.00498	0.00498		
Ethylbenzene		< 0.000990	0.000990	<0.000996 (0.000996		
m,p-Xylenes		< 0.00198	0.00198	< 0.00199	0.00199		
o-Xylene		< 0.000990	0.000990	<0.000996 (0.000996		
Total Xylenes		< 0.00099	0.00099	<0.000996 ().000996		
Total BTEX		< 0.00099	0.00099	<0.000996 ().000996		
TPH by SW8015 Mod	Extracted:	10.16.2020	08:00	10.14.2020 1	17:00		
	Analyzed:	10.16.2020	17:06	10.15.2020 1	11:51		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		61.1	50.0	<50.0	50.0		
Diesel Range Organics (DRO)		90.6	50.0	<50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0		
Total TPH		151.7	50	<50	50		

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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eurofins Environment Testing Xenco

Analytical Report 675147

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for

TRC Solutions, Inc

Project Manager: Cindy Crain

Abo to Centurion Station

01.15.2021

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

01.15.2021 Project Manager: **Cindy Crain TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: Eurofins Xenco, LLC Report No(s): 675147 Abo to Centurion Station Project Address:

Cindy Crain:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 675147. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 675147 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 675147

TRC Solutions, Inc, Midland, TX

Abo to Centurion Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1 (0-1')	S	10.13.2020 13:00	0 - 1 ft	675147-001
BH-1 (5')	S	10.13.2020 13:10	5 ft	675147-002
BH-1 (10')	S	10.13.2020 13:20	10 ft	675147-003
BH-1 (15')	S	10.13.2020 13:30	15 ft	675147-004
BH-1 (20')	S	10.13.2020 13:40	20 ft	675147-005
BH-1 (25')	S	10.13.2020 13:50	25 ft	675147-006
BH-1 (30')	S	10.13.2020 13:00	30 ft	675147-007
Duplicate-1	S	10.13.2020 00:00	ft	675147-008

eurofins Environment Testing Xenco

CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: Abo to Centurion Station

Project ID: Work Order Number(s): 675147
 Report Date:
 01.15.2021

 Date Received:
 10.14.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3139760 TPH by SW8015 Mod Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis. Samples affected are: 675147-008.

Batch: LBA-3140277 BTEX by SW 8260C Samples 675147-003, 004, 005, 006 were run at 25x dilution since they are all white powders.

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Certificate of Analytical Results 675147

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TRC Solutions, Inc, Midland, TX

Abo to Centurion Station

Sample Id: BH-1 (0-1') Lab Sample Id: 675147-001	Matrix:	Soil	Date Receive	d:10.14.2020 15:23
	Date Collecte	ed: 10.13.2020 13:00	Sample Dept	h: 0 - 1 ft
Analytical Method:TPH by SW8015 ModTech:DVMAnalyst:ARMSeq Number:3139760	Date Prep:	10.14.2020 17:00	Prep Method % Moisture: Basis:	SW8015P Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	113	49.8		mg/kg	10.15.2020 00:57		1
Diesel Range Organics (DRO)	C10C28DRO	5600	49.8		mg/kg	10.15.2020 00:57		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	253	49.8		mg/kg	10.15.2020 00:57		1
Total TPH	PHC635	5966	49.8		mg/kg	10.15.2020 00:57		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	81	%	70-130	10.15.2020 00:57		
o-Terphenyl		84-15-1	84	%	70-130	10.15.2020 00:57		

Analytical Me	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	W-+ W-:-1+
Seq Number:	3140277	-		Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0249	0.0249		mg/kg	10.21.2020 17:42	U	25
Toluene	108-88-3	< 0.124	0.124		mg/kg	10.21.2020 17:42	U	25
Ethylbenzene	100-41-4	0.0502	0.0249		mg/kg	10.21.2020 17:42		25
m,p-Xylenes	179601-23-1	0.313	0.0497		mg/kg	10.21.2020 17:42		25
o-Xylene	95-47-6	0.191	0.0249		mg/kg	10.21.2020 17:42		25
Total Xylenes	1330-20-7	0.504	0.0249		mg/kg	10.21.2020 17:42		25
Total BTEX		0.5542	0.0249		mg/kg	10.21.2020 17:42		25
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	89	%	53-142	10.21.2020 17:42		
1,2-Dichloroethane-D4		17060-07-0	90	%	53-150	10.21.2020 17:42		
Toluene-D8		2037-26-5	96	%	70-130	10.21.2020 17:42		

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TRC Solutions, Inc, Midland, TX

Abo to Centurion Station

Sample Id: BH-1 (5 ') Lab Sample Id: 675147-002	Matrix: Date Collecte	Soil d: 10.13.2020 13:10	Date Received:10.14.2020 15:23 Sample Depth: 5 ft			
Analytical Method: TPH by SW801	5 Mod			Prep Method:	SW8015P	
Tech: DVM Analyst: ARM		Date Prep:	10.14.2020 17:00	% Moisture:		
Seq Number: 3139760		Date Prep:	10.14.2020 17.00	Basis:	Wet Weight	
Doromotor	Cos Number	Posult DI	¥1			D:1

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.15.2020 01:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	10.15.2020 01:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.15.2020 01:16	U	1
Total TPH	PHC635	<50	50		mg/kg	10.15.2020 01:16	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	70	%	70-130	10.15.2020 01:16		
o-Terphenyl		84-15-1	84	%	70-130	10.15.2020 01:16		

Analytical Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NAL				
Analyst:	NAL	Date Prep:	10.16.2020 19:30	% Moisture:	*** . *** * 1 .
Seq Number:	3139995	Ĩ		Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996		mg/kg	10.17.2020 05:40	U	1
Toluene	108-88-3	< 0.00498	0.00498		mg/kg	10.17.2020 05:40	U	1
Ethylbenzene	100-41-4	< 0.000996	0.000996		mg/kg	10.17.2020 05:40	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	10.17.2020 05:40	U	1
o-Xylene	95-47-6	< 0.000996	0.000996		mg/kg	10.17.2020 05:40	U	1
Total Xylenes	1330-20-7	< 0.000996	0.000996		mg/kg	10.17.2020 05:40	U	1
Total BTEX		<0.000996	0.000996		mg/kg	10.17.2020 05:40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	100	%	53-142	10.17.2020 05:40		
1,2-Dichloroethane-D4		17060-07-0	96	%	53-150	10.17.2020 05:40		
Toluene-D8		2037-26-5	96	%	70-130	10.17.2020 05:40		

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Abo to Centurion Station

Sample Id: BH-1 (10') Lab Sample Id: 675147-003	Matrix: Soil Date Collected: 10.13.2020 13:20	Date Received:10.14.2020 15:23 Sample Depth: 10 ft
Analytical Method:TPH by SW8015 ModTech:DVMAnalyst:ARMSeq Number:3139760	Date Prep: 10.14.2020 17:00	Prep Method: SW8015P % Moisture: Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.15.2020 01:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	10.15.2020 01:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.15.2020 01:35	U	1
Total TPH	PHC635	<50	50		mg/kg	10.15.2020 01:35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	79	%	70-130	10.15.2020 01:35		
o-Terphenyl		84-15-1	89	%	70-130	10.15.2020 01:35		

Analytical Me	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	*** . *** * 1 .
Seq Number:	3140277			Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.025	3 0.0253		mg/kg	10.21.2020 18:03	U	25
Toluene	108-88-3	< 0.120	6 0.126		mg/kg	10.21.2020 18:03	U	25
Ethylbenzene	100-41-4	< 0.0253	3 0.0253		mg/kg	10.21.2020 18:03	U	25
m,p-Xylenes	179601-23-1	< 0.050	5 0.0505		mg/kg	10.21.2020 18:03	U	25
o-Xylene	95-47-6	< 0.0253	3 0.0253		mg/kg	10.21.2020 18:03	U	25
Total Xylenes	1330-20-7	< 0.0253	3 0.0253		mg/kg	10.21.2020 18:03	U	25
Total BTEX		< 0.0253	3 0.0253		mg/kg	10.21.2020 18:03	U	25
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	92	%	53-142	10.21.2020 18:03		
1,2-Dichloroethane-D4		17060-07-0	96	%	53-150	10.21.2020 18:03		
Toluene-D8		2037-26-5	94	%	70-130	10.21.2020 18:03		

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Abo to Centurion Station

Sample Id: BH-1 (15') Lab Sample Id: 675147-004	Matrix: Soil Date Collected: 10.13.2020 13:3	Date Received:10.14.2020 15:23 0 Sample Depth: 15 ft
Analytical Method:TPH by SW8015 ModTech:DVMAnalyst:ARMSeq Number:3139760	Date Prep: 10.14.2020 17:0	Prep Method: SW8015P % Moisture: Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.15.2020 01:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.15.2020 01:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.15.2020 01:54	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.15.2020 01:54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	76	%	70-130	10.15.2020 01:54		
o-Terphenyl		84-15-1	84	%	70-130	10.15.2020 01:54		

Analytical Me	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	XX7 / XX7 * 1 /
Seq Number:	3140277	Ĩ		Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0252	0.0252		mg/kg	10.21.2020 18:23	U	25
Toluene	108-88-3	< 0.126	0.126		mg/kg	10.21.2020 18:23	U	25
Ethylbenzene	100-41-4	< 0.0252	0.0252		mg/kg	10.21.2020 18:23	U	25
m,p-Xylenes	179601-23-1	< 0.0503	0.0503		mg/kg	10.21.2020 18:23	U	25
o-Xylene	95-47-6	< 0.0252	0.0252		mg/kg	10.21.2020 18:23	U	25
Total Xylenes	1330-20-7	< 0.0252	0.0252		mg/kg	10.21.2020 18:23	U	25
Total BTEX		< 0.0252	0.0252		mg/kg	10.21.2020 18:23	U	25
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	90	%	53-142	10.21.2020 18:23		
1,2-Dichloroethane-D4		17060-07-0	95	%	53-150	10.21.2020 18:23		
Toluene-D8		2037-26-5	100	%	70-130	10.21.2020 18:23		

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Abo to Centurion Station

Sample Id: BH-1 (20') Lab Sample Id: 675147-005	Matrix: Soil Date Collected: 10.13.2020 13:40	Date Received:10.14.2020 15:23 Sample Depth: 20 ft		
Analytical Method:TPH by SW8015 ModTech:DVMAnalyst:ARMSeq Number:3139760	Date Prep: 10.14.2020 17:00	Prep Method: SW8015P % Moisture: Basis: Wet Weight		

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.15.2020 02:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.15.2020 02:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.15.2020 02:13	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.15.2020 02:13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	80	%	70-130	10.15.2020 02:13		
o-Terphenyl		84-15-1	92	%	70-130	10.15.2020 02:13		

Analytical Me	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA	Date Prep:			
Analyst:	NGA		10.21.2020 15:50	% Moisture:	XX7 / XX7 * 1 /
Seq Number:	3140277	Ĩ		Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0249	0.0249		mg/kg	10.21.2020 18:44	U	25
Toluene	108-88-3	< 0.124	0.124		mg/kg	10.21.2020 18:44	U	25
Ethylbenzene	100-41-4	< 0.0249	0.0249		mg/kg	10.21.2020 18:44	U	25
m,p-Xylenes	179601-23-1	< 0.0497	0.0497		mg/kg	10.21.2020 18:44	U	25
o-Xylene	95-47-6	< 0.0249	0.0249		mg/kg	10.21.2020 18:44	U	25
Total Xylenes	1330-20-7	< 0.0249	0.0249		mg/kg	10.21.2020 18:44	U	25
Total BTEX		< 0.0249	0.0249		mg/kg	10.21.2020 18:44	U	25
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	83	%	53-142	10.21.2020 18:44		
1,2-Dichloroethane-D4		17060-07-0	83	%	53-150	10.21.2020 18:44		
Toluene-D8		2037-26-5	94	%	70-130	10.21.2020 18:44		

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Abo to Centurion Station

Sample Id: BH-1 (25') Lab Sample Id: 675147-006	Matrix:	Soil	Date Receive	d:10.14.2020 15:23
	Date Collecte	d: 10.13.2020 13:50	Sample Deptl	n: 25 ft
Analytical Method:TPH by SW8015 ModTech:DVMAnalyst:ARMSeq Number:3139996	Date Prep:	10.16.2020 08:00	Prep Method: % Moisture: Basis:	SW8015P Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.16.2020 16:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.16.2020 16:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.16.2020 16:47	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.16.2020 16:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	76	%	70-130	10.16.2020 16:47		
o-Terphenyl		84-15-1	96	%	70-130	10.16.2020 16:47		

Analytical M	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	XX7 / XX7 * 1 /
Seq Number:	3140277			Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.025	0.0251		mg/kg	10.21.2020 19:05	U	25
Toluene	108-88-3	< 0.125	0.125		mg/kg	10.21.2020 19:05	U	25
Ethylbenzene	100-41-4	< 0.0251	0.0251		mg/kg	10.21.2020 19:05	U	25
m,p-Xylenes	179601-23-1	< 0.0501	0.0501		mg/kg	10.21.2020 19:05	U	25
o-Xylene	95-47-6	< 0.0251	0.0251		mg/kg	10.21.2020 19:05	U	25
Total Xylenes	1330-20-7	< 0.0251	0.0251		mg/kg	10.21.2020 19:05	U	25
Total BTEX		< 0.0251	0.0251		mg/kg	10.21.2020 19:05	U	25
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	91	%	53-142	10.21.2020 19:05		
1,2-Dichloroethane-D4		17060-07-0	91	%	53-150	10.21.2020 19:05		
Toluene-D8		2037-26-5	95	%	70-130	10.21.2020 19:05		

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Abo to Centurion Station

Sample Id: BH-1 (30') Lab Sample Id: 675147-007		Soil 10.13.2020 13:00	Date Received:10.14.2020 15:23 Sample Depth: 30 ft		
Analytical Method:TPH by SW8015 ModTech:DVMAnalyst:ARMSeq Number:3139996	Date Prep: 1	10.16.2020 08:00	Prep Method: % Moisture: Basis:	SW8015P Wet Weight	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	61.1	50.0		mg/kg	10.16.2020 17:06		1
Diesel Range Organics (DRO)	C10C28DRO	90.6	50.0		mg/kg	10.16.2020 17:06		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.16.2020 17:06	U	1
Total TPH	PHC635	151.7	50		mg/kg	10.16.2020 17:06		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-130	10.16.2020 17:06		
o-Terphenyl		84-15-1	111	%	70-130	10.16.2020 17:06		

Analytical Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NAL				
Analyst:	NAL	Date Prep:	10.16.2020 19:30	% Moisture:	XX7 / XX7 * 1 /
Seq Number:	3139995	Ĩ		Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000990	0.000990		mg/kg	10.17.2020 07:24	U	1
Toluene	108-88-3	< 0.00495	0.00495		mg/kg	10.17.2020 07:24	U	1
Ethylbenzene	100-41-4	< 0.000990	0.000990		mg/kg	10.17.2020 07:24	U	1
m,p-Xylenes	179601-23-1	< 0.00198	0.00198		mg/kg	10.17.2020 07:24	U	1
o-Xylene	95-47-6	< 0.000990	0.000990		mg/kg	10.17.2020 07:24	U	1
Total Xylenes	1330-20-7	< 0.00099	0.00099		mg/kg	10.17.2020 07:24	U	1
Total BTEX		< 0.00099	0.00099		mg/kg	10.17.2020 07:24	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	107	%	53-142	10.17.2020 07:24		
1,2-Dichloroethane-D4		17060-07-0	102	%	53-150	10.17.2020 07:24		
Toluene-D8		2037-26-5	99	%	70-130	10.17.2020 07:24		

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TRC Solutions, Inc, Midland, TX

Abo to Centurion Station

Sample Id: Duplicate-1 Lab Sample Id: 675147-008		Soil d: 10.13.2020 00:00	Date Received:10.14.2020 15:23				
Analytical Method:TPH by SW8015Tech:DVMAnalyst:ARMSeq Number:3139760	Mod	Date Prep:	10.14.2020 17:00	Prep Method: SW8015P % Moisture: Basis: Wet Weight			
Parameter	Cas Number	Result RI	L U	Jnits Analysis Date Flag Dil			

r ai ailletei	Cas Nullibe	i Kesuit	KL		Units	Analysis Date	riag	Dii
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.15.2020 11:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	10.15.2020 11:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.15.2020 11:51	U	1
Total TPH	PHC635	<50	50		mg/kg	10.15.2020 11:51	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	65	%	70-130	10.15.2020 11:51	**	
o-Terphenyl		84-15-1	76	%	70-130	10.15.2020 11:51		

Analytical M	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NAL				
Analyst:	NAL	Date Prep:	10.16.2020 19:30	% Moisture: Basis:	Wet Weisht
Seq Number:	3139995	-		SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996		mg/kg	10.17.2020 07:44	U	1
Toluene	108-88-3	< 0.00498	0.00498		mg/kg	10.17.2020 07:44	U	1
Ethylbenzene	100-41-4	< 0.000996	0.000996		mg/kg	10.17.2020 07:44	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	10.17.2020 07:44	U	1
o-Xylene	95-47-6	< 0.000996	0.000996		mg/kg	10.17.2020 07:44	U	1
Total Xylenes	1330-20-7	< 0.000996	0.000996		mg/kg	10.17.2020 07:44	U	1
Total BTEX		<0.000996	0.000996		mg/kg	10.17.2020 07:44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	97	%	53-142	10.17.2020 07:44		
1,2-Dichloroethane-D4		17060-07-0	94	%	53-150	10.17.2020 07:44		
Toluene-D8		2037-26-5	97	%	70-130	10.17.2020 07:44		

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 675147

TRC Solutions, Inc

Abo to Centurion Station

Analytical Method:					Pr	ep Metho	od: SW8	3015P					
Seq Number:	3139760]	Matrix:	Solid				Date Pro	ep: 10.1	4.2020	
MB Sample Id:	7713279-1-	BLK		LCS San	nple Id:	7713279-1	I-BKS		LCSI	D Sample	e Id: 7713	3279-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ns (GRO)	< 50.0	1000	824	82	874	87	70-130	6	20	mg/kg	10.14.2020 20:45	
Diesel Range Organics (DRO)	<50.0	1000	838	84	849	85	70-130	1	20	mg/kg	10.14.2020 20:45	
Surrogate		MB %Rec	MB Flag			LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		70		9	91		96		70	-130	%	10.14.2020 20:45	
o-Terphenyl		83		9	91		99		70	-130	%	10.14.2020 20:45	

Analytical Method:	od						Pi	rep Meth	od: SW	8015P			
Seq Number:	3139996				Matrix:	Solid				Date Pr	ep: 10.1	6.2020	
MB Sample Id:	7713451-1	-BLK		LCS Sar	nple Id:	7713451-1	I-BKS		LCS	D Sample	e Id: 771	3451-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	1000	848	85	830	83	70-130	2	20	mg/kg	10.16.2020 09:09	
Diesel Range Organics	(DRO)	<50.0	1000	924	92	902	90	70-130	2	20	mg/kg	10.16.2020 09:09	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		97		1	03		94		70	-130	%	10.16.2020 09:09	
o-Terphenyl		115		1	08		108		70	-130	%	10.16.2020 09:09	

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW	8015P	
Seq Number:	3139760	Matrix:	Solid	Date Prep:	10.1	4.2020	
		MB Sample Id:	7713279-1-BLK				
Parameter		MB Result		τ	J nits	Analysis Date	Flag
Motor Oil Range Hydrocart	bons (MRO)	<50.0		m	ng/kg	10.14.2020 20:26	

Analytical Method: Seq Number:	TPH by SW8015 Mod 3139996	Matrix: MB Sample Id:	Solid 7713451-1-BLK	Prep Method: Date Prep:			
Parameter		MB Result		U	nits	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)	<50.0		m	ıg/kg	10.16.2020 08:50	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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QC Summary 675147

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Abo to Centurion Station

Analytical Method: Seq Number: Parent Sample Id:	od		Matrix: nple Id:	Soil 675213-00)1 S			ep Methe Date Pr D Sample	ep: 10.1	8015P 6.2020 213-001 SD			
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<49.9	997	802	80	824	82	70-130	3	20	mg/kg	10.16.2020 10:06	
Diesel Range Organics	(DRO)	80.8	997	915	84	937	86	70-130	2	20	mg/kg	10.16.2020 10:06	
Surrogate					1S Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				ç	99		101		70	-130	%	10.16.2020 10:06	
o-Terphenyl				ç	97		100		70	-130	%	10.16.2020 10:06	

Analytical Method: TPH by SW8015 Mod								Prep Method	: SW	8015P	
Seq Number:	3139760				Matrix:	Soil		Date Prep	: 10.1	14.2020	
Parent Sample Id:	675064-032	2		MS Sar	nple Id:	675064-032 S					
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec		Limits		Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<49.9	997	796	80		70-130		mg/kg	10.14.2020 21:43	
Diesel Range Organics	(DRO)	<49.9	997	778	78		70-130		mg/kg	10.14.2020 21:43	
Surrogate					1S Rec	MS Flag		Limits	Units	Analysis Date	
1-Chlorooctane				8	32			70-130	%	10.14.2020 21:43	
o-Terphenyl				8	35			70-130	%	10.14.2020 21:43	

Analytical Method: Seq Number: MB Sample Id:	BTEX by SW 82600 3139995 7713499-1-BLK	C		Matrix: nple Id:	Solid 7713499-1	I-BKS			rep Methe Date Pr D Sample	ep: 10.1	5035A 16.2020 3499-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.0500	0.0498	100	0.0461	92	62-132	8	25	mg/kg	10.17.2020 01:12	
Toluene	< 0.00500	0.0500	0.0542	108	0.0474	95	66-124	13	25	mg/kg	10.17.2020 01:12	
Ethylbenzene	< 0.00100	0.0500	0.0528	106	0.0476	95	71-134	10	25	mg/kg	10.17.2020 01:12	
m,p-Xylenes	< 0.00200	0.100	0.104	104	0.0937	94	69-128	10	25	mg/kg	10.17.2020 01:12	
o-Xylene	< 0.00100	0.0500	0.0519	104	0.0477	95	72-131	8	25	mg/kg	10.17.2020 01:12	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
Dibromofluoromethane	96		ç	96		99		53	-142	%	10.17.2020 01:12	
1,2-Dichloroethane-D4	100		ç	02		104		53	-150	%	10.17.2020 01:12	
Toluene-D8	96		1	00		101		70	-130	%	10.17.2020 01:12	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

