



Remediation Summary and Site Closure Request

February 23, 2021

Prepared by: Tania Babu Environmental Scientist I

Abo Centurion Station Crude Oil Release NRM2003032458

Prepared For:

Holly Energy Partners – Operating, L.P. 2828 North Harwood Street, Suite 1300 Dallas, Texas 75201

Prepared By:

TRC Environmental Corporation 10 Desta Drive, Suite 150E Midland, Texas 79705

ynthia K. Csain

Reviewed and Approved by: Cynthia K. Crain, PG Senior Project Manager





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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 Based on Depth to Groundwater (mg/kg)					
Consti	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 (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-3A, 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

Copy 1:	Mike Bratcher New Mexico Energy, Minerals, and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210
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	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride	
oumpie ib	Date	(feet bgs)	Son Status		milligrams per kilogram (mg/kg)									
NMOCD Closure Criteria				-	-	-	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	
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	e Sample Depth (feet bgs)	Sample	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
Gample ib	Date				milligrams per kilogram (mg/kg)								
NMOCD Closu		-	-	-	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	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
Sample ID	Date	(feet bgs)	Son Status					milligrams per kilogram (mg/k		(g)		
NMOCD Closu		-	-	-	100	10	-	-	-	50		
Confirmation Floor San	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

Sample ID Benz TT-3 @ 0-1' 40 TT-3 @ 3' 10 TT-3 @ 5' 24	Ene Total BTEX Total TPH Chloride 0 593.8 37,000 41.1 3 1,342 43,390 21.2 5 1,677.5 15,437 30.6		
Sample ID Benz TT-4 Surface 0.0 Duplicate 0.0 TT-4 @ 1' 0.0 TT-4 @ 1' 0.0 TT-4 @ 2' <0.0 TT-4 @ 30"R <0.0	ene Total BTEX Total TPH Chloride 78 0.9768 27,318 - 29 1.0589 30,984 - 66 27.5466 10,409 - 120 0.03826 131,3 - 109 0.0452 121.78 -	Sample ID TT-2 @ 0-1' TT-2 @ 4' Dup-1 TT-2 @ 7'	Benzene Total BTEX Total TPH Chloride 31.7 468.1 22,360 31.0 <0.0535 <0.0535 <3.14 10.3 <0.0511 <0.0511 4.05 5.37 <0.0556 <0.0556 11.6 27.8
	Sample ID Benzene Total BTEX Total TPH Chloride TT-1 @ 0-1' 0.329 107.829 7,937 22.9 TT-1 @ 7' <0.0548		
LEGEND O Test Trench Locations Lateral Extent of Surface Release	 Release Point HEP Abo Centurion Station Fenceline NOTES: Bold and highlighting indicates the COC was detected above < indicates the COC was below the appropriate laboratory me Dup-1 was collected from the same location as TT-2 @ 4'. Duplicate was collected from the same location as TT-4 Surface 	the NMOCD Cleanup Standards. hod/sample detection limit.	PROJECT: HOLLY ENERGY PARTH ABO CENTURION STATH EDDY COUNTY

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.

Pipeline Continues In Both Directions —— Centurion Facility Fenceline

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

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

GIS IRC

PROJE	HOLLY ENERGY PARTNERS - OPERATING, L.P. ABO CENTURION STATION CRUDE OIL RELEASE EDDY COUNTY, NEW MEXICO TITLE: SOIL SAMPLE ANALYTICAL RESULTS MAP TEST TRENCHES (DECEMBER 12, 2019 AND MARCH 30, 2020)										
TITLE:											
DRAWN	I BY:	S. RAY	PROJ. NO.:	3904							
CHECK	ED BY:	JES									
APPRO	VED BY:	JES		FIGURE 2							
DATE:		FEBRUARY 2021									
et ')) T	RC		505 East Huntland Drive, Suite 250 Austin, TX 78752 Phone: 512.329.6080 www.trcsolutions.com							