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Xenco

Environment Testing

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QC Summary 675147

TRC Solutions, Inc

Abo to Centurion Station

Analytical Method: Seq Number: MB Sample Id:	BTEX by SW 82600 3140277 7713687-1-BLK	C		Matrix: ple Id:	Solid 7713687-1	1-BKS			rep Meth Date Pr D Sample	ep: 10.2	5035A 1.2020 3687-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.0500	0.0452	90	0.0430	86	62-132	5	25	mg/kg	10.21.2020 10:18	
Toluene	< 0.00500	0.0500	0.0483	97	0.0479	96	66-124	1	25	mg/kg	10.21.2020 10:18	
Ethylbenzene	< 0.00100	0.0500	0.0457	91	0.0471	94	71-134	3	25	mg/kg	10.21.2020 10:18	
m,p-Xylenes	< 0.00200	0.100	0.0922	92	0.0959	96	69-128	4	25	mg/kg	10.21.2020 10:18	
o-Xylene	< 0.00100	0.0500	0.0496	99	0.0471	94	72-131	5	25	mg/kg	10.21.2020 10:18	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
Dibromofluoromethane	84		1	01		89		53	-142	%	10.21.2020 10:18	
1,2-Dichloroethane-D4	87		10	03		89		53	-150	%	10.21.2020 10:18	
Toluene-D8	93		10	03		95		70	-130	%	10.21.2020 10:18	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by SW 82600 3139995 675145-002	C		Matrix: ple Id:	Soil 675145-00	02 S			rep Meth Date Pr D Sample	ep: 10.1	5035A 6.2020 145-002 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.000996	0.0498	0.0462	93	0.0443	89	62-132	4	25	mg/kg	10.17.2020 01:55	
Toluene	< 0.00498	0.0498	0.0491	99	0.0434	88	66-124	12	25	mg/kg	10.17.2020 01:55	
Ethylbenzene	< 0.000996	0.0498	0.0450	90	0.0425	86	71-134	6	25	mg/kg	10.17.2020 01:55	
m,p-Xylenes	< 0.00199	0.0996	0.0872	88	0.0809	82	69-128	7	25	mg/kg	10.17.2020 01:55	
o-Xylene	< 0.000996	0.0498	0.0446	90	0.0442	89	72-131	1	25	mg/kg	10.17.2020 01:55	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
Dibromofluoromethane			10	04		111		53	-142	%	10.17.2020 01:55	
1,2-Dichloroethane-D4			10)9		94		53	-150	%	10.17.2020 01:55	
Toluene-D8			10	07		105		70	-130	%	10.17.2020 01:55	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by SW 82600 3140277 675145-004	С		Matrix: nple Id:	Soil 675145-00)4 S			rep Metho Date Pr D Samplo	ep: 10.2	5035A 21.2020 145-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00101	0.0503	0.0437	87	0.0467	94	62-132	7	25	mg/kg	10.21.2020 12:26	
Toluene	< 0.00503	0.0503	0.0448	89	0.0510	103	66-124	13	25	mg/kg	10.21.2020 12:26	
Ethylbenzene	< 0.00101	0.0503	0.0427	85	0.0486	98	71-134	13	25	mg/kg	10.21.2020 12:26	
m,p-Xylenes	0.00200	0.101	0.0885	86	0.0999	99	69-128	12	25	mg/kg	10.21.2020 12:26	
o-Xylene	0.000996	0.0503	0.0460	89	0.0513	101	72-131	11	25	mg/kg	10.21.2020 12:26	
Surrogate				IS Rec	MS Flag	MSI %Re			imits	Units	Analysis Date	
Dibromofluoromethane			1	05		104		53	-142	%	10.21.2020 12:26	
1,2-Dichloroethane-D4			9	98		108		53	-150	%	10.21.2020 12:26	
Toluene-D8			9	9		105		70	-130	%	10.21.2020 12:26	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $\begin{array}{l} \text{[D]} & = 100^{+} \left[(\text{C-E}) / (\text{C+E}) \right] \\ \text{[D]} & = 100^{+} (\text{C}) / [\text{B}] \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} - \text{Log(Original Sample)} \end{array}$ LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

.

				•	Cha	in o	Chain of Custody	stody			Work Order No:	14941
C LAB	ABORATORIES		Houston, I X (2 Midland, TX (Houston, IX (281) 24U-4200 Dallas, IX (214) 902-0300 San Antonio, IX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 (475-302 7550) Bhoosix A7 (480 355 0000) Atlanta GA (770 440 8800) Tampa El (24)	Dallas, I. EL Pas	x (214) ; o,TX (91	902-0300 S 5)585-3443	San Antonio 3 Lubbock,		9-3334 -1296 ⊑ /813 62		Dr -
Project Manager: (Cindy Crain		Bill to: (if different) Cindy Crain	Bill to: (if different)) <u>(</u>	Cindy Crain	3				Work Order Cor	
	TRC		Q	Company Name:		õ					Program: UST/PST PRP Brownfields RRC Superfund	
	10 Desta Dr. STE 150E		A	Address:							State of Project:	
te ZIP:	7970		Q	City, State ZIP:							Reporting:Level III □Level III □PST/UST □TRRP □ Level IV □	
	432-215-6730		Email: C		Misti						Deliverables: EDD ADaPT C 0	Other:
Name:	Abo Centurion Station		Tum	Turn Around				A	ANALYSIS	YSIS REQUEST		Work Order Notes
er:			Routine			<u> </u>			••••••••••••••••••••••••••••••••••••••			
P.O. Number:			Rush:									
Sampler's Name:	Tania Babu		Due Date:	nte:								
SAMPLE RECEIPT	PT Tẹmp Blank:	Yes (No)	Wet Ice:	Yes No	i							
Temperature (°C):	b' h/h"h	Th	Thermometer ID	(ners							
Received Intact:	(Yes N		K8		ontai							
Sample Custody Seals:	IS: Yes No (N/A	Total	Total Containers:				,				TAT starts	TAT starts the day recevied by the lab, if received by 4:30pm
Sample Identification	-	Date Sampled	Time Sampled	Depth	Numbe	BTEX (8					Sam	Sample Comments
BH-1 (0-1')	-1') s	10/13/2020	1300 0	0-1'		× ×						
BH-1 (5')	5') s	10/13/2020	1310 5'	-		××						x- run analysis
BH-1 (10')	10') s	10/13/2020	1320 1	10'		××						V- HOLD
BH-1 (15')	15') s	10/13/2020	1330 1	15'	<u> </u>							
BH-1 (20')	20') s	10/13/2020	1340 2	20'		×						
BH-1 (25')	25') s	10/13/2020	1350 2	25'		V V						
BH-1 (30')	30') s	10/13/2020	1400 3	30'	<u>-</u>	< <						
Duplicate-1	te-1 s	10/13/2020	-			×						
Total 200.7 / 6010 Circle Method(s)	<pre>stal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed</pre>	BRCI	RA 13PPM Texas	11 8R(o As Ba Sb As E	Be B 3a Be	Cd Ca Cr Cd Cr Co	£∶S	Cu Fe Pb Mg Pb Mn Mo Ni	Mg Mn Mo Ni K Se Ag SiO2 Na Sr U Ni Se Ag TI U 1631 / 245.1 / 7470 U	∣Sn U V Zn /7470 /7471 : Hg
Notice: Signature of this of service. Xenco will be of Xenco. A minimum cha	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and sub of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if su of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These ter	of samples constit oles and shall not a o each project and	utes a valid purcl assume any resp a charge of \$5 fc	hase order from onsibility for any or each sample s	client co / losses (;ubmittec	mpany te pr expens I to Xenc	> Xenco, its a ses incurred o, but not an	affiliates and by the clien nalyzed. The	l subcontract t if such loss se terms will	ors. It assiç es are due t be enforced	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	
Relinquished by;	; (Signature)	Received b	Received by Signature	e)		Date/Time	ne	Relinqu	Relinquished by: (Signature)	(Signatu	re) Received by: (Signature)	Date/Time
1 25-25			t		10/14/20		15:23 2	N				
ω								4				
σ								0				Revised Date 051418 Rev. 2018.

Released to Imaging: 6/28/2021 3:41:35 PM

Final 1.002

Received by OCD: 2/23/2021 11:07:42 AM

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Work Order No: 675147
Inter-Office Shipment

•

IOS Number : 71847

Date/Time	: 10.14.2020	Created by:	Brianna Te	el	Please send report to	: Jessica Kram	ner		
Lab# From	i: Midland	Delivery Price	ority:		Address:	1211 W. Flor	rida Av	e	
Lab# To:	Houston	Air Bill No.:	771801601	301	E-Mail:	jessica.kramo	er@eur	ofinset.com	
Sample Id	Matrix Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
675147-001	S BH-1 (0-1')	10.13.2020 13:00	SW8260CBTEX	BTEX by SW 8260C	10.20.2020	10.27.2020	JKR	BZ BZME EBZ XYLENE	
675147-002	S BH-1 (5')	10.13.2020 13:10	SW8260CBTEX	BTEX by SW 8260C	10.20.2020	10.27.2020	JKR	BZ BZME EBZ XYLENE	
675147-003	S BH-1 (10')	10.13.2020 13:20	SW8260CBTEX	BTEX by SW 8260C	10.20.2020	10.27.2020	JKR	BZ BZME EBZ XYLENE	
675147-004	S BH-1 (15')	10.13.2020 13:30	SW8260CBTEX	BTEX by SW 8260C	10.20.2020	10.27.2020	JKR	BZ BZME EBZ XYLENE	
675147-005	S BH-1 (20')	10.13.2020 13:40	SW8260CBTEX	BTEX by SW 8260C	10.20.2020	10.27.2020	JKR	BZ BZME EBZ XYLENE	
675147-006	S BH-1 (25')	10.13.2020 13:50	SW8260CBTEX	BTEX by SW 8260C	10.20.2020	10.27.2020	JKR	BZ BZME EBZ XYLENE	
675147-006	S BH-1 (25')	10.13.2020 13:50	SW8260CBTEX	BTEX by SW 8260C	10.20.2020	10.27.2020	JKR	BZ BZME EBZ XYLENE	
675147-007	S BH-1 (30')	10.13.2020 13:00	SW8260CBTEX	BTEX by SW 8260C	10.20.2020	10.27.2020	JKR	BZ BZME EBZ XYLENE	
675147-007	S BH-1 (30')	10.13.2020 13:00	SW8260CBTEX	BTEX by SW 8260C	10.20.2020	10.27.2020	JKR	BZ BZME EBZ XYLENE	
675147-008	S Duplicate-1	10.13.2020 00:00	SW8260CBTEX	BTEX by SW 8260C	10.20.2020	10.27.2020	JKR	BZ BZME EBZ XYLENE	

Inter Office Shipment or Sample Comments:

Relinquished By:

Brianna Teel

Date Relinquished: 10.14.2020

Lypte Key Hypatia Keys				
Hypatia Keys				
10.15.2020				
4.1				

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Eurofins Xenco, LLC



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Inter Office Report- Sample Receipt Checklist

Sent To: Houston IOS #: 71847

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : hou-203

Sent By:	Brianna Teel	Date Sent:	10.14.2020 03.49 PM
Received By:	Hypatia Keys	Date Received:	10.15.2020 04.25 PM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	4.1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received with appropriate temperature?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 *Custody Seals Signed and dated for Containers/coolers	Yes	
#6 *IOS present?	Yes	
#7 Any missing/extra samples?	No	
#8 IOS agrees with sample label(s)/matrix?	Yes	
#9 Sample matrix/ properties agree with IOS?	Yes	
#10 Samples in proper container/ bottle?	Yes	
#11 Samples properly preserved?	Yes	
#12 Sample container(s) intact?	Yes	
#13 Sufficient sample amount for indicated test(s)?	Yes	
#14 All samples received within hold time?	Yes	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by:

10	_ 12	
Terre	the trey	
-11	-/-	

Date: 10.15.2020

Hypatia Keys

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC					
Date/ Time Received: 10.14.2020 03.23.00 PM	Air and Metal samples Acceptable Range: Ambient					
Work Order #: 675147	Temperature Measuring device used : IR-8					
Sample Rece	ipt Checklist Comments					
#1 *Temperature of cooler(s)?	4.9					
#2 *Shipping container in good condition?	Yes					
#3 *Samples received on ice?	Yes					
#4 *Custody Seals intact on shipping container/ cooler?	N/A					
#5 Custody Seals intact on sample bottles?	N/A					
#6*Custody Seals Signed and dated?	N/A					
#7 *Chain of Custody present?	Yes					
#8 Any missing/extra samples?	No					
#9 Chain of Custody signed when relinquished/ received?	Yes					
#10 Chain of Custody agrees with sample labels/matrix?	Yes					
#11 Container label(s) legible and intact?	Yes					
#12 Samples in proper container/ bottle?	Yes					
#13 Samples properly preserved?	Yes					
#14 Sample container(s) intact?	Yes					
#15 Sufficient sample amount for indicated test(s)?	Yes					
#16 All samples received within hold time?	Yes					
#17 Subcontract of sample(s)?	Yes Xenco Stafford-BTEX8260					
#18 Water VOC samples have zero headspace?	N/A					

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Bull Tal Brianna Teel

Date: 10.14.2020

Checklist reviewed by: fession Weamer

Jessica Kramer

Date: 10.15.2020

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Project Location:

Project Id:

Benzene

Toluene

Ethylbenzene

m,p-Xylenes

Total Xylenes Total BTEX

o-Xylene

Total TPH

Contact:

Environment Testing Xenco

Analysis Requested

BTEX by SW 8260C

TPH By SW8015 Mod

Gasoline Range Hydrocarbons (GRO)

Motor Oil Range Hydrocarbons (MRO)

Diesel Range Organics (DRO)

SUB: T104704215-20-38

390412

Cindy Crain

Artesia, NM

Certificate of Analysis Summary 675213

TRC Solutions, Inc, Midland, TX

Project Name: HEP Abo to Centurion

Date Received in Lab: Thu 10.15.2020 10:43 Report Date: 10.29.2020 08:06 Project Manager: Jessica Kramer Lab Id: 675213-001 675213-002 675213-003 675213-004 675213-005 675213-006 Field Id: CS-1 (8') CS-2 (3') CS-3 (2') CSW-1 CSW-2 CSW-3 Depth: 8- ft 3- ft 1- ft 1.5- ft 4- ft 2- ft Matrix: SOIL SOIL SOIL SOIL SOIL SOIL Sampled: 10.14.2020 10:00 10.14.2020 10:10 10.14.2020 10:20 10.14.2020 10:30 10.14.2020 10:40 10.14.2020 10:50 10.16.2020 19:30 10.22.2020 17:30 10.16.2020 19:30 10.21.2020 15:50 Extracted: 10.21.2020 15:50 10.21.2020 15:50 Analyzed: 10.17.2020 08:47 10.23.2020 03:47 10.17.2020 09:28 10.21.2020 19:34 10.21.2020 19:46 10.21.2020 20:07 RL mg/kg RL RL RL RL Units/RL: mg/kg mg/kg mg/kg mg/kg mg/kg <0.000992 0.000992 < 0.00100 0.00100 < 0.000992 0.000992 <0.000996 0.000996 < 0.00100 0.00100 < 0.000998 0.000998 0.0190 0.00500 < 0.00496 < 0.00498 0.00498 < 0.00502 0.00502 < 0.00499 0.00499 < 0.00496 0.00496 0.00496 <0.000992 0.000992 0.00745 0.00100 < 0.000992 0.000992 < 0.000996 0.000996 < 0.00100 0.00100 < 0.000998 0.000998 0.00198 0.0271 0.00200 < 0.00198 0.00198 < 0.00199 0.00199 < 0.00201 0.00201 < 0.00200 0.00200 < 0.00198 0.00438 0.000992 < 0.000992 0.000992 0.0478 0.00100 < 0.000996 0.000996 < 0.00100 0.00100 < 0.000998 0.000998 0.0749 0.001 0.00438 0.000992 < 0.001 0.001 0.000998 < 0.000992 0.000992 < 0.000996 0.000996 < 0.000998 < 0.000992 0.000992 0.10135 0.001 0.00438 0.000992 < 0.000996 0.000996 < 0.001 0.00 < 0.000998 0.000998

10.16.2020 08:00

10.16.2020 11:23

mg/kg

Final 1.001

< 50.0

<50.0

<50.0

<50

RL

50.0

50.0

50.0

50

10.16.2020 08:00

10.16.2020 11:03

mg/kg

< 50.0

340

< 50.0

340

RL

50.0

50.0

50.0

50

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Extracted:

Analyzed:

Units/RL:

10.16.2020 08:00

10.16.2020 09:47

mg/kg

< 50.0

80.8

< 50.0

80.8

RL

50.0

50.0

50.0

50

RL

RL

50.0

50.0 50.0

50

10.16.2020 08:00

10.16.2020 12:01

mg/kg

< 50.0

65.5

< 50.0

65.5

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10.16.2020 08:00

10.16.2020 10:44

162

3070

135

3367

mg/kg

RL

49.8

49.8

49.8

49.8

10.16.2020 08:00

10.16.2020 11:42

mg/kg

<49.9

<49.9

<49.9

<49.9

RL

49.9

49.9

49.9

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Environment Testing Xenco

Certificate of Analysis Summary 675213

TRC Solutions, Inc, Midland, TX

Project Name: HEP Abo to Centurion

Project Id: 390412 Date Received in Lab: Thu 10.15.2020 10:43 Report Date: 10.29.2020 08:06 Cindy Crain **Contact:** Artesia, NM Project Manager: Jessica Kramer **Project Location:** Lab Id: 675213-007 675213-008 675213-009 675213-010 675213-011 675213-012 Field Id: Duplicate-1 Stockpile CS-4 (2') CS-5 (2') CS-6(2') CS-7 (2') Analysis Requested Depth: 2- ft 2- ft 2- ft 2- ft Matrix: SOIL SOIL SOIL SOIL SOIL SOIL Sampled: 10.14.2020 00:00 10.14.2020 11:00 10.14.2020 12:20 10.14.2020 12:00 10.14.2020 12:10 10.14.2020 12:30 BTEX by SW 8260C 10.21.2020 15:50 10.21.2020 15:50 10.23.2020 08:00 10.23.2020 08:00 10.23.2020 13:00 10.22.2020 14:30 Extracted: SUB: T104704215-20-38 Analyzed: 10.21.2020 20:28 10.21.2020 20:49 10.23.2020 18:50 10.23.2020 19:11 10.23.2020 15:37 10.22.2020 14:48 RL mg/kg RL mg/kg RL RL RL RL Units/RL: mg/kg mg/kg mg/kg mg/kg < 0.00100 0.00100 < 0.00100 0.00100 <0.000994 0.000994 < 0.000992 0.000992 < 0.00101 0.00101 < 0.00100 0.00100 Benzene 0.00502 0.0189 0.00502 < 0.00500 0.00500 0.00497 < 0.00496 0.00496 < 0.00504 0.00504 Toluene < 0.00502 0.00817 < 0.00100 0.00100 0.00335 0.00100 0.00199 0.00100 0.00489 0.000994 0.00246 0.000992 < 0.00101 0.00101 Ethylbenzene 0.00201 0.236 0.00201 0.00667 0.00200 0.0265 0.00199 0.00985 0.00198 < 0.00202 0.00202 < 0.00201 m,p-Xylenes 0.740 D 0.0251 0.00244 0.00100 0.00445 0.000992 o-Xylene < 0.00100 0.00100 0.0406 0.000994 < 0.00101 0.00101 0.001 0.976 0.00201 0.00911 0.001 0.0671 0.000994 0.0143 0.000992 < 0.00101 0.00101 < 0.001 Total Xylenes Total BTEX < 0.001 0.001 0.99825 0.001 0.0111 0.001 0.08016 0.000994 0.01676 0.000992 < 0.00101 0.00101 Chloride by EPA 300 Extracted: 10.16.2020 16:50 10.16.2020 20:25 Analyzed: Units/RL: mg/kg RL Chloride 119 50.2 TPH By SW8015 Mod Extracted: 10.16.2020 08:00 10.16.2020 08:00 10.16.2020 08:00 10.16.2020 08:00 10.16.2020 08:00 10.16.2020 08:00 Analyzed: 10.16.2020 12:20 10.16.2020 12:39 10.16.2020 13:18 10.16.2020 13:37 10.16.2020 14:15 10.16.2020 14:34 RL mg/kg RL mg/kg RL mg/kg RL mg/kg RL mg/kg RL Units/RL: mg/kg Gasoline Range Hydrocarbons (GRO) <49.9 49.9 294 49.8 < 50.0 50.0 95.1 49.9 < 50.0 50.0 <49.8 49.8 49.8 Diesel Range Organics (DRO) <49.9 49.9 3530 49.8 2880 50.0 777 49.9 335 50.0 <49.8 277 55.5 <50.0 Motor Oil Range Hydrocarbons (MRO) 49.9 233 49.8 50.0 49.9 50.0 <49.8 49.8 <49.9 927.6 Total TPH <49.9 49.9 4057 49.8 3157 50 49.9 335 50 <49.8 49.8

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Project Id:

Project Location:

Contact:

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390412

Cindy Crain

Artesia, NM

Certificate of Analysis Summary 675213

TRC Solutions, Inc, Midland, TX

Project Name: HEP Abo to Centurion

Date Received in Lab: Thu 10.15.2020 10:43 **Report Date:** 10.29.2020 08:06 Project Manager: Jessica Kramer

	Lab Id:	675213-	013	675213-0)14	675213-0	015	675213-016		675213-017		
Analysis Requested	Field Id:	CSW-4		CSW-	5	CSW-6		CSW-7		CSW-8		
Anuiysis Kequesieu	Depth:											
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	10.14.2020	12:40	10.14.2020	12:50	10.14.2020	13:00	10.14.2020	3:10	10.14.2020	13:20	
BTEX by SW 8260C	Extracted:	10.22.2020	17:30	10.23.2020	13:00	10.23.2020	13:00	10.23.2020	3:00	10.23.2020	13:00	
SUB: T104704215-20-38	Analyzed:	10.23.2020	04:08	10.23.2020	15:58	10.23.2020	16:19	10.23.2020	6:40	10.23.2020	17:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00100	0.00100	< 0.00100	0.00100	< 0.00100	0.00100	<0.000994).000994	< 0.00100	0.00100	
Toluene		< 0.00500	0.00500	< 0.00500	0.00500	< 0.00500	0.00500	< 0.00497	0.00497	< 0.00502	0.00502	
Ethylbenzene		0.00315	0.00100	0.00413	0.00100	< 0.00100	0.00100	<0.000994).000994	0.00482	0.00100	
m,p-Xylenes		< 0.00200	0.00200	0.0146	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	0.0194	0.00201	
o-Xylene		0.00471	0.00100	0.00604	0.00100	< 0.00100	0.00100	<0.000994).000994	0.0168	0.00100	
Total Xylenes		0.00471	0.001	0.02064	0.001	< 0.001	0.001	<0.000994).000994	0.0362	0.001	
Total BTEX		0.00786	0.001	0.02477	0.001	< 0.001	0.001	< 0.000994).000994	0.04102	0.001	
TPH By SW8015 Mod	Extracted:	10.16.2020	10.16.2020 08:00		10.16.2020 08:00		10.16.2020 08:00		08:00	10.16.2020 08:00		
Analyzed:		10.16.2020	14:53	10.16.2020	15:12	10.16.2020 15:31		10.16.2020	5:50	10.16.2020	16:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		418	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	56.2	50.0	
Diesel Range Organics (DRO)		3520	50.0	<49.9	49.9	<49.8	49.8	56.7	50.0	56.9	50.0	
Motor Oil Range Hydrocarbons (MRO)		227	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	
Total TPH		4165	50	<49.9	49.9	<49.8	49.8	56.7	50	113.1	50	

BRL - Below Reporting Limit

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Analytical Report 675213

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for

TRC Solutions, Inc

Project Manager: Cindy Crain

HEP Abo to Centurion

390412

10.29.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

10.29.2020

Project Manager: **Cindy Crain TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: Eurofins Xenco, LLC Report No(s): 675213 HEP Abo to Centurion Project Address: Artesia, NM

Cindy Crain:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 675213. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 675213 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

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Sample Cross Reference 675213

TRC Solutions, Inc, Midland, TX

HEP Abo to Centurion

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS-1 (8')	S	10.14.2020 10:00	8 ft	675213-001
CS-2 (3')	S	10.14.2020 10:10	3 ft	675213-002
CS-3 (2')	S	10.14.2020 10:20	2 ft	675213-003
CSW-1	S	10.14.2020 10:30	1 ft	675213-004
CSW-2	S	10.14.2020 10:40	1.5 ft	675213-005
CSW-3	S	10.14.2020 10:50	4 ft	675213-006
Duplicate-1	S	10.14.2020 00:00		675213-007
Stockpile	S	10.14.2020 11:00		675213-008
CS-4 (2')	S	10.14.2020 12:00	2 ft	675213-009
CS-5 (2')	S	10.14.2020 12:10	2 ft	675213-010
CS-6 (2')	S	10.14.2020 12:20	2 ft	675213-011
CS-7 (2')	S	10.14.2020 12:30	2 ft	675213-012
CSW-4	S	10.14.2020 12:40		675213-013
CSW-5	S	10.14.2020 12:50		675213-014
CSW-6	S	10.14.2020 13:00		675213-015
CSW-7	S	10.14.2020 13:10		675213-016
CSW-8	S	10.14.2020 13:20		675213-017

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CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: HEP Abo to Centurion

Project ID:390412Work Order Number(s):675213

Report Date: 10.29.2020 Date Received: 10.15.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3140539 BTEX by SW 8260C

Lab Sample ID 675213-009 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Toluene recovered above QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 675213-008, -009, -010, -011, -014, -015, -016, -017. The Laboratory Control Sample for Toluene is within laboratory Control Limits, therefore the data was accepted.

TRC Solutions, Inc, Midland, TX

Sample Id: CS-1 (8') Lab Sample Id: 675213-001	Matrix: Date Colle	Soil ected: 10.14.2020 10:00	Date Received:10.15.2020 10:43 Sample Depth: 8 ft
Analytical Method: TPH By SW801:	5 Mod		Prep Method: SW8015P
Tech: DVM Analyst: ARM	Date Prep	: 10.16.2020 08:00	% Moisture: Basis: Wet Weight
Seq Number: 3139996	Coo Number – Bosult		C C

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.16.2020 09:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	80.8	50.0		mg/kg	10.16.2020 09:47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.16.2020 09:47	U	1
Total TPH	PHC635	80.8	50		mg/kg	10.16.2020 09:47		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	93	%	70-130	10.16.2020 09:47		
o-Terphenyl		84-15-1	101	%	70-130	10.16.2020 09:47		

Analytical M	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NAL				
Analyst:	NAL	Date Prep:	10.16.2020 19:30	% Moisture:	TT . T
Seq Number:	3139995	Date Hep.		Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000992	0.000992		mg/kg	10.17.2020 08:47	U	1
Toluene	108-88-3	< 0.00496	0.00496		mg/kg	10.17.2020 08:47	U	1
Ethylbenzene	100-41-4	< 0.000992	0.000992		mg/kg	10.17.2020 08:47	U	1
m,p-Xylenes	179601-23-1	< 0.00198	0.00198		mg/kg	10.17.2020 08:47	U	1
o-Xylene	95-47-6	< 0.000992	0.000992		mg/kg	10.17.2020 08:47	U	1
Total Xylenes	1330-20-7	< 0.000992	0.000992		mg/kg	10.17.2020 08:47	U	1
Total BTEX		< 0.000992	0.000992		mg/kg	10.17.2020 08:47	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	111	%	53-142	10.17.2020 08:47		
1,2-Dichloroethane-D4		17060-07-0	104	%	53-150	10.17.2020 08:47		
Toluene-D8		2037-26-5	93	%	70-130	10.17.2020 08:47		

TRC Solutions, Inc, Midland, TX

Sample Id: CS-2 (3')	Matrix: Soil	Date Received:10.15.2020 10:43
Lab Sample Id: 675213-002	Date Collected: 10.14.2020 10:10	Sample Depth: 3 ft
Analytical Method:TPH By SW8015 ModTech:DVMAnalyst:ARMSeq Number:3139996	Date Prep: 10.16.2020 08:00	Prep Method: SW8015P % Moisture: Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	162	49.8		mg/kg	10.16.2020 10:44		1
Diesel Range Organics (DRO)	C10C28DRO	3070	49.8		mg/kg	10.16.2020 10:44		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	135	49.8		mg/kg	10.16.2020 10:44		1
Total TPH	PHC635	3367	49.8		mg/kg	10.16.2020 10:44		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	120	%	70-130	10.16.2020 10:44		
o-Terphenyl		84-15-1	110	%	70-130	10.16.2020 10:44		

Analytical Me	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.22.2020 17:30	% Moisture:	XX7 / XX7 * 1 /
Seq Number:	3140465			Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.23.2020 03:47	U	1
Toluene	108-88-3	0.0190	0.00500		mg/kg	10.23.2020 03:47		1
Ethylbenzene	100-41-4	0.00745	0.00100		mg/kg	10.23.2020 03:47		1
m,p-Xylenes	179601-23-1	0.0271	0.00200		mg/kg	10.23.2020 03:47		1
o-Xylene	95-47-6	0.0478	0.00100		mg/kg	10.23.2020 03:47		1
Total Xylenes	1330-20-7	0.0749	0.001		mg/kg	10.23.2020 03:47		1
Total BTEX		0.10135	0.001		mg/kg	10.23.2020 03:47		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	116	%	53-142	10.23.2020 03:47		
1,2-Dichloroethane-D4		17060-07-0	101	%	53-150	10.23.2020 03:47		
Toluene-D8		2037-26-5	108	%	70-130	10.23.2020 03:47		

TRC Solutions, Inc, Midland, TX

Sample Id: CS-3 (2') Lab Sample Id: 675213-003		Matrix: Date Collected	Soil d: 10.14.2020 10:20	Date Received:10.15.2020 10:43 Sample Depth: 2 ft
Analytical Method: TPH By SW8	8015 Mod			Prep Method: SW8015P
Tech: DVM Analyst: ARM		Date Prep:	10.16.2020 08:00	% Moisture: Basis: Wet Weight
Seq Number: 3139996		•		Basis: Wet Weight
Danamatan	Coa Number	Decult DI	TT.	

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.16.2020 11:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	340	50.0		mg/kg	10.16.2020 11:03		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.16.2020 11:03	U	1
Total TPH	PHC635	340	50		mg/kg	10.16.2020 11:03		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-130	10.16.2020 11:03		
o-Terphenyl		84-15-1	108	%	70-130	10.16.2020 11:03		

Analytical M	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NAL				
Analyst:	NAL	Date Prep:	10.16.2020 19:30	% Moisture:	
Seq Number:	3139995			Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000992	0.000992		mg/kg	10.17.2020 09:28	U	1
Toluene	108-88-3	< 0.00496	0.00496		mg/kg	10.17.2020 09:28	U	1
Ethylbenzene	100-41-4	< 0.000992	0.000992		mg/kg	10.17.2020 09:28	U	1
m,p-Xylenes	179601-23-1	< 0.00198	0.00198		mg/kg	10.17.2020 09:28	U	1
o-Xylene	95-47-6	0.00438	0.000992		mg/kg	10.17.2020 09:28		1
Total Xylenes	1330-20-7	0.00438	0.000992		mg/kg	10.17.2020 09:28		1
Total BTEX		0.00438	0.000992		mg/kg	10.17.2020 09:28		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	104	%	53-142	10.17.2020 09:28		
1,2-Dichloroethane-D4		17060-07-0	105	%	53-150	10.17.2020 09:28		
Toluene-D8		2037-26-5	98	%	70-130	10.17.2020 09:28		

TRC Solutions, Inc, Midland, TX

Sample Id: CSW-1 Lab Sample Id: 675213-004		Matrix: Date Collected	Soil : 10.14.2020 10:30	Date Received:10.15.2020 10:43 Sample Depth: 1 ft			
Analytical Method: TPH By SW80	15 Mod			Prep Method: SW8015P			
Tech: DVM Analyst: ARM Seq Number: 3139996		Date Prep:	10.16.2020 08:00	% Moisture: Basis: Wet Weight			
Domonistan	Cos Number D	ocult DI					

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.16.2020 11:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0		mg/kg	10.16.2020 11:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.16.2020 11:23	U	1
Total TPH	PHC635	<50	50		mg/kg	10.16.2020 11:23	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-130	10.16.2020 11:23		
o-Terphenyl		84-15-1	104	%	70-130	10.16.2020 11:23		

Analytical M	ethod: BTEX by SW 8260C	Date Prep:		Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	
Seq Number:	3140277			Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996		mg/kg	10.21.2020 19:34	U	1
Toluene	108-88-3	< 0.00498	0.00498		mg/kg	10.21.2020 19:34	U	1
Ethylbenzene	100-41-4	< 0.000996	0.000996		mg/kg	10.21.2020 19:34	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	10.21.2020 19:34	U	1
o-Xylene	95-47-6	< 0.000996	0.000996		mg/kg	10.21.2020 19:34	U	1
Total Xylenes	1330-20-7	<0.000996	0.000996		mg/kg	10.21.2020 19:34	U	1
Total BTEX		<0.000996	0.000996		mg/kg	10.21.2020 19:34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	86	%	53-142	10.21.2020 19:34		
1,2-Dichloroethane-D4		17060-07-0	95	%	53-150	10.21.2020 19:34		
Toluene-D8		2037-26-5	97	%	70-130	10.21.2020 19:34		

TRC Solutions, Inc, Midland, TX

HEP Abo to Centurion

Sample Id:CSW-2Lab Sample Id:675213-005	Matrix: Soil Date Collected: 10.14.2020 10:40	Date Received:10.15.2020 10:43 Sample Depth: 1.5 ft
Analytical Method:TPH By SW8015 ModTech:DVMAnalyst:ARMSeq Number:3139996	Date Prep: 10.16.2020 08:00	Prep Method: SW8015P % Moisture: Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.16.2020 11:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.16.2020 11:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.16.2020 11:42	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.16.2020 11:42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-130	10.16.2020 11:42		
o-Terphenyl		84-15-1	107	%	70-130	10.16.2020 11:42		

Analytical Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	
Seq Number:	3140277			Basis: SUB: T104704	Wet Weight \$215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.21.2020 19:46	U	1
Toluene	108-88-3	< 0.00502	0.00502		mg/kg	10.21.2020 19:46	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	10.21.2020 19:46	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	10.21.2020 19:46	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	10.21.2020 19:46	U	1
Total Xylenes	1330-20-7	< 0.001	0.001		mg/kg	10.21.2020 19:46	U	1
Total BTEX		< 0.001	0.001		mg/kg	10.21.2020 19:46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	107	%	53-142	10.21.2020 19:46		
1,2-Dichloroethane-D4		17060-07-0	101	%	53-150	10.21.2020 19:46		
Toluene-D8		2037-26-5	97	%	70-130	10.21.2020 19:46		

TRC Solutions, Inc, Midland, TX

Sample Id:CSW-3Lab Sample Id:675213-006	Matrix: Soil Date Collected: 10.14.2020 10:50	Date Received:10.15.2020 10:43 Sample Depth: 4 ft
Analytical Method:TPH By SW8015 ModTech:DVMAnalyst:ARMSeq Number:3139996	Date Prep: 10.16.2020 08:00	Prep Method: SW8015P % Moisture: Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.16.2020 12:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	65.5	50.0		mg/kg	10.16.2020 12:01		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.16.2020 12:01	U	1
Total TPH	PHC635	65.5	50		mg/kg	10.16.2020 12:01		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-130	10.16.2020 12:01		
o-Terphenyl		84-15-1	104	%	70-130	10.16.2020 12:01		

Analytical M	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	TT . T
Seq Number:	3140277	1		Basis: SUB: T10470	Wet Weight 4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	3 0.000998		mg/kg	10.21.2020 20:07	U	1
Toluene	108-88-3	< 0.00499	0.00499		mg/kg	10.21.2020 20:07	U	1
Ethylbenzene	100-41-4	< 0.000998	0.000998		mg/kg	10.21.2020 20:07	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	10.21.2020 20:07	U	1
o-Xylene	95-47-6	<0.000998	0.000998		mg/kg	10.21.2020 20:07	U	1
Total Xylenes	1330-20-7	<0.000998	0.000998		mg/kg	10.21.2020 20:07	U	1
Total BTEX		<0.000998	0.000998		mg/kg	10.21.2020 20:07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	94	%	53-142	10.21.2020 20:07		
1,2-Dichloroethane-D4		17060-07-0	89	%	53-150	10.21.2020 20:07		
Toluene-D8		2037-26-5	102	%	70-130	10.21.2020 20:07		

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Certificate of Analytical Results 675213

TRC Solutions, Inc, Midland, TX

HEP Abo to Centurion

Sample Id: Duplicate-1 Lab Sample Id: 675213-007	Matrix: Date Collecte	Soil d: 10.14.2020 00:00		Date Received:10.15.2020 10:43			
Analytical Method: TPH By SW801 Tech: DVM	5 Mod				Prep Method:	SW8015P	
Analyst: ARM Seq Number: 3139996		Date Prep:	10.16.2020 08:00		% Moisture: Basis:	Wet Weight	
Parameter	Cas Number	Result RI		Units	Analysis D	ate Flag	Dil

1 al alletel	Cas Numbe	i Ktsuit	KL		Units	Analysis Date	riag	Dii
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.16.2020 12:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.16.2020 12:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.16.2020 12:20	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.16.2020 12:20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-130	10.16.2020 12:20		
o-Terphenyl		84-15-1	108	%	70-130	10.16.2020 12:20		

Analytical M	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	XX7 / XX7 · 1 /
Seq Number:	3140277	Ĩ		Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.21.2020 20:28	U	1
Toluene	108-88-3	< 0.00502	0.00502		mg/kg	10.21.2020 20:28	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	10.21.2020 20:28	U	1
m,p-Xylenes	179601-23-1	< 0.00201	0.00201		mg/kg	10.21.2020 20:28	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	10.21.2020 20:28	U	1
Total Xylenes	1330-20-7	< 0.001	0.001		mg/kg	10.21.2020 20:28	U	1
Total BTEX		< 0.001	0.001		mg/kg	10.21.2020 20:28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	104	%	53-142	10.21.2020 20:28		
1,2-Dichloroethane-D4		17060-07-0	91	%	53-150	10.21.2020 20:28		
Toluene-D8		2037-26-5	95	%	70-130	10.21.2020 20:28		

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HEP Abo to Centurion

Sample Id: Stockpile Lab Sample Id: 675213-008		Matrix: Date Coll	Soil lected: 10.14	.2020 11:00		Date Received:10	0.15.2020 10	43
Analytical Method:Chloride by EPATech:CHEAnalyst:CHESeq Number:3139954	A 300	Date Prep	p: 10.16	.2020 16:50		Prep Method: E3 % Moisture: Basis: Wo	300P Tet Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	119	50.2		mg/kg	10.16.2020 20:25	i	10
Analytical Method: TPH By SW801 Tech: DVM Analyst: ARM Seq Number: 3139996	5 Mod	Date Prep	p: 10.16	.2020 08:00		Prep Method: SV % Moisture: Basis: Wo	W8015P Tet Weight	
Tech: DVM Analyst: ARM	5 Mod Cas Number	Date Prep Result	p: 10.16 RL	.2020 08:00	Units	% Moisture:		Dil
Tech: DVM Analyst: ARM Seq Number: 3139996				.2020 08:00	Units mg/kg	% Moisture: Basis: Wo	et Weight Flag	Dil
Tech: DVM Analyst: ARM Seq Number: 3139996 Parameter	Cas Number	Result	RL	.2020 08:00		% Moisture: Basis: Wo Analysis Date	fet Weight Flag	
Tech: DVM Analyst: ARM Seq Number: 3139996 Parameter Gasoline Range Hydrocarbons (GRO)	Cas Number PHC610	Result 294	RL 49.8	.2020 08:00	mg/kg	% Moisture: Basis: Wo Analysis Date 10.16.2020 12:39	fet Weight Flag	1
Tech: DVM Analyst: ARM Seq Number: 3139996 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)	Cas Number PHC610 C10C28DRO	Result 294 3530	RL 49.8 49.8	.2020 08:00	mg/kg mg/kg	% Moisture: Basis: Wo Analysis Date 10.16.2020 12:39 10.16.2020 12:39	fet Weight Flag	1
Tech: DVM Analyst: ARM Seq Number: 3139996 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO)	Cas Number PHC610 C10C28DRO PHCG2835 PHC635	Result 294 3530 233 4057	RL 49.8 49.8 49.8	.2020 08:00 Units	mg/kg mg/kg mg/kg	% Moisture: Basis: Wo Analysis Date 10.16.2020 12:39 10.16.2020 12:39 10.16.2020 12:39 10.16.2020 12:39	fet Weight Flag	1 1 1
Tech: DVM Analyst: ARM Seq Number: 3139996 Parameter Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) Total TPH	Cas Number PHC610 C10C28DRO PHCG2835 PHC635 Ca	Result 294 3530 233 4057	RL 49.8 49.8 49.8 49.8 49.8		mg/kg mg/kg mg/kg mg/kg	% Moisture: Basis: Wo Analysis Date 10.16.2020 12:39 10.16.2020 12:39 10.16.2020 12:39 10.16.2020 12:39 Analysis Date	fet Weight Flag	1 1 1

Toluene-D8

Certificate of Analytical Results 675213

TRC Solutions, Inc, Midland, TX

HEP Abo to Centurion

Sample Id: Stockpile		Matrix	: Soil			Date Received:10.15	5.2020 10:	43
Lab Sample Id: 675213-008		Date C	ollected: 10.14	.2020 11:00				
Analytical Method: BTEX by S	W 8260C					Prep Method: SW5	035A	
Tech: NGA								
Analyst: NGA		Date P	rep: 10.21	.2020 15:50		% Moisture: Basis: Wet	Weight	
Seq Number: 3140277						SUB: T104704215-2	0	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.21.2020 20:49	U	1
Toluene	108-88-3	0.0189	0.00502		mg/kg	10.21.2020 20:49		1
Ethylbenzene	100-41-4	0.00335	0.00100		mg/kg	10.21.2020 20:49		1
m,p-Xylenes	179601-23-1	0.236	0.00201		mg/kg	10.21.2020 20:49		1
o-Xylene	95-47-6	0.740	0.0251		mg/kg	10.23.2020 19:34	D	25
Total Xylenes	1330-20-7	0.976	0.00201		mg/kg	10.23.2020 19:34		25
Total BTEX		0.99825	0.001		mg/kg	10.23.2020 19:34		25
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane	18	68-53-7	115	%	53-142	10.21.2020 20:49		
1,2-Dichloroethane-D4	17	060-07-0	116	%	53-150	10.21.2020 20:49		

110

%

70-130

10.21.2020 20:49

2037-26-5

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Sample Id: CS-4 (2')	Matrix: Soil	Date Received:10.15.2020 10:43
Lab Sample Id: 675213-009	Date Collected: 10.14.2020 12:00	Sample Depth: 2 ft
Analytical Method:TPH By SW8015 ModTech:DVMAnalyst:ARMSeq Number:3139996	Date Prep: 10.16.2020 08:00	Prep Method: SW8015P % Moisture: Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.16.2020 13:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	2880	50.0		mg/kg	10.16.2020 13:18		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	277	50.0		mg/kg	10.16.2020 13:18		1
Total TPH	PHC635	3157	50		mg/kg	10.16.2020 13:18		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-130	10.16.2020 13:18		
o-Terphenyl		84-15-1	105	%	70-130	10.16.2020 13:18		