1 " = 35 ' 1:420

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Δ,	the second	273 24	1	100	1 <u>66</u>	1.00		100	
	20	· 查德的 经	CSW-6	8	52.	and the			
20	Sample ID Date Dep	oth Total TPH Benzene Total BT	EX CS-7(2)	Acres 10	1				2.92
10	CSW-6 10/14/2020 1	<49.8 <0.00100 <0.001		Sample ID	Date	Depth To	tal TPH Benze	ne Total BTE	×
		000 24	CSW45	CS-7 (2')	10/14/2020	2	<49.8 <0.001	01 <0.00101	Court
E	Sample ID Date Depth To CS-6a (2') 12/21/2020 2 2	otal TPH Benzene Total BTEX	BH41 CS-6a(2)	S	ample ID CSW-5	Date 10/14/2020	DepthTotal T1<49.9	PH Benzene <0.00100	Total BTE
			1059	mill			+ 3/6.1	1000	
				ť	Sample ID	Date	Depth Total 1	PH Benzene	Total BTE
	Sample ID Date De CS-5a (2') 12/21/2020 2	pth Total TPH Benzene Total B	CSW-7	S:5a(21)	CSW-7	10/14/2020	0 1 56.7	<0.000994	< 0.000994
	00 34 (2) 12/21/2020 2	2,100				7	CRAPA	Contraction of the	
	Sample ID Date	Depth Total TPH Benzene To	otal BTEX	CSW-4a	/	10.0	1992.0	1.1.1	11-23
	CSW-4a 12/21/202	20 1 277.7	- 188			1	Sampl	e ID Date	Depth
	1	Contraction of the	A + - + +				CS-3	(5') 11/20/20	20 5
	-	A AMPL	- telephik	100				1. 1. 1. 1	1.74
		Sample ID Date Depth T	otal TPH Benzene	Total BTEX		CS-4(5)		Sample II	D Date
		CS-4 (5') 11/20/2020 5	<49.9		CSW-8a	a(2.5) TT	2//	CSW-2	10/14/20
	Summer and a star	1.0 10 100			/	CS-3 (5)	CSW-2	12.55	0.00
		Sample ID Date Dept	Total TPH Benzer	e Total BTEX	ส	199	CS-2(5)	Sample	ID Da
		CSW-8 (2.5') 11/20/2020 2.5	<50		1000	102	CSW14	CS-2 (5') 11/20,
		CSW-8a (2.5') 12/21/2020 2.5	<49.9					21.000	
			100	100	1000		CS+1 (8)	Sam	ple ID
		Sample ID	Date Depth T	otal TPH Ben	zene Tota	I BTEX	CSW-3	CS	-1 (8') 10
		CSW-1	10/14/2020 1	<50 <0.0	00996 <0.0	00996	77-1	Cample	
	A PROPERTY AND	Duplicate-1	10/14/2020 1	<49.9 <0.0	00100 <0	0.001	1	CSW-	3 10/14/
	1. OF 188	10 STA			220	14.55			
		Dia dia Angliana la Dath Dia dia a					1000		
×	Release Point		NOTES 1 Bold	: indicates the COC	was detected h	ut was below t	the NMOCD Closure	Criteria	
•	Soil Boring Location	Pipeline Terminates On The Western	2. Bold	and highlighting inc	licates the COC	was detected	above the NMOCD (Closure Criteria.	
•	Confirmation Floor Sample	End	3. < ind 4. mg/k	g milligrams per kild	s below the applogram	ropriate labora	itory method/sample (ietection limit.	
_	Confirmation Sidewall Sample	 Centurion Facility Fenceline 	5. Dept	hs are in feet below	ground surface	9.			
~	T (T) ()	HEP Abo Centurion Station	<u> </u>						
<u> </u>	lest Irench Locations	Lateral Extent of Surface Release			T	otal TPH B	enzene Total B	EX	0
		and Excavation Limits	N	MOCD Closure	Criteria 1	00 mg/kg 1	0 mg/kg 50 mg/	kg	

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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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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

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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 88210		

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)

Crude Oil	Volume Released (bbls) Approximately 15	Volume Recovered (bbls) 3
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
~ ~ .		

Cause of Release

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

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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	NDM2002022450
Page 2	Oil Conservation Division	District RP	INRIVI2003032438
		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.