Analytical M	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech: Analyst: Seq Number:	AMW AMW 3140539	Date Prep:	10.23.2020 08:00	% Moisture: Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.23.2020 18:50	U	1
Toluene	108-88-3	< 0.00500	0.00500		mg/kg	10.23.2020 18:50	UX	1
Ethylbenzene	100-41-4	0.00199	0.00100		mg/kg	10.23.2020 18:50		1
m,p-Xylenes	179601-23-1	0.00667	0.00200		mg/kg	10.23.2020 18:50		1
o-Xylene	95-47-6	0.00244	0.00100		mg/kg	10.23.2020 18:50		1
Total Xylenes	1330-20-7	0.00911	0.001		mg/kg	10.23.2020 18:50		1
Total BTEX		0.0111	0.001		mg/kg	10.23.2020 18:50		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	97	%	53-142	10.23.2020 18:50		
1,2-Dichloroethane-D4		17060-07-0	106	%	53-150	10.23.2020 18:50		
Toluene-D8		2037-26-5	108	%	70-130	10.23.2020 18:50		

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HEP Abo to Centurion

Sample Id: CS-5 (2') Lab Sample Id: 675213-010		Soil 10.14.2020 12:10	Date Received Sample Depth:	:10.15.2020 10:43 : 2 ft
Analytical Method: TPH By SW8015 Mod Tech: DVM			Prep Method:	SW8015P
Analyst: ARM Seq Number: 3139996	Date Prep:	10.16.2020 08:00	% Moisture: Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	95.1	49.9		mg/kg	10.16.2020 13:37		1
Diesel Range Organics (DRO)	C10C28DRO	777	49.9		mg/kg	10.16.2020 13:37		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	55.5	49.9		mg/kg	10.16.2020 13:37		1
Total TPH	PHC635	927.6	49.9		mg/kg	10.16.2020 13:37		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	106	%	70-130	10.16.2020 13:37		
o-Terphenyl		84-15-1	123	%	70-130	10.16.2020 13:37		

Analytical Me	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	AMW				
Analyst:	AMW	Date Prep:	10.23.2020 08:00	% Moisture:	XX7 / XX7 * 1 /
Seq Number:	3140539	-		Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000994	0.000994		mg/kg	10.23.2020 19:11	U	1
Toluene	108-88-3	0.00817	0.00497		mg/kg	10.23.2020 19:11		1
Ethylbenzene	100-41-4	0.00489	0.000994		mg/kg	10.23.2020 19:11		1
m,p-Xylenes	179601-23-1	0.0265	0.00199		mg/kg	10.23.2020 19:11		1
o-Xylene	95-47-6	0.0406	0.000994		mg/kg	10.23.2020 19:11		1
Total Xylenes	1330-20-7	0.0671	0.000994		mg/kg	10.23.2020 19:11		1
Total BTEX		0.08016	0.000994		mg/kg	10.23.2020 19:11		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	105	%	53-142	10.23.2020 19:11		
1,2-Dichloroethane-D4		17060-07-0	102	%	53-150	10.23.2020 19:11		
Toluene-D8		2037-26-5	103	%	70-130	10.23.2020 19:11		

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Sample Id: CS-6 (2') Lab Sample Id: 675213-011			oil 0.14.2020 12:20		Date Received: Sample Depth:	10.15.2020 10:4 2 ft	43
Analytical Method: TPH By SW801	5 Mod				Prep Method:	SW8015P	
Tech: DVM Analyst: ARM Seq Number: 3139996	Dat	te Prep: 1	0.16.2020 08:00		% Moisture: Basis:	Wet Weight	
Domenator	Cos Number Bosult	Б		T T			D'I

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.16.2020 14:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	335	50.0		mg/kg	10.16.2020 14:15		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.16.2020 14:15	U	1
Total TPH	PHC635	335	50		mg/kg	10.16.2020 14:15		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	89	%	70-130	10.16.2020 14:15		
o-Terphenyl		84-15-1	105	%	70-130	10.16.2020 14:15		

Analytical M	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	AMW				
Analyst:	AMW	Date Prep:	10.23.2020 13:00	% Moisture:	***
Seq Number:	3140539	Ĩ		Basis: SUB: T10470	Wet Weight 4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000992	0.000992		mg/kg	10.23.2020 15:37	U	1
Toluene	108-88-3	< 0.00496	0.00496		mg/kg	10.23.2020 15:37	U	1
Ethylbenzene	100-41-4	0.00246	0.000992		mg/kg	10.23.2020 15:37		1
m,p-Xylenes	179601-23-1	0.00985	0.00198		mg/kg	10.23.2020 15:37		1
o-Xylene	95-47-6	0.00445	0.000992		mg/kg	10.23.2020 15:37		1
Total Xylenes	1330-20-7	0.0143	0.000992		mg/kg	10.23.2020 15:37		1
Total BTEX		0.01676	0.000992		mg/kg	10.23.2020 15:37		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	106	%	53-142	10.23.2020 15:37		
1,2-Dichloroethane-D4		17060-07-0	100	%	53-150	10.23.2020 15:37		
Toluene-D8		2037-26-5	94	%	70-130	10.23.2020 15:37		

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Sample Id: CS-7 (2')	Matrix: Soil	Date Received:10.15.2020 10:43
Lab Sample Id: 675213-012	Date Collected: 10.14.2020 12:30	Sample Depth: 2 ft
Analytical Method:TPH By SW8015 ModTech:DVMAnalyst:ARMSeq Number:3139996	Date Prep: 10.16.2020 08:00	Prep Method: SW8015P % Moisture: Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.16.2020 14:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.16.2020 14:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.16.2020 14:34	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.16.2020 14:34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-130	10.16.2020 14:34		
o-Terphenyl		84-15-1	108	%	70-130	10.16.2020 14:34		

Analytical Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.22.2020 14:30	% Moisture:	TTT . TTT ! 1 .
Seq Number:	3140386	T.		Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00101	0.00101		mg/kg	10.22.2020 14:48	U	1
Toluene	108-88-3	< 0.00504	0.00504		mg/kg	10.22.2020 14:48	U	1
Ethylbenzene	100-41-4	< 0.00101	0.00101		mg/kg	10.22.2020 14:48	U	1
m,p-Xylenes	179601-23-1	< 0.00202	0.00202		mg/kg	10.22.2020 14:48	U	1
o-Xylene	95-47-6	< 0.00101	0.00101		mg/kg	10.22.2020 14:48	U	1
Total Xylenes	1330-20-7	< 0.00101	0.00101		mg/kg	10.22.2020 14:48	U	1
Total BTEX		< 0.00101	0.00101		mg/kg	10.22.2020 14:48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	95	%	53-142	10.22.2020 14:48		
1,2-Dichloroethane-D4		17060-07-0	96	%	53-150	10.22.2020 14:48		
Toluene-D8		2037-26-5	95	%	70-130	10.22.2020 14:48		

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HEP Abo to Centurion

Sample Id: CSW-4 Lab Sample Id: 675213-013		Matrix: Date Collected	Soil d: 10.14.2020 12:40		Date Received:10.15.2020 10:43	
Analytical Method: TPH By SW8015 Tech: DVM Analyst: ARM Seq Number: 3139996	Mod	Date Prep:	10.16.2020 08:00		Prep Method: SW8015P % Moisture: Basis: Wet Weight	
Parameter	Cas Number	Result RL	, ;	Units	Analysis Date Flag I	Dil

T urumeter	ousitumbe	1 1000000	KL		Onto	Analysis Date	Tag	Di
Gasoline Range Hydrocarbons (GRO)	PHC610	418	50.0		mg/kg	10.16.2020 14:53		1
Diesel Range Organics (DRO)	C10C28DRO	3520	50.0		mg/kg	10.16.2020 14:53		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	227	50.0		mg/kg	10.16.2020 14:53		1
Total TPH	PHC635	4165	50		mg/kg	10.16.2020 14:53		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	130	%	70-130	10.16.2020 14:53		
o-Terphenyl		84-15-1	86	%	70-130	10.16.2020 14:53		

Analytical Me	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.22.2020 17:30	% Moisture: Basis:	Wet Weight
Seq Number:	3140465			SUB: T104704	8

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.23.2020 04:08	U	1
Toluene	108-88-3	< 0.00500	0.00500		mg/kg	10.23.2020 04:08	U	1
Ethylbenzene	100-41-4	0.00315	0.00100		mg/kg	10.23.2020 04:08		1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	10.23.2020 04:08	U	1
o-Xylene	95-47-6	0.00471	0.00100		mg/kg	10.23.2020 04:08		1
Total Xylenes	1330-20-7	0.00471	0.001		mg/kg	10.23.2020 04:08		1
Total BTEX		0.00786	0.001		mg/kg	10.23.2020 04:08		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	107	%	53-142	10.23.2020 04:08		
1,2-Dichloroethane-D4		17060-07-0	103	%	53-150	10.23.2020 04:08		
Toluene-D8		2037-26-5	97	%	70-130	10.23.2020 04:08		

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HEP Abo to Centurion

Sample Id: CSW-5 Lab Sample Id: 675213-014		Matrix: Date Collected	Soil 1: 10.14.2020 12:50		Date Received:10	0.15.2020 10:-	43
Analytical Method: TPH B Tech: DVM Analyst: ARM Seq Number: 3139996	y SW8015 Mod	Date Prep:	10.16.2020 08:00		Prep Method: S % Moisture: Basis: W	W8015P /et Weight	
Parameter	Cas Number	Result RI		Units	Analysis Date	Flag	Dil

rarameter	Cas Numbe	i Kesuit	KL		Units	Analysis Date	Flag	Dii
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.16.2020 15:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.16.2020 15:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.16.2020 15:12	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	10.16.2020 15:12	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-130	10.16.2020 15:12		
o-Terphenyl		84-15-1	102	%	70-130	10.16.2020 15:12		

Analytical M	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	AMW				
Analyst:	AMW	Date Prep:	10.23.2020 13:00	% Moisture:	TT 7 . TT 7 1 .
Seq Number:	3140539	1		Basis: SUB: T10470	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.23.2020 15:58	U	1
Toluene	108-88-3	< 0.00500	0.00500		mg/kg	10.23.2020 15:58	U	1
Ethylbenzene	100-41-4	0.00413	0.00100		mg/kg	10.23.2020 15:58		1
m,p-Xylenes	179601-23-1	0.0146	0.00200		mg/kg	10.23.2020 15:58		1
o-Xylene	95-47-6	0.00604	0.00100		mg/kg	10.23.2020 15:58		1
Total Xylenes	1330-20-7	0.02064	0.001		mg/kg	10.23.2020 15:58		1
Total BTEX		0.02477	0.001		mg/kg	10.23.2020 15:58		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	95	%	53-142	10.23.2020 15:58		
1,2-Dichloroethane-D4		17060-07-0	96	%	53-150	10.23.2020 15:58		
Toluene-D8		2037-26-5	94	%	70-130	10.23.2020 15:58		

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HEP Abo to Centurion

Sample Id: CSW-6 Lab Sample Id: 675213-015		Matrix: Date Collecte	Soil d: 10.14.2020 13:00	Date Received:10.15.2020 10:43
Analytical Method: TPH By SW801 Tech: DVM Analyst: ARM	5 Mod	Date Prep:	10.16.2020 08:00	Prep Method: SW8015P % Moisture: Basis: Wet Weight
Seq Number: 3139996	Cas Number	Result BI		nite Analysis Data Flag Dil

r al ameter	Cas Numbe	i Kesuit	KL		Units	Analysis Date	Flag	DII
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	10.16.2020 15:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	10.16.2020 15:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	10.16.2020 15:31	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	10.16.2020 15:31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-130	10.16.2020 15:31		
o-Terphenyl		84-15-1	110	%	70-130	10.16.2020 15:31		

Analytical M	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	AMW				
Analyst:	AMW	Date Prep:	10.23.2020 13:00	% Moisture:	***
Seq Number:	3140539	Ĩ		Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.23.2020 16:19	U	1
Toluene	108-88-3	< 0.00500	0.00500		mg/kg	10.23.2020 16:19	U	1
Ethylbenzene	100-41-4	< 0.00100	0.00100		mg/kg	10.23.2020 16:19	U	1
m,p-Xylenes	179601-23-1	< 0.00200	0.00200		mg/kg	10.23.2020 16:19	U	1
o-Xylene	95-47-6	< 0.00100	0.00100		mg/kg	10.23.2020 16:19	U	1
Total Xylenes	1330-20-7	< 0.001	0.001		mg/kg	10.23.2020 16:19	U	1
Total BTEX		< 0.001	0.001		mg/kg	10.23.2020 16:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	103	%	53-142	10.23.2020 16:19		
1,2-Dichloroethane-D4		17060-07-0	108	%	53-150	10.23.2020 16:19		
Toluene-D8		2037-26-5	94	%	70-130	10.23.2020 16:19		

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HEP Abo to Centurion

Parameter	Undrogentheme (CDO)	Cas Number	Result	RL	Units	Analysis D		lag	Dil
Analyst: Seq Number:	ARM 3139996		Date Pre	p: 10.16.2020 08	:00	% Moisture: Basis:	Wet We	ight	
Analytical Mo Tech:	ethod: TPH By SW80 DVM	15 Mod				Prep Method:	SW8015	5P	
Sample Id: Lab Sample I	CSW-7 d: 675213-016		Matrix: Date Col	Soil lected: 10.14.2020 13	:10	Date Received	1:10.15.20	020 10:	:43

Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	10.16.2020 15:50	U	1	
Diesel Range Organics (DRO)	C10C28DRO	56.7	50.0		mg/kg	10.16.2020 15:50		1	
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.16.2020 15:50	U	1	
Total TPH	PHC635	56.7	50		mg/kg	10.16.2020 15:50		1	
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane		111-85-3	97	%	70-130	10.16.2020 15:50			
o-Terphenyl		84-15-1	110	%	70-130	10.16.2020 15:50			
o reiphenji		01 15 1	110	70	10 100	1011012020 10100			

Analytical Me	ethod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	AMW				
Analyst:	AMW	Date Prep:	10.23.2020 13:00	% Moisture:	XX7 / XX7 * 1 /
Seq Number:	3140539			Basis: SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994		mg/kg	10.23.2020 16:40	U	1
Toluene	108-88-3	< 0.00497	0.00497		mg/kg	10.23.2020 16:40	U	1
Ethylbenzene	100-41-4	< 0.000994	0.000994		mg/kg	10.23.2020 16:40	U	1
m,p-Xylenes	179601-23-1	< 0.00199	0.00199		mg/kg	10.23.2020 16:40	U	1
o-Xylene	95-47-6	< 0.000994	0.000994		mg/kg	10.23.2020 16:40	U	1
Total Xylenes	1330-20-7	< 0.000994	0.000994		mg/kg	10.23.2020 16:40	U	1
Total BTEX		< 0.000994	0.000994		mg/kg	10.23.2020 16:40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	98	%	53-142	10.23.2020 16:40		
1,2-Dichloroethane-D4		17060-07-0	96	%	53-150	10.23.2020 16:40		
Toluene-D8		2037-26-5	98	%	70-130	10.23.2020 16:40		

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HEP Abo to Centurion

Sample Id: CSW-8 Lab Sample Id: 675213-017	Matrix: Soil Date Collected: 10.14.2020 13:20			Date Received:10.15.2020 10:43				
Analytical Method: TPH By SW801: Tech: DVM	5 Mod				Prep Method:	SW8015	5P	
Analyst: ARM Seq Number: 3139996		Date Prep:	10.16.2020 08:00		% Moisture: Basis:	Wet We	ight	
Parameter	Cas Number	Result R	L	Units	Analysis D	ate F	lag	Dil

rarameter	Cas Numbe	r Kesult	KL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	56.2	50.0		mg/kg	10.16.2020 16:09		1
Diesel Range Organics (DRO)	C10C28DRO	56.9	50.0		mg/kg	10.16.2020 16:09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	10.16.2020 16:09	U	1
Total TPH	PHC635	113.1	50		mg/kg	10.16.2020 16:09		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	91	%	70-130	10.16.2020 16:09		
o-Terphenyl		84-15-1	92	%	70-130	10.16.2020 16:09		

Analytical Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	AMW				
Analyst:	AMW	Date Prep:	10.23.2020 13:00	% Moisture: Basis:	Wet Weight
Seq Number:	3140539			SUB: T104704	8

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.23.2020 17:01	U	1
Toluene	108-88-3	< 0.00502	0.00502		mg/kg	10.23.2020 17:01	U	1
Ethylbenzene	100-41-4	0.00482	0.00100		mg/kg	10.23.2020 17:01		1
m,p-Xylenes	179601-23-1	0.0194	0.00201		mg/kg	10.23.2020 17:01		1
o-Xylene	95-47-6	0.0168	0.00100		mg/kg	10.23.2020 17:01		1
Total Xylenes	1330-20-7	0.0362	0.001		mg/kg	10.23.2020 17:01		1
Total BTEX		0.04102	0.001		mg/kg	10.23.2020 17:01		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane		1868-53-7	109	%	53-142	10.23.2020 17:01		
1,2-Dichloroethane-D4		17060-07-0	98	%	53-150	10.23.2020 17:01		
Toluene-D8		2037-26-5	94	%	70-130	10.23.2020 17:01		

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 675213

TRC Solutions, Inc

HEP Abo to Centurion

Analytical Method: Seq Number: MB Sample Id:	7713445-1-BLK LCS Sample					Solid 7713445-1	I-BKS			rep Meth Date Pr D Sample	rep: 10.1	0P 6.2020 3445-1-BSD	
Parameter		MB sult	Spike Amount	LCS Result	LCS %Rec	LCSD Bogult		Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		5.00	250	251	100	Result 251	%Rec 100	90-110	0	20	mg/kg	10.16.2020 19:09	
Analytical Method: Seq Number: Parent Sample Id:	Chloride by El 3139954 675138-014	PA 30	00		Matrix: nple Id:	Soil 675138-0	14 S			rep Meth Date Pr D Sample	rep: 10.1	0P .6.2020 138-014 SD	
Parameter		rent esult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	K	128	255	424	116	410	7 6 Kec 111	90-110	3	20	mg/kg	10.16.2020 19:28	Х
Analytical Method: Seq Number: Parent Sample Id:	3139954 675266-003			MS Sar	-	675266-00			MS	-	ep: 10.1 e Id: 675	.6.2020 266-003 SD	
Parameter		rent esult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1	1170	2500	4030	114	3940	111	90-110	2	20	mg/kg	10.16.2020 20:57	Х
Analytical Method: Seq Number: MB Sample Id:	TPH By SW80 3139996 7713451-1-BLH		od		Matrix: nple Id:	Solid 7713451-1	I-BKS			rep Meth Date Pr D Sample	rep: 10.1	8015P .6.2020 3451-1-BSD	
Parameter		MB	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb		50.0	1000	848	85	830	%K ec 83	70-130	2	20	mg/kg	10.16.2020 09:09	
Diesel Range Organics	(DRO) <	50.0	1000	924	92	902	90	70-130	2	20	mg/kg	10.16.2020 09:09	
Surrogate		MB 6Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		97			03		94			-130	%	10.16.2020 09:09	
o-Terphenyl		115		1	08		108		70	-130	%	10.16.2020 09:09	
Analytical Method: Seq Number:	TPH By SW80 3139996	915 M	od		Matrix: nple Id:	Solid 7713451-	I-BLK		Pi	rep Meth Date Pr		8015P 6.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	10.16.2020 08:50	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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QC Summary 675213

TRC Solutions, Inc

HEP Abo to Centurion

Analytical Method:		Prep Method: SW8015P											
Seq Number:	3139996]	Matrix:	Soil				Date Pro	ep: 10.1	6.2020	
Parent Sample Id:	675213-001			MS San	nple Id:	675213-00	01 S		MS	D Sample	e Id: 6752	213-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ns (GRO)	<49.9	997	802	80	824	82	70-130	3	20	mg/kg	10.16.2020 10:06	
Diesel Range Organics (DRO)	80.8	997	915	84	937	86	70-130	2	20	mg/kg	10.16.2020 10:06	
Surrogate					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				9	9		101		70	-130	%	10.16.2020 10:06	
o-Terphenyl				97			100			-130	%	10.16.2020 10:06	

Analytical Method:	•	С			0.1.1			P	rep Meth		5035A	
Seq Number:	3139995		1	Matrix:	Solid				Date Pr	ep: 10.1	6.2020	
MB Sample Id:	7713499-1-BLK		LCS San	nple Id:	7713499-	1-BKS		LCS	D Sample	e Id: 771	3499-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.0500	0.0498	100	0.0461	92	62-132	8	25	mg/kg	10.17.2020 01:12	
Toluene	< 0.00500	0.0500	0.0542	108	0.0474	95	66-124	13	25	mg/kg	10.17.2020 01:12	
Ethylbenzene	< 0.00100	0.0500	0.0528	106	0.0476	95	71-134	10	25	mg/kg	10.17.2020 01:12	
m,p-Xylenes	< 0.00200	0.100	0.104	104	0.0937	94	69-128	10	25	mg/kg	10.17.2020 01:12	
o-Xylene	< 0.00100	0.0500	0.0519	104	0.0477	95	72-131	8	25	mg/kg	10.17.2020 01:12	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
Dibromofluoromethane	96		9	96		99		53	8-142	%	10.17.2020 01:12	
1,2-Dichloroethane-D4	100		9	02		104		53	8-150	%	10.17.2020 01:12	
Toluene-D8	96		1	00		101		70	0-130	%	10.17.2020 01:12	

Analytical Method:	BTEX by SW 8260	С						P	rep Meth	od: SW	5035A	
Seq Number:	3140277]	Matrix:	Solid				Date Pr	ep: 10.2	21.2020	
MB Sample Id:	7713687-1-BLK		LCS San	nple Id:	7713687-1	1-BKS		LCS	D Sample	e Id: 771	3687-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.0500	0.0452	90	0.0430	86	62-132	5	25	mg/kg	10.21.2020 10:18	
Toluene	< 0.00500	0.0500	0.0483	97	0.0479	96	66-124	1	25	mg/kg	10.21.2020 10:18	
Ethylbenzene	< 0.00100	0.0500	0.0457	91	0.0471	94	71-134	3	25	mg/kg	10.21.2020 10:18	
m,p-Xylenes	< 0.00200	0.100	0.0922	92	0.0959	96	69-128	4	25	mg/kg	10.21.2020 10:18	
o-Xylene	< 0.00100	0.0500	0.0496	99	0.0471	94	72-131	5	25	mg/kg	10.21.2020 10:18	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
Dibromofluoromethane	84		1	01		89		53	-142	%	10.21.2020 10:18	
1,2-Dichloroethane-D4	87		1	03		89		53	-150	%	10.21.2020 10:18	
Toluene-D8	93		1	03		95		70	-130	%	10.21.2020 10:18	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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QC Summary 675213

TRC Solutions, Inc

HEP Abo to Centurion

Analytical Method:	BTEX by SW 8260	С						P	rep Meth	od: SW	5035A	
Seq Number:	3140386]	Matrix:	Solid				Date Pr	ep: 10.2	22.2020	
MB Sample Id:	7713755-1-BLK		LCS San	nple Id:	7713755-1	I-BKS		LCS	D Sample	e Id: 771	3755-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.0500	0.0402	80	0.0405	81	62-132	1	25	mg/kg	10.22.2020 10:34	
Toluene	< 0.00500	0.0500	0.0431	86	0.0436	87	66-124	1	25	mg/kg	10.22.2020 10:34	
Ethylbenzene	< 0.00100	0.0500	0.0425	85	0.0449	90	71-134	5	25	mg/kg	10.22.2020 10:34	
m,p-Xylenes	< 0.00200	0.100	0.0850	85	0.0877	88	69-128	3	25	mg/kg	10.22.2020 10:34	
o-Xylene	< 0.00100	0.0500	0.0437	87	0.0422	84	72-131	3	25	mg/kg	10.22.2020 10:34	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
Dibromofluoromethane	86		9	4		93		53	-142	%	10.22.2020 10:34	
1,2-Dichloroethane-D4	89		9	2		96		53	-150	%	10.22.2020 10:34	
Toluene-D8	108		9	9		96		70	-130	%	10.22.2020 10:34	

Analytical Method: Seq Number: MB Sample Id:	BTEX by SW 82600 3140465 7713823-1-BLK	Matrix: Solid LCS Sample Id: 7713823-1-BKS					Prep Method: SW5035A Date Prep: 10.22.2020 LCSD Sample Id: 7713823-1-BSD					
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.0500	0.0399	80	0.0421	84	62-132	5	25	mg/kg	10.22.2020 20:49	
Toluene	< 0.00500	0.0500	0.0406	81	0.0471	94	66-124	15	25	mg/kg	10.22.2020 20:49	
Ethylbenzene	< 0.00100	0.0500	0.0407	81	0.0465	93	71-134	13	25	mg/kg	10.22.2020 20:49	
m,p-Xylenes	< 0.00200	0.100	0.0821	82	0.0925	93	69-128	12	25	mg/kg	10.22.2020 20:49	
o-Xylene	< 0.00100	0.0500	0.0429	86	0.0464	93	72-131	8	25	mg/kg	10.22.2020 20:49	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
Dibromofluoromethane	91		1	02		92		53	-142	%	10.22.2020 20:49	
1,2-Dichloroethane-D4	98		1	06		87		53	-150	%	10.22.2020 20:49	
Toluene-D8	96		9	95		97		70	-130	%	10.22.2020 20:49	

Analytical Method: Seq Number: MB Sample Id:	BTEX by SW 82600 3140539 7713835-1-BLK	C		Matrix: nple Id:	Solid 7713835-2	1-BKS		Prep Method: SW5035A Date Prep: 10.23.2020 LCSD Sample Id: 7713835-1-BSD				
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00100	0.0500	0.0466	93	0.0413	83	62-132	12	25	mg/kg	10.23.2020 09:12	
Toluene	< 0.00500	0.0500	0.0479	96	0.0472	94	66-124	1	25	mg/kg	10.23.2020 09:12	
Ethylbenzene	< 0.00100	0.0500	0.0473	95	0.0464	93	71-134	2	25	mg/kg	10.23.2020 09:12	
m,p-Xylenes	< 0.00200	0.100	0.0949	95	0.0936	94	69-128	1	25	mg/kg	10.23.2020 09:12	
o-Xylene	< 0.00100	0.0500	0.0498	100	0.0450	90	72-131	10	25	mg/kg	10.23.2020 09:12	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
Dibromofluoromethane	95		1	00		83		53	-142	%	10.23.2020 09:12	
1,2-Dichloroethane-D4	89		1	08		83		53	-150	%	10.23.2020 09:12	
Toluene-D8	98		ç	98		99		70	-130	%	10.23.2020 09:12	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

QC Summary 675213

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TRC Solutions, Inc

HEP Abo to Centurion

Analytical Method: Seq Number: Parent Sample Id:	BTEX by SW 8260 3139995 675145-002	Matrix: 1ple Id:	Soil 675145-00	02 S		Prep Method: SW5035A Date Prep: 10.16.2020 MSD Sample Id: 675145-002 SD						
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.000996	0.0498	0.0462	93	0.0443	89	62-132	4	25	mg/kg	10.17.2020 01:55	
Toluene	< 0.00498	0.0498	0.0491	99	0.0434	88	66-124	12	25	mg/kg	10.17.2020 01:55	
Ethylbenzene	< 0.000996	0.0498	0.0450	90	0.0425	86	71-134	6	25	mg/kg	10.17.2020 01:55	
m,p-Xylenes	< 0.00199	0.0996	0.0872	88	0.0809	82	69-128	7	25	mg/kg	10.17.2020 01:55	
o-Xylene	<0.000996	0.0498	0.0446	90	0.0442	89	72-131	1	25	mg/kg	10.17.2020 01:55	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
Dibromofluoromethane			10	04		111		53	-142	%	10.17.2020 01:55	
1,2-Dichloroethane-D4			1	09		94		53	-150	%	10.17.2020 01:55	
Toluene-D8			1	07		105		70	-130	%	10.17.2020 01:55	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by SW 8260 3140277 675145-004	Matrix: Soil MS Sample Id: 675145-004 S				Prep Method: SW5035A Date Prep: 10.21.2020 MSD Sample Id: 675145-004 SD						
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00101	0.0503	0.0437	87	0.0467	94	62-132	7	25	mg/kg	10.21.2020 12:26	
Toluene	< 0.00503	0.0503	0.0448	89	0.0510	103	66-124	13	25	mg/kg	10.21.2020 12:26	
Ethylbenzene	< 0.00101	0.0503	0.0427	85	0.0486	98	71-134	13	25	mg/kg	10.21.2020 12:26	
m,p-Xylenes	0.00200	0.101	0.0885	86	0.0999	99	69-128	12	25	mg/kg	10.21.2020 12:26	
o-Xylene	0.000996	0.0503	0.0460	89	0.0513	101	72-131	11	25	mg/kg	10.21.2020 12:26	
Surrogate				IS Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
Dibromofluoromethane			1	05		104		53	-142	%	10.21.2020 12:26	
1,2-Dichloroethane-D4			9	8		108		53	-150	%	10.21.2020 12:26	
Toluene-D8			9	9		105		70	-130	%	10.21.2020 12:26	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by SW 82600 3140386 675213-012	C		Matrix: nple Id:	Soil 675213-01	12 S			rep Meth Date Pr D Sample	ep: 10.2	5035A 22.2020 213-012 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.000996	0.0498	0.0463	93	0.0423	85	62-132	9	25	mg/kg	10.22.2020 11:06	
Toluene	< 0.00498	0.0498	0.0494	99	0.0442	89	66-124	11	25	mg/kg	10.22.2020 11:06	
Ethylbenzene	< 0.000996	0.0498	0.0477	96	0.0439	88	71-134	8	25	mg/kg	10.22.2020 11:06	
m,p-Xylenes	< 0.00199	0.0996	0.101	101	0.0906	91	69-128	11	25	mg/kg	10.22.2020 11:06	
o-Xylene	< 0.000996	0.0498	0.0511	103	0.0461	92	72-131	10	25	mg/kg	10.22.2020 11:06	
Surrogate				IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
Dibromofluoromethane			1	05		108		53	-142	%	10.22.2020 11:06	
1,2-Dichloroethane-D4			ç	99		90		53	-150	%	10.22.2020 11:06	
Toluene-D8			ç	96		95		70	-130	%	10.22.2020 11:06	

 $\begin{array}{ll} MS/MSD \mbox{ Percent Recovery} & [D] = 100^*(C-A) \ / \ B \\ Relative \mbox{ Percent Difference} & RPD = 200^* \ | \ (C-E) \ / \\ LCS/LCSD \ Recovery & [D] = 100^* \ (C) \ / \ [B] \\ Log \ Difference & Log \ Diff. = Log(Sam \ Data \ Data\ \ Data \ Data\ \ Data\$

 $\begin{array}{l} \text{[D]} = 100 \ (\text{C} + \text{D}) \ (\text{C} + \text{D}) \ | \\ \text{[D]} = 100 \ (\text{C}) \ (\text{C} + \text{D}) \ | \\ \text{[D]} = 100 \ (\text{C}) \ (\text{B}) \\ \text{Log Diff.} = \text{Log(Sample Duplicate)} - \text{Log(Original Sample)} \end{array}$

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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QC Summary 675213

TRC Solutions, Inc

HEP Abo to Centurion

Analytical Method: Seq Number: Parent Sample Id:	BTEX by SW 82600 3140465 675851-004	С		Matrix: ple Id:	Soil 675851-00	04 S			rep Methe Date Pr D Sample	ep: 10.2	5035A 22.2020 851-004 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.0273	1.36	1.16	85	1.14	84	62-132	2	25	mg/kg	10.22.2020 21:31	
Toluene	< 0.136	1.36	1.17	86	1.21	89	66-124	3	25	mg/kg	10.22.2020 21:31	
Ethylbenzene	0.311	1.36	1.45	84	1.48	86	71-134	2	25	mg/kg	10.22.2020 21:31	
m,p-Xylenes	0.925	2.73	3.25	85	3.27	86	69-128	1	25	mg/kg	10.22.2020 21:31	
o-Xylene	0.505	1.36	1.72	89	1.80	95	72-131	5	25	mg/kg	10.22.2020 21:31	
Surrogate			M %I	IS Rec	MS Flag	MSE %Re			imits	Units	Analysis Date	
Dibromofluoromethane			9	6		103		53	-142	%	10.22.2020 21:31	
1,2-Dichloroethane-D4			9	3		93		53	-150	%	10.22.2020 21:31	
Toluene-D8			9	8		98		70	-130	%	10.22.2020 21:31	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by SW 82600 3140539 675213-009	С		Matrix: nple Id:	Soil 675213-009 S		Prep Metho Date Pre		5035A 23.2020	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec		Limits		Units	Analysis Date	Flag
Benzene	< 0.000996	0.0498	0.0392	79		62-132		mg/kg	10.23.2020 11:14	
Toluene	< 0.00498	0.0498	0.0733	147		66-124		mg/kg	10.23.2020 11:14	Х
Ethylbenzene	0.00199	0.0498	0.0412	79		71-134		mg/kg	10.23.2020 11:14	
m,p-Xylenes	0.00667	0.0996	0.0919	86		69-128		mg/kg	10.23.2020 11:14	
o-Xylene	0.00244	0.0498	0.0431	82		72-131		mg/kg	10.23.2020 11:14	
Surrogate				1S Rec	MS Flag		Limits	Units	Analysis Date	
Dibromofluoromethane			1	11			53-142	%	10.23.2020 11:14	
1,2-Dichloroethane-D4			1	00			53-150	%	10.23.2020 11:14	
Toluene-D8			1	02			70-130	%	10.23.2020 11:14	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-A}) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-E}) \ / \ (C\text{+E}) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

Page 31 of 36

Image: Press, IX (915) 585-3443, Lubbock, TX (806) 794-1296 WWX.XENCO.COP Image: Problem Bill to: (if different) WWX.XENCO.COP Image: Program: UST/PST Company Name: Program: UST/PST Image: Program: UST/PST Company Name: Program: UST/PST Image: Program: UST/PST Company Name: Program: UST/PST Image: Program: UST/PST PRP[] Brow State of Project: Image: Program: UST/PST Program: UST/PST PRP[] Brow Image: Program: UST/PST Propring: Level II Level III Image: Program: UST/PST PRP[] Brow State of Project: Image: Program: UST/PST Propring: Level III Program: UST/PST Image: Propring: Level II Propring: Level III	T Temp Blank: Yes No Wet loc: Yes No It Xes No Thermometer ID: It Ves No Ves No NiA Temperature Reading: It It Parameters 8015M	2 0101 2 2 0101 2 1 2 0 001 201ml 0 1 2 0 0 0 0 1 2 0 0 0 0 0 0 0 0 0 0 0	1030	-1 1050	1100 NA	2 22	0(7)1 2 1	a Sr TI Sn 1 245.1/7470	a Sr TI Sn (245.1/7470 ,	10 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn No Ni K Se Ag SiO2 Na Sr TI Sn 10 Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Ca Cr Co Cu Fe BN Mo Ni K Se Ag SiO2 Na Sr TI Sn orument and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions Min Mo Ni Se Ag Si/2 1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/		IS Aland TX 19705 Abo te (Enturion 4:3 Teinert Tempelank: Yes (no) Yes No (NA) Correction Fa es No (NA) Correction Fa (s No (NA) Correction Fa Corrected Ter Corrected Ter Corrected Ter Natrix Sampled 1 10 10 10 10 10 10 10 10 10 1	Bill to: (ift Company Address: City, State eccived by 4:30 City, State city, City,	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Parameters Pers. ANALYSIS Parameters Para	Work Order No:
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: 08/25/2020 Rev. 2020

Envirunment Teston	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1266 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199		15212
		www.xenco.com Page	
V Name: TRC '		Work Order Comments	nts
Address: 10 Desta Dr., Ste 150E Address:		ST	RRC Superfund
ate ZIP: Midland, TX 79705		State of Project:	E
5-6730 Email:			
11			Other:
Project Number: 390412 Project Number: 1911 Augustia	ANALYSIS REQUEST		Preservative Codes
Artesia, NM Due Date:		None: NO	DI Water: H ₂ O
Teinert		Cool: Cool	Q
Temp Blank: Yes No Wet Ice: Yes No tters		H ₂ SO ₄ ; H ₂	NaOH: Na
act: Yes No Thermometer ID:		H ₃ PO ₄ : HP	0
Yes No N/A Correction Factor:		NaHSO4: NABIS	NABIS
veals: Yes No N/A Temperature Reading: 2.3	de	Na ₂ S ₂ O ₃ : NaSO ₃	NaSO ₃
Corrected Temperature: 2, 8	0110	Zn Acetate NaOH+Asc	Zn Acetate+NaOH: Zn
Sampled Sampled Depth Comp Cont		2	
(2.) S 10/14/20 2' G 1 1 1		Samp	sample comments
(2') 1230 2'			
CELL C ILLO NA C			
16			
CSW-8 + + 1210 + 11 + 11			
Circle Method(s) and Metal(s) to be analyzed TCI p / Spi p 6040.	B Cd Ca Cr Co Cu Fe Pb Mg	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn	n U V Zn
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns transfer to the contractory is assigned to the contractory is aspecific tothecontrectory is assigned to the contrectory is as	Xenco, its affiliates and subcontractors it asc	e Ag II U Hg: 1631/245.1/7470 /7471	0 /7471
of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a sharing any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control Relinquished hy: /Sinneture/ // // In-	as incurred by the client if such losses are due ins Xenco, but not analyzed. These terms will b	igns standard terms and conditions to circumstances beyond the control <u>e enforced unless previously negotiated</u> .	
Net A Received by: (Signature) Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
shard with the second second			
	7		
Inter-Office Shipment

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IOS Number : **71869**

Date/Time	e: 10.1	15.2020	Created by:	Brianna Te	el	Please send report to:	Jessica Kram	er		
Lab# Fron	n: Mi e	dland	Delivery Pr	iority:		Address:	1211 W. Flor	rida Av	e	
Lab# To:	Ho	uston	Air Bill No.	: 771814028	540	E-Mail:	jessica.krame	er@eur	ofinset.com	
Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
675213-001	S	CS-1 (8')	10.14.2020 10:00	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-002	S	CS-2 (3')	10.14.2020 10:10	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-003	S	CS-3 (2')	10.14.2020 10:20	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-004	S	CSW-1	10.14.2020 10:30	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-005	S	CSW-2	10.14.2020 10:40	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-006	S	CSW-3	10.14.2020 10:50	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-007	S	Duplicate-1	10.14.2020 00:00	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-008	S	Stockpile	10.14.2020 11:00	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-009	S	CS-4 (2')	10.14.2020 12:00	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-010	S	CS-5 (2')	10.14.2020 12:10	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-011	S	CS-6 (2')	10.14.2020 12:20	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-012	S	CS-7 (2')	10.14.2020 12:30	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-013	S	CSW-4	10.14.2020 12:40	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-014	S	CSW-5	10.14.2020 12:50	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-015	S	CSW-6	10.14.2020 13:00	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-016	S	CSW-7	10.14.2020 13:10	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	
675213-017	S	CSW-8	10.14.2020 13:20	SW8260CBTEX	BTEX by SW 8260C	10.21.2020	10.28.2020	JKR	BZ BZME EBZ XYLENE	

Inter Office Shipment or Sample Comments:

Relinquished By:

Brianna Teel

Date Relinquished: 10.15.2020

Received By:

Lypote

Hypatia Keys

Date Received:

10.16.2020

Cooler Temperature: 1.3

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Final 1.001

Eurofins Xenco, LLC



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Inter Office Report- Sample Receipt Checklist

Sent To: Houston IOS #: 71869

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : hou-203

Sent By:	Brianna Teel	Date Sent:	10.15.2020 11.52 AM
Received By:	Hypatia Keys	Date Received:	10.16.2020 01.42 PM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.3	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received with appropriate temperature?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 *Custody Seals Signed and dated for Containers/coolers	Yes	
#6 *IOS present?	Yes	
#7 Any missing/extra samples?	No	
#8 IOS agrees with sample label(s)/matrix?	Yes	
#9 Sample matrix/ properties agree with IOS?	Yes	
#10 Samples in proper container/ bottle?	Yes	
#11 Samples properly preserved?	Yes	
#12 Sample container(s) intact?	Yes	
#13 Sufficient sample amount for indicated test(s)?	Yes	
#14 All samples received within hold time?	Yes	

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by:

Leynter Hery Hypatia Keys

Date: 10.16.2020

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 10.15.2020 10.43.00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 675213	Temperature Measuring device used : IR8
Sample R	eceipt Checklist Comments
#1 *Temperature of cooler(s)?	2.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6*Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Νο
#9 Chain of Custody signed when relinquished/ received	I? Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes Xenco Stafford-BTEX8260
#18 Water VOC samples have zero headspace?	Ν/Α

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Button Tall Brianna Teel

Date: 10.15.2020

Checklist reviewed by: Jession Venner

Jessica Kramer

Date: 10.16.2020

eurofins Environment Testing Xenco

Project Id:

Project Location:

Contact:

390412

Cindy Crain

Artesia NM

Certificate of Analysis Summary 678749

TRC Solutions, Inc, Midland, TX

Project Name: HEP Abo to Centunion

Date Received in Lab:Mon 11.23.2020 10:05Report Date:11.30.2020 10:55Project Manager:Jessica Kramer

	Lab Id:	678749-00	01	678749-00)2	678749-00)3	678749-00	04		
Analysis Requested	Field Id:	CS-2 (5')		CS-3 (5'))	CS-4 (5')		CSW-8 (2.5	')		
Analysis Requesieu	Depth:	5- ft		5- ft		5- ft		2.5- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	11.20.2020 1	4:00	11.20.2020 1	4:10	11.20.2020 1	4:20	11.20.2020	14:30		
TPH by SW8015 Mod	Extracted:	11.24.2020 1	7:00	11.24.2020 1	7:00	11.24.2020 1	7:00	11.24.2020	17:00		
	Analyzed:	11.25.2020 (05:27	11.25.2020 0	6:26	11.25.2020 0	6:45	11.25.2020 (07:05		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0		
Diesel Range Organics (DRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	<49.9	49.9	<50.0	50.0		
Total TPH		<50	50	<49.8	49.8	<49.9	49.9	<50	50		

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

Page 1 of 13



Analytical Report 678749

Page 113 of 162

for

TRC Solutions, Inc

Project Manager: Cindy Crain

HEP Abo to Centunion

390412

11.30.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

11.30.2020
Project Manager: Cindy Crain
TRC Solutions, Inc
2057 Commerce
Midland, TX 79703

Reference: Eurofins Xenco, LLC Report No(s): 678749 HEP Abo to Centunion Project Address: Artesia NM

Cindy Crain:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678749. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678749 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 678749

TRC Solutions, Inc, Midland, TX

HEP Abo to Centunion

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS-2 (5')	S	11.20.2020 14:00	5 ft	678749-001
CS-3 (5')	S	11.20.2020 14:10	5 ft	678749-002
CS-4 (5')	S	11.20.2020 14:20	5 ft	678749-003
CSW-8 (2.5')	S	11.20.2020 14:30	2.5 ft	678749-004

eurofins Environment Testing Xenco

CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: HEP Abo to Centunion

Project ID:390412Work Order Number(s):678749

Report Date: 11.30.2020 Date Received: 11.23.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3143307 TPH by SW8015 Mod Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7715934-1-BKS,7715934-1-BLK,678749-003,678749-002,678749-004,678749-001. Xenco

Diesel Range Organics (DRO)

Environment Testing

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11.25.2020 05:27

Certificate of Analytical Results 678749

TRC Solutions, Inc, Midland, TX

HEP Abo to Centunion

Sample Id: CS-2 (5')		Matrix:	Soil		Date Received:	11.23.2020 1	0:05
Lab Sample Id: 678749-001		Date Coll	ected: 11.20.2020 14:00		Sample Depth:	5 ft	
Analytical Method: TPH by SW801	5 Mod				Prep Method:	SW8015P	
Tech: DVM							
Analyst: ARM		Date Prep	: 11.24.2020 17:00		% Moisture: Basis:	Wet Weight	
Seq Number: 3143307					Dasis.	wet weight	
Parameter	Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.25.2020 05:	27 U	1

Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.	0 50.0		mg/kg	11.25.2020 05:27	U	1
Total TPH	PHC635	<5	0 50		mg/kg	11.25.2020 05:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-130	11.25.2020 05:27		
o-Terphenyl		84-15-1	163	%	70-130	11.25.2020 05:27	**	

50.0

mg/kg

< 50.0

C10C28DRO

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Certificate of Analytical Results 678749

TRC Solutions, Inc, Midland, TX

HEP Abo to Centunion

Parameter		Cas Number	Result	RL		Units	Analysis D		Flag	Dil
Seq Number:	3143307						Basis:	Wet	Weight	
	ARM		Date Pr	ep:	11.24.2020 17:00		% Moisture:			
Tech:	DVM									
Analytical Met	hod: TPH by SW8015	Mod					Prep Method:	SW8	8015P	
Lab Sample Id:	678749-002		Date Co	ollected	1:11.20.2020 14:10		Sample Depth	n: 5 ft		
Sample Id:	CS-3 (5')		Matrix:		Soil		Date Receive	d:11.2	3.2020 10	:05

Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	11.25.2020 06:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	11.25.2020 06:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	11.25.2020 06:26	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	11.25.2020 06:26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-130	11.25.2020 06:26		
o-Terphenyl		84-15-1	161	%	70-130	11.25.2020 06:26	**	

TRC Solutions, Inc, Midland, TX

HEP Abo to Centunion

Parameter		Cas Number	Result	RL	Units	Analysis D		Flag	Dil
Seq Number:			Date Pre	p. 11.24.2020 17	.00	Basis:	Wet V	Weight	
Tech: Analyst:	DVM ARM		Date Pre	n: 11.24.2020 17	·00	% Moisture:			
Analytical M	ethod: TPH by SW8015	5 Mod				Prep Method:	SW80)15P	
Lab Sample I	d: 678749-003		Date Co	llected: 11.20.2020 14	:20	Sample Depth	n: 5 ft		
Sample Id:	CS-4 (5')		Matrix:	Soil		Date Receive	d:11.23	.2020 10:	:05

Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	11.25.2020 06:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	11.25.2020 06:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	11.25.2020 06:45	U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	11.25.2020 06:45	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	88	%	70-130	11.25.2020 06:45		
o-Terphenyl		84-15-1	147	%	70-130	11.25.2020 06:45	**	

TRC Solutions, Inc, Midland, TX

HEP Abo to Centunion

Sample Id: CSW-8 (2.5')		Matrix:	Soil		Date Received:11.2	3.2020 10	:05
Lab Sample Id: 678749-004		Date Colle	cted: 11.20.2020 14:30		Sample Depth: 2.5 f	ft	
Analytical Method: TPH by SW801	5 Mod				Prep Method: SW8	8015P	
Tech: DVM							
Analyst: ARM		Date Prep:	11.24.2020 17:00		% Moisture: Basis: Wet	Weight	
Seq Number: 3143307					Dasis. Wet	weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.25.2020 07:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.25.2020 07:05	U	1

Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	0 50.0		mg/kg	11.25.2020 07:05	U	1
Total TPH	PHC635	<50	0 50		mg/kg	11.25.2020 07:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
~ ~ ~ ~ 8 ~ ~ ~ 8 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Cus Humber	/u Recovery	Onus	Linno	That you but	Tiag	
1-Chlorooctane		111-85-3	96	%	70-130	11.25.2020 07:05	Tiag	

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Xenco

Environment Testing

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TRC Solutions, Inc

HEP Abo to Centunion

Analytical Method: Seq Number: MB Sample Id:	TPH by S 3143307 7715934-1		od		Matrix: nple Id:	Solid 7715934-	1-BKS			rep Meth Date Pr D Sample	ep: 11.2	8015P 24.2020 5934-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocart	oons (GRO)	<50.0	1000	977	98	989	99	70-130	1	20	mg/kg	11.25.2020 04:48	
Diesel Range Organics	(DRO)	<50.0	1000	1030	103	1070	107	70-130	4	20	mg/kg	11.25.2020 04:48	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		93		1	15		116	i	70	-130	%	11.25.2020 04:48	
o-Terphenyl		159	**	1	82	**	90		70	-130	%	11.25.2020 04:48	

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8	3015P	
Seq Number:	3143307	Matrix:	Solid	Date Prep:	11.2	4.2020	
		MB Sample Id:	7715934-1-BLK				
Parameter		MB Result		Ŭ	J nits	Analysis Date	Flag

Analytical Method:	TPH by S	W8015 M	od						Pı	rep Meth	od: SW	8015P	
Seq Number:	3143307				Matrix:	Soil				Date Pr	ep: 11.2	24.2020	
Parent Sample Id:	678749-00	1		MS San	nple Id:	678749-00	01 S		MS	D Sample	e Id: 678	749-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<49.8	996	955	96	1010	101	70-130	6	20	mg/kg	11.25.2020 05:46	
Diesel Range Organics	(DRO)	<49.8	996	1040	104	1090	109	70-130	5	20	mg/kg	11.25.2020 05:46	
Surrogate					1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	17		97		70	-130	%	11.25.2020 05:46	
o-Terphenyl				8	31		93		70	-130	%	11.25.2020 05:46	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Page 11 of 13

Revised Date: 08/25/2020 Rev. 2020.2		
	5	5
	11/25/20 12	CALLANT WELVIER
(Signature) Received by: (Signature) Date/Time	Date/Time Relinquished by: (Sign	Relinquished by: (Signature)
s are due to circumstances beyond the control rms will be enforced unless previously negotiated.	sample submitted to Eurofins Xenco, but not analyzed. These to	of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.
vrs. It assigns standard terms and conditions	client company to Eurofins Xenco, its affiliates and subcontracts	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any reconstitute.
ריב דע אשן אחח אם או K Se Ag SiO ₂ Na Sr Ti Sn U V Zn In Mo Ni Se Ag Ti U Hg:1631/245.1/7470 /7471	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mi	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8R(
		Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11
	WW	(C-2) V V V 1430 2.5 V
		L) , S 00H1 Meetin S (, C) 2-5)
Sample Comments	cont	d Sampled Depth
NaOH+Ascorbic Acid: SAPC		Date Time
Zn Acetate+NaOH: Zn		Corrected Temperature: 3
Na ₂ S ₂ O ₃ : NaSO ₃		Sample Custody Seals: Yes No. N/A Temperature Reading: 0.5
	SO	Act Ves No Thermometer ID:
H BO LLD		Blank: Yes Ao
HCL: HC HNO ₃ : HN		Rinert
		Arthonia, NM Due Date:
Preservati	Pres ANALYSIS REQUES	en 390412 2001
		Name: HEP Abon to Contrindon Tum
	Misti	-6730 Email:
		1× 19705
State of Project:		Address: 10 Dester Dr. Ste, 150 E Address:
	99	
	. (1	Project Manager: Crochy Crochy Bill to: (If different)
Dane		
Work Order No: 678749	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3100	Xenco Kenco Hou
	Chain of Custody	

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC					
Date/ Time Received: 11.23.2020 10.05.00 AM	Air and Metal samples Acceptable Range: Ambient					
Work Order #: 678749	Temperature Measuring device used : IR8					
Sample Recei	pt Checklist Comments					
#1 *Temperature of cooler(s)?	3					
#2 *Shipping container in good condition?	Yes					
#3 *Samples received on ice?	Yes					
#4 *Custody Seals intact on shipping container/ cooler?	N/A					
#5 Custody Seals intact on sample bottles?	N/A					
#6*Custody Seals Signed and dated?	N/A					
#7 *Chain of Custody present?	Yes					
#8 Any missing/extra samples?	No					
#9 Chain of Custody signed when relinquished/ received?	Yes					
#10 Chain of Custody agrees with sample labels/matrix?	Yes					
#11 Container label(s) legible and intact?	Yes					
#12 Samples in proper container/ bottle?	Yes					
#13 Samples properly preserved?	Yes					
#14 Sample container(s) intact?	Yes					
#15 Sufficient sample amount for indicated test(s)?	Yes					
#16 All samples received within hold time?	Yes					
#17 Subcontract of sample(s)?	N/A					
#18 Water VOC samples have zero headspace?	N/A					

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Billion Teel

Date: 11.23.2020

Checklist reviewed by: Jession Venner

Jessica Kramer

Date: 11.25.2020

eurofins Environment Testing Xenco

Project Id:

Project Location:

Contact:

390412

Cindy Crain

Artesia, NM

Certificate of Analysis Summary 682120

TRC Solutions, Inc, Midland, TX

Project Name: HEP Abo + Centurion

 Date Received in Lab:
 Mon 12.21.2020 16:48

 Report Date:
 12.30.2020 07:50

 Project Manager:
 Jessica Kramer

	Lab Id:	682120-00	01	682120-00)2	682120-00)3	682120-00	04		
Analysis Requested	Field Id:	CS-6a (2)	CS-5a (2')	CSW-4a		CSW-8a			
Analysis Requesieu	Depth:	2- ft		2- ft							
	Matrix:	SOIL	SOIL		SOIL		SOIL				
	Sampled:	12.21.2020 (12.21.2020 09:00		9:10	12.21.2020 0	9:20	12.21.2020 ()9:30		
TPH by SW8015 Mod	Extracted:	12.28.2020	12.28.2020 16:00		12.28.2020 16:00		6:00	12.28.2020 16:00			
	Analyzed:	12.29.2020 ()3:37	12.29.2020 03:59		12.29.2020 04:21		12.29.2020 04:43			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0	<49.9	49.9	<49.9	49.9		
Diesel Range Organics (DRO)		241	49.8	1970	50.0	222	49.9	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	193	50.0	55.7	49.9	<49.9	49.9		
Total TPH		241	49.8	2163	50	277.7	49.9	<49.9	49.9		

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

Page 1 of 13



Analytical Report 682120

for

TRC Solutions, Inc

Project Manager: Cindy Crain

HEP Abo + Centurion 390412

12.30.2020

Collected By: Client



1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

12.30.2020 Project Manager: **Cindy Crain TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: Eurofins Xenco, LLC Report No(s): **682120 HEP Abo + Centurion** Project Address: Artesia, NM

Cindy Crain:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 682120. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 682120 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

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Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 682120

HEP Abo + Centurion

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CS-6a (2')	S	12.21.2020 09:00	2 ft	682120-001
CS-5a (2')	S	12.21.2020 09:10	2 ft	682120-002
CSW-4a	S	12.21.2020 09:20		682120-003
CSW-8a	S	12.21.2020 09:30		682120-004

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CASE NARRATIVE

Client Name: TRC Solutions, Inc Project Name: HEP Abo + Centurion

Project ID:390412Work Order Number(s):682120

Report Date: 12.30.2020 Date Received: 12.21.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3146247 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 682353-021 S,682353-021 SD,682120-002,682120-003.

Surrogate 1-Chlorooctane recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7718035-1-BSD,682353-021 SD,682353-021 SD,682120-003.

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TRC Solutions, Inc, Midland, TX

HEP Abo + Centurion

Sample Id: CS-6a (2') Lab Sample Id: 682120-001		Matrix: Date Collec	Soil ted: 12.21.2020 09:00		Date Received:12 Sample Depth: 2		:48
Analytical Method: TPH by SW801	5 Mod				Prep Method: S	W8015P	
Tech:DVMAnalyst:DVMSeq Number:3146247		Date Prep:	12.28.2020 16:00		% Moisture: Basis: W	Vet Weight	
Parameter	Cas Number	Result]	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.29.2020 03:3	7 U	1
Diesel Range Organics (DRO)	C10C28DRO	241	49.8	mg/kg	12.29.2020 03:3	7	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.29.2020 03:37	7 U	1

Total TPH	PHC635	241	49.8		mg/kg	12.29.2020 03:37		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-130	12.29.2020 03:37		
o-Terphenyl		84-15-1	108	%	70-130	12.29.2020 03:37		

TRC Solutions, Inc, Midland, TX

HEP Abo + Centurion

Sample Id: CS-5a (2')		Matrix:	Soil		Date Received:12.2	1.2020 16	5:48
Lab Sample Id: 682120-002		Date Colle	ected: 12.21.2020 09:10		Sample Depth: 2 ft		
Analytical Method: TPH by SW80	15 Mod				Prep Method: SW8	3015P	
Tech: DVM Analyst: DVM Seg Number: 3146247		Date Prep:	12.28.2020 16:00		% Moisture: Basis: Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.29.2020 03:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	1970	50.0	mg/kg	12.29.2020 03:59		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	193	50.0	mg/kg	12.29.2020 03:59		1
Total TPH	PHC635	2163	50	mg/kg	12.29.2020 03:59		1

	1110055	2100	50		ing/kg	12.29.2020 03.39		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	108	%	70-130	12.29.2020 03:59		
o-Terphenyl		84-15-1	164	%	70-130	12.29.2020 03:59	**	

TRC Solutions, Inc, Midland, TX

HEP Abo + Centurion

Sample Id: CSW-4a Lab Sample Id: 682120-003		Matrix: Date Colle	Soil cted: 12.21.2020 09:20		Date Received:12.2	1.2020 16	5:48
Analytical Method: TPH by SW801	5 Mod				Prep Method: SW8	8015P	
Tech:DVMAnalyst:DVMSeq Number:3146247		Date Prep:	12.28.2020 16:00		% Moisture: Basis: Wet	Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.29.2020 04:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	222	49.9	mg/kg	12.29.2020 04:21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	55.7	49.9	mg/kg	12.29.2020 04:21		1
Total TPH	PHC635	277.7	49.9	mg/kg	12.29.2020 04:21		1

	 			8			-
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	145	%	70-130	12.29.2020 04:21	**	
o-Terphenyl	84-15-1	153	%	70-130	12.29.2020 04:21	**	

Motor Oil Range Hydrocarbons (MRO)

Certificate of Analytical Results 682120

TRC Solutions, Inc, Midland, TX

HEP Abo + Centurion

Sample Id:CSW-8aLab Sample Id:682120-004		Matrix: Date Col	Soil llected: 12.21.2020 09:3	80	Date Received:12.	21.2020 16	:48
Analytical Method: TPH by SW801	5 Mod				Prep Method: SW	/8015P	
Tech: DVM							
Analyst: DVM		Date Pre	p: 12.28.2020 16:0	00	% Moisture: Basis: We	t Weight	
Seq Number: 3146247						a weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.29.2020 04:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.29.2020 04:43	U	1

Total TPH	PHC635	<49.9	9 49.9		mg/kg	12.29.2020 04:43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	118	%	70-130	12.29.2020 04:43		
o-Terphenyl		84-15-1	119	%	70-130	12.29.2020 04:43		

49.9

<49.9

PHCG2835

12.29.2020 04:43

mg/kg

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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	for this compound.			

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Environment Testing

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QC Summary 682120

TRC Solutions, Inc

HEP Abo + Centurion

Analytical Method: Seq Number: MB Sample Id:	TPH by S 3146247 7718035-1		od	LCS San	Matrix: 1ple Id:		I-BKS			rep Methe Date Pr D Sample	ep: 12.2	8015P 28.2020 8035-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocart	oons (GRO)	< 50.0	1000	1030	103	1030	103	70-130	0	20	mg/kg	12.29.2020 00:40	
Diesel Range Organics	(DRO)	<50.0	1000	1090	109	1100	110	70-130	1	20	mg/kg	12.29.2020 00:40	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Ree			imits	Units	Analysis Date	
1-Chlorooctane		96		1	22		134	**	70	-130	%	12.29.2020 00:40	
o-Terphenyl		103		1	24		126		70	-130	%	12.29.2020 00:40	

Analytical Method: Seq Number:	TPH by SW8015 Mod 3146247	Matrix: MB Sample Id:	Solid 7718035-1-BLK	Prep Method: Date Prep:			
Parameter Motor Oil Range Hydrocarl	pons (MRO)	MB Result <50.0			J nits ng/kg	Analysis Date 12.29.2020 00:18	Flag

Analytical Method:	TPH by SV	W8015 M	od						Pi	rep Meth	od: SW	8015P	
Seq Number:	3146247				Matrix:	Soil				Date Pr	rep: 12.2	28.2020	
Parent Sample Id:	682353-02	1		MS San	nple Id:	682353-02	21 S		MS	D Sampl	e Id: 682	353-021 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<49.9	997	1370	137	1350	136	70-130	1	20	mg/kg	12.29.2020 01:45	Х
Diesel Range Organics	(DRO)	<49.9	997	1140	114	1100	110	70-130	4	20	mg/kg	12.29.2020 01:45	
Surrogate					1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	45	**	140	**	70	-130	%	12.29.2020 01:45	
o-Terphenyl				1	31	**	140	**	70	-130	%	12.29.2020 01:45	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference $\label{eq:c-A} \begin{array}{l} [D] = 100^{*}(C\text{-}A) \ / \ B \\ RPD = 200^{*} \ | \ (C\text{-}E) \ / \ (C\text{+}E) \ | \\ [D] = 100^{*} \ (C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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440 Work Order No:O

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Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient					
Date/ Time Received: 12.21.2020 04.48.00 PM						
Work Order #: 682120	Temperature Measuring of	levice used : IR8				
Sample Recei	ot Checklist	Comments				
#1 *Temperature of cooler(s)?	10.1					
#2 *Shipping container in good condition?	Yes					
#3 *Samples received on ice?	Yes	Cooling in progress				
#4 *Custody Seals intact on shipping container/ cooler?	N/A					
#5 Custody Seals intact on sample bottles?	N/A					
#6*Custody Seals Signed and dated?	N/A					
#7 *Chain of Custody present?	Yes					
#8 Any missing/extra samples?	No					
#9 Chain of Custody signed when relinquished/ received?	Yes					
#10 Chain of Custody agrees with sample labels/matrix?	Yes					
#11 Container label(s) legible and intact?	Yes					
#12 Samples in proper container/ bottle?	Yes					
#13 Samples properly preserved?	Yes					
#14 Sample container(s) intact?	Yes					
#15 Sufficient sample amount for indicated test(s)?	Yes					
#16 All samples received within hold time?	Yes					
#17 Subcontract of sample(s)?	N/A					
#18 Water VOC samples have zero headspace?	N/A					

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Ballot Tal Brianna Teel

Date: 12.21.2020

Checklist reviewed by: Jession Venner

Jessica Kramer

Date: 12.23.2020



Appendix E – Data from Centurion Facility 2008 Annual Groundwater Monitoring Report



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TABLE 1 GROUNDWATER ELEVATION DATA CENTURION PIPELINE L.P. - ARTESIA TANK FARM ARTESIA, NEW MEXICO

LOCATION	DATE	CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PRODUCT THICKNESS	GROUND WATER ELEVATION
LOCITION	DATE	EDETATION	INODUCI	WALLER	THICKITESS	ELECTION
MW-3	05/21/93	3447.67	16,45	17.81	1,36	3431.02
	11/17/94		13.07	13.65	0,58	3434.51
	02/09/95		13.75	14.32	0.57	3433.83
	06/16/95		15.20	15.84	0.64	3432.37
1	10/02/95	[10.69	11.43	0.74	3436.87
	11/26/95	i	9.69	10,41	0.72	3437.87
	04/16/96	}	9,58	9.63	0.05	3438,08
	07/06/96		11.70	11.80 8.75	0.10	3435.96
	09/30/96 01/10/97		8.71	8.75	0.04	3438.95
	04/02/97		10.33 11.36	11.40	0.07 0.06	3437.33 3436.30
	07/10/97		13.02	13.10	0.08	3434,64
	10/17/97		13.02	13.24	0.02	3434,45
	01/18/98		10.68	10.78	0.10	3436,98
	04/18/98	1	11.47	11.55	0.08	3436.19
[05/29/98	(12.34	12,45	0.11	3435.31
	06/30/98		12,70	12.80	0.10	3434.96
	07/23/98		13.95	14.02	0.07	3433,71
ļ	08/19/98	J	15.08	15.15	0.07	3432.58
	12/05/98		16.40	16.50	0,10	3431,26
	04/01/99	ĺ	16.00	16.08	0.08	3431.66
	06/03/99		14.35	14.38	0.03	3433.32
	09/16/99		7.82	7.87	0.05	3439.84
	01/08/00	1	8.50	8.60	0.10	3439,16
	06/08/00		6,98	7.05	0.07	3440.68
	07/24/01		6,63	6.73	0.10	3441.03
	03/12/02	}	5,43	5.50	0.07	3442.23
	07/18/03 03/29/04		Not gauged			
	08/17/05		Not gauged 5.20	5.28	0.08	3442.46
	10/10/06	1	Not gauged	5.20	0.08	5442,40
	08/12/08	}	Not gauged			
		}	00			
MV/-3A	10/10/01	ND	NP	7.34	NA	ND
(MW-3RS)	03/12/02		NP	5.24	NA	ND
(MW-3C)	07/18/03	1	NP	6.34	NA	ND
	03/29/04		NP	4,50	NA	ND
	08/17/05	1	NP	3.70	NA	ND
	10/10/06		NP	3.18	NA	ND
	08/12/08		NP	3.32	NA	ND
MW-3B	10/10/01	ND	NP	7,47	NA	ND
(MW-3R)	03/12/02	ļ	NP	5.62	NA	ND
	07/18/03		NP	6.81	NA	ND
	03/29/04		Not gauged			
	08/17/05	1	NP	4.82	NA	ND
	10/10/06	}	NP	3.86	NA	ND
	08/12/08	ł	NP	3.90	NA	ND
MW-4	11/17/04	ND	ND	28.28	NA	ND
JVJ YY -4	11/17/94 02/09/95		NP NP	28.28	NA NA	ND ND
	02/09/95	1	NP NP	28.51	NA NA	ND ND
	10/02/95	1	NP NP	29.38	NA	ND
	11/26/95	1	NP	22.61	NA	ND
	04/16/96		NP	20.63	NA	ND
	07/06/96	1	NP	26.44	NA	ND
	09/30/96	1	NP	21.88	NA	ND
	01/10/97		NP	25.24	NA	ND
	04/02/97	1	NP	25.49	NA	ND
	04/18/98	1	NP	25.02	NA	ND
	12/05/98		29.52	29.70	0.18	ND
	04/01/99	1	28.65	28.67	0.02	ND
	06/03/99		NP	26.48	NA	ND
	09/20/99]	NP	18.85	NA	ND
	01/08/00		NP	19.30	NA	ND
	06/08/00		NP	18.46 16.93	NA NA	ND
	07/24/01 03/12/02]	NP NP	16.93	NA NA	ND ND
	03/12/02	1	141		INA I	
	06/19/03		Plugged and A	handoned		

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TABLE I GROUNDWATER ELEVATION DATA CENTURION PIPELINE L.P. - ARTESIA TANK FARM ARTESIA, NEW MEXICO

		CASING	DEPTH TO	DEPTH TO	PRODUCT	GROUND WATER
LOCATION	DATE	ELEVATION	PRODUCT	WATER	THICKNESS	ELEVATION
MV/-8	11/1 7/94	3424.57	13.69	14.95	1.26	3410.69
141 44 -0	02/09/95	5424,57	14.46	15.02	0.56	3410.03
	06/16/95		15.50	16.41	0.91	3408.93
	10/02/95	[13.03	13,45	0.42	3411.48
	11/26/95		14.16	14. 71	0.55	3410.33
	04/16/96		13.66	13.70	0.04	3410.90
	07/06/96		13.05	13.07	0.02	3411.52
	09/30/96		8.04	8.07	0.03	3416.53
	01/10/97	[9.89	9.90	0.01	3414.68
	04/02/97		10.58	10.60	0.02	3413.99
	07/10/97		NP	12.59	NA	3411.98
	10/17/97		NP	10.20	NA	3414.37
	01/18/98	1	NP	10.08	NA	3414.49
	04/18/98	[NP	10,52	NA	3414.05
	05/29/98		NP	11.55	NA	3413.02
	06/30/98		NP	11.87	NA	3412.70
	07/23/98		NP NP	13.65 14.42	NA NA	3410.92
	08/19/98 12/05/98		NP	14.42	NA	3410.15 3409.27
1	04/01/99	[NP	15.73	NA	3408.84
	06/03/99		NP	11.88	NA	3412.69
	09/20/99		NP	7.20	NA	3417.37
	01/08/00		NP	8.58	NA	3415.99
	06/08/00		NP	9,71	NA	3414.86
	07/24/01		NP	9,53	NA	3415.04
	03/21/02		NP	7.28	NA	3417.29
	07/17/03		NP	8.59	NA	3415.98
	03/29/04		NP	6.80	NA	3417.77
	08/17/05)	NP	6.82	NA	3417.75
			Plugged and A	bandoned		
MW-9	11/17/94	3456.12	23.07	23.10	0.03	3433.05
	02/09/95		Sheen	23.41	Sheen	3432,71
	06/16/95		Sheen	24.65	Sheen	3431.47
	10/02/95		Sheen	20.73	Sheen	3435.39
	11/26/95		Sheen	19.52	Sheen	3436.60
	04/16/96		17.53	17.54	0.01	3438,59
	07/06/96		21.20	21.23	0.03	3434.92
	09/30/96		16.00	16.02	0.02	3440.12
	01/10/97		17.55	17.57	0.02	3438,57
	04/02/97		18.91	18.92	0.01	3437,21
	07/10/97		20.39	20.41	0.02	3435,73
	10/17/97		20.13	20.15	0.02	3435.99
	01/18/98		18.39	18.40	0.01	3437.73
	04/18/98	}	18.80 ND	18.81	0.01 NA	3437.32
	05/29/98 06/30/98		NP NP	19.50 19.82	NA NA	3436,62 3436,30
	07/23/98	1	21.00	21.01	0.01	3436.30
	08/19/98		21.00 NP	21.01	NA	3433.12
	12/05/98		NP	23.18	NA	3432,94
	04/01/99	}	NP	22.85	NA	3433.27
	06/03/99		NP	20.85	NA	3435.27
	09/20/99	1	NP	12.56	NA	3443.56
	01/08/00	1	NP	12.64	NA	3443.48
	06/08/00		NP	11.65	NA	3444.47
	07/24/01		NP	10.65	NA	3445.47
	03/12/02	ļ	7.80	7.81	0.01	3448.32
	07/18/03		Sheen	9.71	Sheen	3446.41
	03/29/04		NP	6.90	NA	3449.22
	08/17/05		NP	9.63	NA	3446.49
	10/10/06	ļ	NP	6.12	NA	3450.00
1	08/12/08		NP	6.02	NA	3450.10



Appendix F – Disposal Tickets and Transporter Manifests

Received by O	C D: 2/23	/2021 11:02	7:42 AM								Page 144 of 162
	6		omer #: CRI3200 red by: MELANIE NOLAN			E	Ficket #: Bid #: Date: Generator:	700-11803 Walk-in B 12/7/2020 Holly Ener	d		
ENVIRONMENTAL SOLUTIONS Permian Basin			Manif Manif Haule Driver	PO #: Manifest #: NA Manif. Date: 12/7/2020 Hauler: M Mata Trucking LLC Driver JESUS Truck # 101			Generator # Well Ser. #: Well Name: Well #: Field: Field #:		999908		
			Card Job R	#				Rig: NON-DRILLING County EDDY (NM)			
Facility: CRI											
Product / Serv	vice					Q	uantity Ur	nits			- 111 1
Contaminated Soil (RCRA Exempt)							20.00 y	ards			
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						
Generator Ce	tificatio	n Stateme	nt of W:	aste Stati	19	188-12	Sec. 199				State and the state
I hereby certify 1988 regulatory X RCRA Exer	hat accor determin npt: Oil F Exempt:	rding to the ation, the ab Field wastes	Resource ove desci generatec	Conservat ribed waste I from oil a	ion and Recoverse is:	tion and p	production o	perations and	l are not mix	ed with nor	n-exempt waste

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ______MSDS Information _____RCRA Hazardous Waste Analysis _____Process Knowledge _____Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature										
Customer Approval											
	THIS IS NOT AN INVOICE!										
Approved By:	Date:										
Received by O	C D: 2/23	/2021 11:0	7:42 AM							, i	Page 145 o
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RG ENVIRONMENT SOLUTION Permian Basir	vs 🥪	50	Custor Custor Ordere AFE # PO #: Manife Manif. Hauler Driver Truck Card # Job R	mer #: (ed by: 1 : : Date: 1 r: 1 f: 1 #	HOLLY ENERG CRI3200 MELANIE NOL NA 12/7/2020 M Mata Truckir MANUEL 150	AN	B G G V V V F F F F	icket #: id #: benerator: Generator # Vell Ser. #: Vell Name: Vell Name: Vell #: field: field #: Rig: County	700-1180398 Walk-in Bid 12/7/2020 Holly Energy		
Facility: CRI											
Product / Serv	ice				-	Q	uantity Un	its			
	Soil (R	CRA Exer	npt)				20.00 ya	ards			
Contaminated				Conc	. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Contaminated	Cell	pH	CI	CONC							

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ______MSDS Information _____RCRA Hazardous Waste Analysis _____Process Knowledge _____Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Received by OCD: 2/23/2021 11:07	:42 AM							Page 146 of 162		
Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	MELANIE NOLA NA 12/7/2020	CRI3200 Bid #: MELANIE NOLAN Date: Generator: Generator # NA Well Ser. #: 12/7/2020 Well Name: M Mata Trucking LLC Well #: JONAHTAN Field:				999908			
Facility: CRI										
Product / Service			Q	antity Uni						
Contaminated Soil (RCRA Exem	ot)			20.00 ya	ards					
Cell pH Lab Analysis: 50/51 0.00	Cl Cor 0.00 0.0		TDS	PCI/GM	MR/HR	H2S	% Oil	Weight		
Generator Certification Statemen I hereby certify that according to the R 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field was characteristics established in RCRA re amended. The following documentati MSDS Information RCRA H Driver/ Agent Signature	Resource Conset ove described w generated from o ste which is non egulations, 40 C on is attached to	vation and Recove aste is: bil and gas explorat -hazardous that do FR 261.21-261.24 of demonstrate the a te Analysis Pr	ion and p es not exc r listed ha bove-des ocess Kno	roduction of eed the min azardous wa cribed waste	perations an imum standa ste as define is non-haza _ Other (Pro	d are not mix ards for waste d in 40 CFR, ardous. (Chec	ed with no e hazardous , part 261, s k the appro	n-exempt wasto s by subpart D, as opriate items):		
Customer Approval						\cup	and the second	K at		
	TH	IS IS NOT	AN II	VOIC	E					
Approved By:			D	ate:						

12/7/2020 10:49:13AM

Received by OG	C D: 2/2 3	2/2021 11:0	7:42 AM								Page 147 of 10
Da	R360			mer#: CF ed by: ME	HOLLY ENERGY E: CRI3200 E: MELANIE NOLAN			'icket #: iid #: Date: Generator:	700-1180400 Walk-in Bid 12/7/2020 Holly Energy		
ne	10		AFE #: PO #:					Generator #:			
ENVIRONMENTA SOLUTION			Manife Manif.		A 2/7/2020		١	Vell Ser. #: Vell Name:	999908 ABO CEN	TURION S	STATION
Permian Basin			Hauler	r: M	Mata Truckir	ng LLC		Vell #: Field:			
			Driver Truck Card # Job R	# 12 #	ERGIO		F F	Field #: Rig: County	NON-DRI EDDY (NI		
Facility: CRI											-
Product / Serv	vice					Q	uantity Ur				
Contaminated	Soil (R	CRA Exer	mpt)				20.00 y	ards			11111
	Cell	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						
Generator Ce	rtificatio	on Statem	ent of Wa	aste Statu	us						an an Inder
I hereby certify	that acco	rding to the	Resource	Conservat	ion and Recov	ery Act (F	RCRA) and 1	he US Envi	ronmental Pr	otection Ag	gency's July
1988 regulatory X RCRA Exer	. 011	T' 1.1 and ato	a acomonator	d from oil o	and age evolor	ation and	production of	operations an	d are not mi	xed with no	n-exempt waste
		01 6 11	and a subscal	a in mon ho	zordouc that du	nes not ex	ceed the mu	innun stand	alus ioi musi	contraction acon	00
the second s	1 1 1 1	1: DODA	manulation	a AOCED	76171-76174	or listed r	azardous w	asic as utill	cu m to ci r	, pure song	babpart = ,
1 1 171	C-11	donumont	ation is atte	ached to de	monstrate the	above-des	scribed was	e is non-naz	aruous. (ene	on the uppr	oprime mene).
_ MSDS Info	rmation	_ RCRA	A Hazardo	us Waste A	nalysis _ P	TOCESS NI	lowledge	_ Outer (11	or de deseri	Lorden norden a	

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

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Approved By:

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Received by OCD: 2/23/2021 11:07.	:42 AM							Page 148 of 1
Permian Basin	DLUTIONS Manif. Date: 12/7				Ficket #: Bid #: Date: Generator: Generator #: Vell Ser. #: Vell Name: Vell Name: Vell #: Field : Field #: Rig: County	999908		
Facility: CRI								
Product / Service			Q	uantity Un	nits			Salls Ble
Contaminated Soil (RCRA Exemp	ot)			20.00 y	ards			
Cell pH	CI Con	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
ab Analysis: 50/51 0.00	0.00 0.0	0 0						
Generator Certification Statemen I hereby certify that according to the Re 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentatio MSDS Information _ RCRA H Driver/ Agent Signature	esource Conser- ve described wa enerated from o te which is non- gulations, 40 CF on is attached to	vation and Recover aste is: il and gas explora hazardous that do rR 261.21-261.24 of demonstrate the a e Analysis Pr	tion and p es not exe or listed h bove-des ocess Kn	production o ceed the min azardous wa cribed waste	operations and nimum standa aste as defined e is non-hazal Other (Pro	l are not mix rds for waste d in 40 CFR dous. (Chec	ed with noi e hazardous , part 261, s k the appro	n-exempt wast by ubpart D, as priate items):
Customer Approval					V			
	ТН	IS IS NOT	AN I	NVOIC	E!			

Received by OCD: 2/23/2021 11:07	7:42 AM							Page 149 of
R3600	Customer: HOLLY EN Customer #: CRI3200 Ordered by: MELANIE # AFE #: PO #: Manifest #: NA Manif. Date: 12/7/2020 Hauler: RDR EAG Driver RICARDO Truck # 08 Card # Job Ref #				Ficket #: Bid #: Date: Generator: Generator #: Vell Ser. #: Vell Name: Vell #: Field : Field #: Rig: County	999908		
Facility: CRI								
Product / Service		10	Q	antity Ur	nits			
Contaminated Soil (RCRA Exemp	pt)			20.00 y	ards			
Cell pH	CI Cor	nd. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
ab Analysis: 50/51 0.00	0.00 0.0	0 0						
Generator Certification Statemer I hereby certify that according to the R 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field was characteristics established in RCRA re amended. The following documentation MSDS Information _ RCRA H	Resource Conser- ove described was generated from c ste which is non- egulations, 40 Cl on is attached to	vation and Recover aste is: bil and gas explora -hazardous that do FR 261.21-261.24 co demonstrate the a e Analysis Pr	tion and p es not exc or listed h bove-des ocess Kn	roduction of reed the min azardous was cribed wast owledge	operations and nimum standa aste as define e is non-haza _ Other (Pro	d are not mix rds for waste d in 40 CFR dous. (Chec	ed with nor e hazardous , part 261, s k the appro	n-exempt wast by ubpart D, as priate items):
Driver/ Agent Signature		R360 F	Represe	ntative Sig	gnature	11		
Customer Approval			1.2			/	1	
	тн	IS IS NOT	AN I	NVOIC	E!			

Received by OCD: 2/23/2021 11:07					Page 150 of 162			
Permian Basin	Customer #:	HOLLY ENERG CRI3200 MELANIE NOLA NA 12/7/2020 RDR EAGLE TI RICARDO 08	Bid Da Ge Ge We Fie Fie Rig	ell #: eld: eld #:				
Facility: CRI								
Product / Service		a stations	Qua	antity Unit			Alex 1 -	
Contaminated Soil (RCRA Exemp	ot)			20.00 yar	rds			
Cell pH Lab Analysis: 50/51 0.00	Cl Cor 0.00 0.0		TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Generator Certification Statemen I hereby certify that according to the R 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field was characteristics established in RCRA re amended. The following documentati MSDS Information _ RCRA R Driver/ Agent Signature	Resource Conserved described w generated from of ste which is non egulations, 40 C on is attached to	vation and Recover aste is: bil and gas exploration -hazardous that do FR 261.21-261.24 of demonstrate the st the AnalysisP	tion and pro- bes not exce or listed haz above-desci rocess Know	oduction op ed the minit zardous was ribed waste	erations and num standa te as define is non-haza Other (Pro	d are not mix ards for wasted in 40 CFR	ked with not e hazardous , part 261, s ck the appro	n-exempt waste s by ubpart D, as opriate items):
Customer Approval	тн	IS IS NOT	ANIN	IVOICE	=1			
			2 45 W 83 1		-			
Approved By:					e and a second		-	

SOLUTIONS Manif. Date: 12/7/2020 Well Name: ABO CENTURION STATION Hauler: Mata Trucking LLC Well #: Driver MANUEL Field: Truck # 150 Field #: Card # Rig: NON-DRILLING Job Ref # County EDDY (NM) Facility: CRI 20.00 yards Contaminated Soil (RCRA Exempt) 20.00 yards	Received by OCD: 2/23/2021 11	:07:42 AM					Pag	ze 151 of 10
Hauler: M Mata Trucking LLC Well #: Driver MANUEL Field Truck # 150 Field #: Rig: NON-DRILLING Job Ref # County EDDY (NM) Facility: CRI 20.00 yards Contaminated Soil (RCRA Exempt) 20.00 yards Cell pH Cl Cond % Solids TDS Analysis: 50/51 0.00 0.00 Senerator Certification Statement of Waste Status Necovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field waste sgenerated from oil and gas exploration and production operations and are not mixed with non-exempt waste	FBS6 INVIRONMENTAL SOLUTIONS	Customer Ordered b AFE #: PO #: Manifest #	#: CRI3200 by: MELANIE NOL #: NA		Bid #: Date: Generator: Generator : Well Ser. #	Walk-in Bid 12/7/2020 Holly Energ #: ; 999908	у	TION
Garactive CRI Product / Service Quantity Units Contaminated Soil (RCRA Exempt) 20.00 yards		Hauler: Driver Truck # Card #	M Mata Trucki MANUEL 150	ng LLC	Well #: Field: Field #: Rig:	NON-DRIL		
Operation Quantity Units Contaminated Soil (RCRA Exempt) 20.00 yards <u>Cell</u> <u>pH</u> <u>Cl</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Cond</u> <u>Conod</u> <u>Cond</u> <u>Cond</u> <u>C</u>			.*	÷				
Contaminated Soil (RCRA Exempt) 20.00 yards <u>Cell</u> <u>pH</u> <u>Cl</u> <u>Cond</u> <u>%Solids</u> <u>TDS</u> <u>PCI/GM</u> <u>MR/HR</u> <u>H2S</u> <u>% Oil</u> <u>Weight</u> <u>ab Analysis</u> : <u>50/51</u> 0.00 0.00 0.00 0 Generator Certification Statement of Waste Status hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste <u>a RCRA Non-Exempt</u> : Oil Field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by <u>haracteristics</u> established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as <u>imended</u> . The following documentation is attached to demonstrate the above-described waste is on-hazardous. (Check the appropriate items): <u>MSDS Information</u> _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above) Driver/ Agent Signature R360 Representative Signature THIS IS NOT AN INVOICE!					en latera de su al			
Cell pH Cl Cond. % Solids TDS PCI/GM MR/HR H2S % Oil Weight Ab Analysis: 50/51 0.00 0.00 0 0 0 0 0 Senerator Certification Statement of Waste Status hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is: X X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above) Oriver/ Agent Signature R360 Representative Signature MSIDS INformation RTHIS IS NOT AN INVOICE!								
ab Analysis: 50/51 0.00 0.00 0 Senerator Certification Statement of Waste Status hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by tharacteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as imended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above) Driver/ Agent Signature R360 Representative Signature THIS IS NOT AN INVOICE!	ontaminated Soil (RCRA Ex	empt)		2	0.00 yards			
Senerator Certification Statement of Waste Status hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information	and the second se			TDS PC	CI/GM MR/HF	H2S	% Oil V	Veight
hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as unended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above) Driver/ Agent Signature R360 Representative Signature Customer Approval THIS IS NOT AN INVOICE!	ab Analysis: 50/51 0.00	0.00	0.00 0	5				
THIS IS NOT AN INVOICE!	hereby certify that according to t 988 regulatory determination, the X RCRA Exempt: Oil Field wast RCRA Non-Exempt: Oil field characteristics established in RCR	he Resource Cor above described tes generated fro waste which is r A regulations, 40	d waste is: om oil and gas explor: non-hazardous that do 0 CFR 261.21-261.24	ation and produ- oes not exceed t or listed hazard	ction operations a the minimum stand lous waste as defir	nd are not mixe lards for waste led in 40 CFR, j	d with non-ex hazardous by part 261, subp	kempt wast bart D, as
	hereby certify that according to t 1988 regulatory determination, the <u>X</u> RCRA Exempt: Oil Field wass <u>RCRA Non-Exempt: Oil field</u> characteristics established in RCR amended. The following documer	he Resource Cor above described tes generated fro waste which is r A regulations, 40 ntation is attache	d waste is: om oil and gas explora- non-hazardous that do 0 CFR 261.21-261.24 of to demonstrate the vaste Analysis _ P	ation and produ- oes not exceed t or listed hazard above-describer rocess Knowled	ction operations a the minimum stand lous waste as defir d waste is non-haz dge Other (P	nd are not mixe lards for waste led in 40 CFR, j ardous. (Check	d with non-ex hazardous by part 261, subp the appropria	kempt wast bart D, as
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	hereby certify that according to t 988 regulatory determination, the X RCRA Exempt: Oil Field wast RCRA Non-Exempt: Oil field haracteristics established in RCR mended. The following documer MSDS Information RCF Driver/ Agent Signature	he Resource Con above described tes generated fro waste which is r A regulations, 40 ntation is attache RA Hazardous W	d waste is: om oil and gas explora- non-hazardous that do 0 CFR 261.21-261.24 ed to demonstrate the /aste Analysis _ P R360	ation and produces or listed hazard above-described rocess Knowled Representation	ction operations a the minimum stand lous waste as defir d waste is non-haz dge Other (P ve Signature	nd are not mixe lards for waste red in 40 CFR, j rardous. (Check rovide descripti	d with non-e; hazardous by oart 26 l, subp the appropri- on above)	xempt wast part D, as ate items):
	hereby certify that according to t 988 regulatory determination, the X RCRA Exempt: Oil Field wass RCRA Non-Exempt: Oil field haracteristics established in RCR mended. The following documen MSDS Information RCH Driver/ Agent Signature	he Resource Con above described tes generated fro waste which is r A regulations, 40 ntation is attache RA Hazardous W	d waste is: om oil and gas explora- non-hazardous that do 0 CFR 261.21-261.24 ed to demonstrate the /aste Analysis _ P R360	ation and produces or listed hazard above-described rocess Knowled Representation	ction operations a the minimum stand lous waste as defir d waste is non-haz dge Other (P ve Signature	nd are not mixe lards for waste red in 40 CFR, j rardous. (Check rovide descripti	d with non-e; hazardous by oart 26 l, subp the appropri- on above)	xempt wast part D, as ate items):
	hereby certify that according to t 988 regulatory determination, the X RCRA Exempt: Oil Field wass RCRA Non-Exempt: Oil field haracteristics established in RCR mended. The following documen MSDS Information RCF Driver/ Agent Signature	he Resource Con above described tes generated fro waste which is r A regulations, 40 ntation is attache RA Hazardous W	d waste is: om oil and gas explora- non-hazardous that do 0 CFR 261.21-261.24 ed to demonstrate the /aste Analysis _ P R360	ation and produces or listed hazard above-described rocess Knowled Representation	ction operations a the minimum stand lous waste as defir d waste is non-haz dge Other (P ve Signature	nd are not mixe lards for waste red in 40 CFR, j rardous. (Check rovide descripti	d with non-e; hazardous by oart 26 l, subp the appropri- on above)	xempt wast part D, as ate items):
	hereby certify that according to t 988 regulatory determination, the X RCRA Exempt: Oil Field wass RCRA Non-Exempt: Oil field haracteristics established in RCR mended. The following documer MSDS Information RCF Driver/ Agent Signature	he Resource Con above described tes generated fro waste which is r A regulations, 40 ntation is attache RA Hazardous W	d waste is: om oil and gas explora- non-hazardous that do 0 CFR 261.21-261.24 ed to demonstrate the /aste Analysis _ P R360	ation and produces or listed hazard above-described rocess Knowled Representation	ction operations a the minimum stand lous waste as defir d waste is non-haz dge Other (P ve Signature	nd are not mixe lards for waste red in 40 CFR, j rardous. (Check rovide descripti	d with non-e; hazardous by oart 26 l, subp the appropri- on above)	xempt wast part D, as ate items):
	hereby certify that according to t 988 regulatory determination, the X RCRA Exempt: Oil Field wast RCRA Non-Exempt: Oil field characteristics established in RCR mended. The following documen MSDS Information RCH Driver/ Agent Signature	he Resource Con above described tes generated fro waste which is r A regulations, 40 ntation is attache RA Hazardous W	d waste is: om oil and gas explora- non-hazardous that do 0 CFR 261.21-261.24 ed to demonstrate the /aste Analysis _ P R360	ation and produces or listed hazard above-described rocess Knowled Representation	ction operations a the minimum stand lous waste as defir d waste is non-haz dge Other (P ve Signature	nd are not mixe lards for waste red in 40 CFR, j rardous. (Check rovide descripti	d with non-e; hazardous by oart 26 l, subp the appropri- on above)	xempt wasto part D, as ate items):
	hereby certify that according to t 988 regulatory determination, the X RCRA Exempt: Oil Field wast RCRA Non-Exempt: Oil field characteristics established in RCR mended. The following documen MSDS Information RCH Driver/ Agent Signature	he Resource Con above described tes generated fro waste which is r A regulations, 40 ntation is attache RA Hazardous W	d waste is: om oil and gas explora- non-hazardous that do 0 CFR 261.21-261.24 ed to demonstrate the /aste Analysis _ P R360	ation and produces or listed hazard above-described rocess Knowled Representation	ction operations a the minimum stand lous waste as defir d waste is non-haz dge Other (P ve Signature	nd are not mixe lards for waste red in 40 CFR, j rardous. (Check rovide descripti	d with non-e; hazardous by oart 26 l, subp the appropri- on above)	xempt wasto part D, as ate items):

10000

	11:07:42 AM							Page 152 of 1
RB360	Customer: HOLLY ENERG Customer #: CRI3200 Ordered by: MELANIE NOLA AFE #: PO #: Manifest #: NA Manif. Date: 12/7/2020 Hauler: M Mata Truckin Driver JONATHAN Truck # 01 Card # Job Ref #				Ticket #. Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	999908		
Facility: CRI								
Product / Service				Quantit	y Units			
Contaminated Soil (RCRA E	xempt)			12.	00 yards			
Cell pH Lab Analysis: 50/51 0.00	CI 0.00	Cond. 0.00	%Solids T 0	DS PCI	GM MR/HR	H2S	% Oil	Weight
Generator Certification Stat I hereby certify that according to 1988 regulatory determination, t X RCRA Exempt: Oil Field wa RCRA Non-Exempt: Oil fie characteristics established in RC amended. The following docum MSDS InformationR	the Resource C he above describ astes generated f ld waste which is RA regulations, entation is attac	conservati bed waste from oil a s non-haz 40 CFR 2 hed to der	on and Recovery A is: nd gas exploration ardous that does n 261.21-261.24 or lis monstrate the abov	and product ot exceed th sted hazardo ye-described	ion operations and e minimum standa us waste as define waste is non-haza	d are not mixe ards for waste d in 40 CFR, ardous. (Check	ed with nor hazardous part 261, s the appro	n-exempt wast s by subpart D, as opriate items):
I hereby certify that according to 1988 regulatory determination, t X RCRA Exempt: Oil Field wa RCRA Non-Exempt: Oil fie characteristics established in RC	the Resource C he above describ astes generated f ld waste which is RA regulations, entation is attac	conservati bed waste from oil a s non-haz 40 CFR 2 hed to der	on and Recovery A is: and gas exploration cardous that does n 261.21-261.24 or lis monstrate the abov nalysis Proces	and product ot exceed th sted hazardo ve-described ss Knowledg	ion operations and e minimum standa us waste as define waste is non-haza	d are not mixe ards for waste d in 40 CFR, ardous. (Check	ed with not hazardous part 261, s the appro	n-exempt wast s by subpart D, as opriate items):
I hereby certify that according to 1988 regulatory determination, t X RCRA Exempt: Oil Field wa RCRA Non-Exempt: Oil fie characteristics established in RC amended. The following docum MSDS InformationR	o the Resource C he above descril astes generated f Id waste which i RA regulations, centation is attac CRA Hazardous	conservati bed waste from oil a s non-haz 40 CFR 2 hed to der Waste Al	on and Recovery A is: and gas exploration cardous that does n 261.21-261.24 or lis monstrate the abov nalysis Proces R360 Rep	and product ot exceed th sted hazardo ve-described ss Knowledg	ion operations and e minimum standa us waste as define waste is non-haza ge Other (Pro e Signature	d are not mixe ards for waste d in 40 CFR, ardous. (Check	ed with not hazardous part 261, s the appro	n-exempt wast s by subpart D, as opriate items):
I hereby certify that according to 1988 regulatory determination, t X RCRA Exempt: Oil Field wa RCRA Non-Exempt: Oil fie characteristics established in RC amended. The following docum MSDS Information RO Driver/ Agent Signature	o the Resource C he above descril astes generated f Id waste which i RA regulations, centation is attac CRA Hazardous	conservati bed waste from oil a s non-haz 40 CFR 2 hed to der Waste Al	on and Recovery A is: and gas exploration cardous that does n 261.21-261.24 or lis monstrate the abov nalysis Proces	and product ot exceed th sted hazardo ve-described ss Knowledg	ion operations and e minimum standa us waste as define waste is non-haza ge Other (Pro e Signature	d are not mixe ards for waste d in 40 CFR, ardous. (Check	ed with not hazardous part 261, s the appro	n-exempt wast s by subpart D, as opriate items):

Received by O											
Received by O	CD: 2/2	3/2021 11:0									Page 153 of
		1	Custor		DLLY ENERG	GΥ		icket #:	700-11805		
ESTIMATION AND		-		ner#: CF		A.N.I.		Bid #:	Walk-in Bi	a	
Marsher HH	NE	500	Ordere		ELANIE NOL	AN	-)ate:	12/7/2020	~	
		VV D	AFE #:					Generator: Generator #:	Holly Ener	gy	
SULIDOALBACSIT		23	PO #:		NA			Vell Ser. #:			
NVIRONMENT. SOLUTIO		A PA	Manife					Vell Ser. #.		TUDION	STATION
30101101	NO VILLE		Manif.		/7/2020 Mata Truckir	all C		Vell #:	ADU CEN	IUNION	STATION
Permian Basir	1		Hauler Driver		SUS	IY LLC		ield:			
			Truck					ield #:			
			Card #		. <u>.</u> .			Rig:	NON-DRI	LING	
			Job Re					County	EDDY (NM		
			JOD RE	el #				Jounty	LDD1 (M	~)	
acility: CRI											
Product / Serv	vice					Q	uantity Un	its			
Contaminated	Leven 1 -	CRA Exen	npt)				20.00 y				
	Cell	рН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:		0.00	0.00	0.00	0						
March Street and Const.											
Generator Cer	rtificatio	n Stateme	ent of Wa	ste Statu	S						
						ery Act (R	CRA) and th	ne US Envir	onmental Pro	otection Ag	ency's July
hereby certify t	that accou	rding to the	Resource	Conservati	on and Recove	ery Act (R	CRA) and th	ne US Envir	onmental Pro	otection Ag	ency's July
hereby certify t 1988 regulatory	that accordent	rding to the ation, the al	Resource o	Conservati- ibed waste	on and Recoveris:						
hereby certify to hereby certi	that accord determin npt: Oil F	rding to the ation, the al Field wastes	Resource over descrigenerated	Conservati ibed waste from oil ar	on and Recove is: nd gas explora	tion and j	production o	perations and	l are not mix	ed with nor	n-exempt waste
hereby certify t 988 regulatory X RCRA Exen RCRA Non-	that accord determin npt: Oil F -Exempt:	rding to the ation, the al Field wastes Oil field wa	Resource pove descr generated aste which	Conservati ibed waste from oil an is non-haz	on and Recove is: nd gas explora ardous that do	tion and poes not ex-	production o ceed the min	perations and imum standa	l are not mix rds for waste	ed with noi hazardous	n-exempt wast
hereby certify to 988 regulatory X RCRA Exer RCRA Non- characteristics en umended. The f	that accord determin npt: Oil F -Exempt: stablished following	rding to the ation, the al Field wastes Oil field wa d in RCRA documenta	Resource of pove descr generated aste which regulations tion is atta	Conservati- ibed waste from oil au is non-haz s, 40 CFR 2 ched to der	on and Recoversis: nd gas explora ardous that do 261.21-261.24 monstrate the a	tion and poes not export or listed habove-des	production o beed the min azardous wa cribed waste	perations and imum standa ste as define s is non-hazar	l are not mix rds for waste d in 40 CFR, rdous. (Chec	ed with nor hazardous part 261, s k the appro	n-exempt waste by ubpart D, as priate items):
hereby certify to 1988 regulatory X RCRA Exer RCRA Non- characteristics en amended. The f	that accord determin npt: Oil F -Exempt: stablished following	rding to the ation, the al Field wastes Oil field wa d in RCRA documenta	Resource of pove descr generated aste which regulations tion is atta	Conservati- ibed waste from oil au is non-haz s, 40 CFR 2 ched to der	on and Recover is: and gas explorate ardous that do 261.21-261.24 of	tion and poes not export or listed habove-des	production o beed the min azardous wa cribed waste	perations and imum standa ste as define s is non-hazar	l are not mix rds for waste d in 40 CFR, rdous. (Chec	ed with nor hazardous part 261, s k the appro	n-exempt waste by ubpart D, as priate items):
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I hereby certify f 1988 regulatory X RCRA Exer RCRA Non- characteristics e amended. The f MSDS Info	that accord determin npt: Oil F -Exempt: stablished following rmation	rding to the ation, the al Field wastes Oil field wa d in RCRA documenta RCRA	Resource of pove descr generated aste which regulations tion is atta	Conservati- ibed waste from oil au is non-haz s, 40 CFR 2 ched to der	on and Recover is: and gas explorate ardous that do 261.21-261.24 of monstrate the a nalysis Pr	tion and p bes not ex- or listed h above-des rocess Kn	broduction o ceed the min azardous wa cribed waste owledge	perations and imum standa ste as define is non-haza _ Other (Pro	l are not mix rds for waste d in 40 CFR, rdous. (Chec	ed with nor hazardous part 261, s k the appro	n-exempt waste by ubpart D, as priate items):

THIS IS NOT AN INVOICE!

Approved By:

Customer Approval

R36	50	Custor Ordere AFE # PO #: Manife Manif.	ed by: N : est#: N	RI3200 IELANIE NOL	AN		Bid #: Date: Generator:	Walk-in Bi 12/7/2020 Holly Ener		
	50	AFE # PO #: Manife	: est#: N		AN	-4	Generator:			
		PO #: Manife	est#: N	Δ				Holly Ener	av	
	/	Manife		Δ			^			
				A			Generator #:	999908		
0020110110		Marin.	Data: 1	2/7/2020			Well Ser. #: Well Name:	ABO CEN		NOITATION
		Hauler		DR EAGLE T	RUCKIN	G	Well #:	ADO OLIN	TORION	JIANON
Permian Basin		Driver		ICARDO			Field:			
		Truck	# 1	295			Field #:			
		Card #	¥				Rig:	NON-DRI		
		Job R	ef#				County	EDDY (NM	Л)	
Facility: CRI										
Product / Service					Q	uantity U	nits			191 - 1
Contaminated Soil (RCRA Exen	npt)				20.00	yards			
Cell	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis: 50/51	0.00	0.00	0.00	0						

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

<u>X</u> RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
 <u>RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by</u>

characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): ______ MSDS Information ______ RCRA Hazardous Waste Analysis ______ Process Knowledge ______ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

Received by OC	CD: 2/23	/2021 11:0	7:42 AM								Page 155 of 16.
RS	36	6	Custor Custor Ordere AFE #	ner#:C ed by: N	IOLLY ENERG CRI3200 /IELANIE NOL/			Ticket #: Bid #: Date: Generator:	700-11805 Walk-in Bi 12/7/2020 Holly Ener	id	
ENVIRONMENT, SOLUTIOI	N 10 1	1	PO #: Manife Manif.	Date: 1	NA 12/7/2020			Generator # Well Ser. #: Well Name: Well #:	999908 ABO CEN		STATION
Permian Basin			Hauler Driver Truck Card f Job Ri	F # 1	RDR EAGLE T RICARDO 1295	RUCKIN		Field: Field #: Rig: County	NON-DRI EDDY (NI		
Facility: CRI											
Product / Serv	rice					Q	uantity U	nits			
Contaminated	Soil (R	CRA Exer	npt)				20.00	yards			
	Cell	рН	CI	Cond	. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						
Generator Ce	tificatio	on Statem	ent of Wa	ste Sta	tus			2.1.0			

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

_____MSDS Information _____RCRA Hazardous Waste Analysis _____Process Knowledge _____Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

TRANSPOR	TER'S MANIFEST
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL
Holly Energy Partners	Site: Abo Centurion Station
1602 W. Main Street	Location: 32.76337442, -104.26801562
Artesia, NM88210	Eddy County, New Mexico NMPA:N/A
TRANSPORTERS NAME AND ADDRESS: M	and a second
MataTrucking,	
PO BOX 1263,	
Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P NON- EXEMPT SOIL	
VOLUME: approx. 250 cubicyards	2.0 yds
FACILITY CONTACT:	Wave L. Chon
na I	Signature: 11320 Act of Cost
Melanie Nolan Holly Energy Partners	Date:
1602 W. Main St., Artesia, NM 88210	
NAME OF TRANSPORTER: (DRIVER)	
MA Meter Trucking	Name: Texy homo -
M Mata Trucking, PO BOX 1263,	1.0
Hobbs, NM, 88241	Signature fine from -
TK#101	Date: 12-7-2020
, DISPOSAL SITE:	Sm
	Signature:
R360 Hobbs Facility	MMDA
MM66 Carlsbad Hwy	
	Date: 121120
MM66 Carlsbad Hwy	Date:

TRANSF	PORTER'S MANIFEST
HIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL
Holly Energy Partners	Site: Abo Centurion Station
L602 W. Main Street	Location: 32.76337442, -104.26801562
Artesia, NM88210	Eddy County, New Mexico NMPA:N/A
RANSPORTERS NAME AND ADDRESS: M	1 Inoch
MataTrucking,	1. LOAD
PO BOX 1263,	2 LOAD
DESCRIPTION OF WASTE:	
E&P NON- EXEMPT SOIL	
	nnuads
VOLUME:approx. 250 cubicyards	20 yards
FACILITY CONTACT:,	
to the Market	Signature:
Melanie Nolan Holly Energy Partners	Date:
1602 W. Main St., Artesia, NM 88210	
Construction Directory of the second s	
NAME OF TRANSPORTER: (DRIVER)	
	150 Name MANSIEL MALA
M MataTrucking, TRUCK #	hit Pr
M MataTrucking, / Z J 2 4 PO BOX 1263, Hobbs, NM, 88241	Signature: Mist
PO BOX 1263,	Signature: Misso
M MataTrucking, / 2024 # PO BOX 1263, Hobbs, NM, 88241 20 4D	S. Date: 12 7-20
	S. Date: 12 7-20
DISPOSAL SITE:	S. Date: 12 7-20
DISPOSAL SITE: R360 Hobbs Facility MM66 Carlsbad Hwy	S. Date: 12 7-20
, <u>DISPOSAL SITE:</u> R360 Hobbs Facility	Signature: Misso
DISPOSAL SITE: R360 Hobbs Facility MM66 Carlsbad Hwy	S. Date: 12 7-20

TRANSPORTER'S MANIFEST		
PPERS FACILITY NAME AND ADDRESS:LOCATION OF MATERIAL.		
Holly Energy Partners	Site: Abo Centurion Station Location: 32.76337442, -104.26801562 Eddy County, New Mexico NMPA:N/A	
1602 W. Main Street Artesia, NM88210		
TRANSPORTERS NAME AND ADDRESS: M		
Mata Trucking,		
PO BOX 1263, Hobbs, NM, 88241		
	1	
DESCRIPTION OF WASTE:	land Z load	
E&P NON- EXEMPT SOIL	land Z	
T ا VOLUME: _ approx. 250 cubicyards	nnul 17. Vids	
	LUYOS 10 100	
FACILITY CONTACT:		
Melanie Nolan	Signature: Malance Nale	
Holly Energy Partners	Date: 12 - 4 - 2000	
1602 W. Main St., Artesia, NM 88210		
NAME OF TRANSPORTER: (DRIVER)	٢,	
NA Moto Trucking	Name forch ter	
M MataTrucking, PO BOX 1263, Hold	Name: for a tan -	
Hobbs, NM, 88241 77-01	Signature: Januahran_	
	Date: 12/7/20	
DISPOSAL SITE:	In. 141	
R360 Hobbs Facility	Signature:	
MM66 Carlsbad Hwy Hobbs, NM 88241	Date: 12 7 20-	
	Direct Bill: Holly Energy Partners	
	Care Of: Melanie Nolan	

TRANSPORTER'S MANIFEST		
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL	
Holly Energy Partners 1602 W. Main Street Artesia, NM 88210	Site: Abo Centurion Station Location: 32.76337442, -104.26801562 Eddy County, New Mexico NMPA:N/A	
TRANSPORTERS NAME AND ADDRESS: M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241		
DESCRIPTION OF WASTE:	10ad	
E&P NON-EXEMPT SOIL 2.		
VOLUME: _ approx. 250 cubicyards 20	ycras	
FACILITY CONTACT:	Man Andrews	
se Lata Nalan	Signature:	
Melanie Nolan Holly Energy Partners 1602 W. Main St., Artesia, NM 88210	Date:	
NAME.OFTRANSPORTER:(DRIVER)	Sergio	
	$O_{e} =$	
M MataTrucking,	Name:	
PO BOX 1263, Hobbs, NM, 88241	Signature:	
TIGH 12	Date: Ph 7/20	
.DISPOSAL SITE:	(WWW. to	
R360 Hobbs Facility	Signature:	
MM66 Carlsbad Hwy Hobbs, NM 88241	Date: 12/9/20 -	
- In the second s	Direct Bill: Holly Energy Partners Care Of: Melanie Nolan	

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TRANSPORTER'S MANIFEST	
HIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL
Holly Energy Partners 1602 W. Main Street Artesia, NM 88210	Site: Abo Centurion Station Location: 32.76337442, -104.26801562 Eddy County, New Mexico NMPA:N/A
TRANSPORTERS NAME AND ADDRESS: M	
MataTrucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	1 - 1 - 10
E&P NON-EXEMPT SOIL VOLUME: _ approx. 250 cubicyards 2 nd 2	120 yds
FACILITY CONTACT:,	Signature:
Melanie Nolan Holly Energy Partners 1602 W. Main St., Artesia, NM 88210	Date:
NAME OF TRANSPORTER: (DRIVER)	De la e
NOR TYUCKING	Name: Micardo Chavy -
M Mata Trucking, KUK 100 kmg	Val
NAMEOF TRANSPORTER: (DRIVER) M Mata Trucking, RDR Trucking PO BOX 1263, Hobbs, NM, 88241 #08	Name: <u>Mcarob</u> chave
.DISPOSAL SITE:	Date: <u>12 - 7 - 20</u>

•

TRANSPORTER'S MANIFEST	
Shippers facility name and address:	LOCATION OF MATERIAL
Holly Energy Partners	Site: Abo Centurion Station Location: 32.76337442, -104.26801562
1602 W. Main Street Artesia, NM 88210	Eddy County, New Mexico NMPA:N/A
FRANSPORTERS NAME AND ADDRESS: M	a a series de la constante de l
MataTrucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	Load - 20 yards
VOLUME: _ approx. 250 cubicyards	
FACILITY CONTACT:,	×
	Signature:
Melanie Nolan	Dates States - The second
Holly Energy Partners 1602 W. Main St., Artesia, NM 88210	Date:
NAME OF TRANSPORTER: (DRIVER)	0
M MataTrucking,	Name: Micourdo _
POBOX 1263, MDR Eagle much	ing Dreffer
M MataTrucking, PO BOX 1263, Hobbs, NM, 88241 1295	Signature:
	Date: 12-07-2020
	Uniter V
DISPOSAL SITE: R360 Hobbs Facility	Signature: Multinu
	Signature: Muliny Date: 12/2/20

.....

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

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

District III

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

District IV

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

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

CONDITIONS

Operator:	OGRID:
HOLLY ENERGY PARTNERS	282505
1602 W. Main St.	Action Number:
Artesia, NM 88210	18579
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

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

Page 162 of 162 CONDITIONS

Action 18579