I 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: Melane Dolar	Date: <u>12/18/2019</u>
email: Melanie.Nolan@hollyenergy.com	Telephone: 214-605-8303
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?	>	<u>100_</u> (ft bgs)
Did this release impact groundwater or surface water?	is 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	r 🗆	Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied perm or church?	nanent residence, school, hospital, institution,	י 🗆	Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a sprin 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?	adaries or within a defined municipal fresh	¥ 🗆	les 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?		ז 🗆	(es 🛛 No
Are the lateral extents of the release overlying a subsurface mine?		ז 🗆	(es 🕅 No
Are the lateral extents of the release overlying an unstable area such as k	carst geology? CE	X Y	les 🛛 No
Are the lateral extents of the release within a 100-year floodplain?		□ 3	res 🛛 No
Did the release impact areas not on an exploration, development, produc	ction, or storage site?	<u></u> р	es 🛛 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

Melanie.Nolan@hollyenergy.com

email:

OCD Only

Received by: Cristina Eads

Received by OCD: 6/4/	2020 11:46:11 AM	11 AM			Page 23 of 117	
F01111 C-141	State of New	MEXICO		Incident ID	NRM2003032458	
Page 4	Oil Conservation	n Division		District RP		
				Facility ID		
				Application ID		
public health or the envi failed to adequately invo addition, OCD acceptan and/or regulations.	ronment. The acceptance of a C-141 estigate and remediate contamination ce of a C-141 report does not relieve	report by the O that pose a threa the operator of 1	CD does not relieve the c at to groundwater, surface responsibility for complia	perator of liability sh water, human health nce with any other fe	ould their operations have or the environment. In deral, state, or local laws	
Printed Name:	Melanie Nolan	Title:	Environmental Speci	alist		
Signature:	lanie Nola	D	Date: 5/21/2020	_		

Telephone: 214-605-8303

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.

Dage	24	of	117

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** 5/21/2020 Danco Date: 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	•	Insident ID	NDM2002022458		
Page 6	Oil Conservation Divisi	on	District DD	INIXIVI2003032438		
			District RP			
			Facility ID			
			Application ID			
	C	losure				
The responsible party mu or directives of the OCD. including a scaled site ma chain of custody docume	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	have complied with all a of a comprehensive repor photographs of any excav re remedial activities. Rep	pplicable closure requ t (electronic submittals ation prior to backfilli fer to 19.15.29.12 NM	tirements and any conditions s in .pdf format are preferred) ing, laboratory data including (AC.		
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	X 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			64		
I hereby certify that the in and regulations all operation may endanger public heal should their operations has human health or the envir compliance with any other restore, reclaim, and re-ve accordance with 19.15.29	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	ete to the best of my know 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 pro- onditions that existed prior OCD when reclamation an	Vedge and understand 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 thein d re-vegetation are co	that pursuant to OCD rules actions for releases which e operator of liability undwater, surface water, responsibility for ey must substantially r final land use in mplete.		
Printed Name: M	lelanie Nolan	Title: Envire	onmental Specialist			
Signature:	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: unt Printed Name: Cristina Eads **Environmental Specialist** Title:



Appendix B: Photographic Documentation














Appendix C: Soil Boring Log

	C BO	RING I	LOG	BH-1						
ent: HEP					TRC Project #: 420669					
e: Abo Centuri	on Station				Start Date: 10/13/2020					
dress: Eddy Co	ounty. NM				Finish Date: 10/13/2020					
oject: Site Asse	ssment				Permit #: Not Applicable					
illing Company:	Talon LPE	Dr	illing Crew:	D. Londagin & crew	TRC Site Rep.: Tania Babu					
illing Method: Ai	r Rotary				TRC Reviewer: Cynthia Crain					
ring Diameter (i	n): 6	Bo	oring Depth	(ft bgs): 30	Coord. Sys.: WGS 84					
mpling Method:	Split-spoon				Longitude: 104°16'05.0"W					
w Count Metho	d:Not Applicat	le Gi	rout: Bento	nite	Latitude: 32°45'47.0"N					
eld Screening Pa	arameter: PID				Elevation Datum: Not Applicable					
eter: MiniRAE 3	000			Units: ppm	Ground Elevation (ft): Not Measured					
Interval Recovery	Analytica Field Screeninç	Lithology		Lithologie	Description					
	609		SW: Medium no staining.	n to coarse sand, well grade	l, tan, loose, with gravel, dry, light hydrocarbon odor,					
	59		Caliche: Fine to medium, hard, white, consolidated, dry, no hydrocarbon odor, no staining.							
	400		Gypsum: Ha odor, no stai	ırd, tan-white, consolidated, ning.	nterlayered with brown sand, dry, no hydrocarbon					
	50		Gypsum: Ha hydrocarbon	rd, tan-white, consolidated, odor, gray weathered hydro	nterlayered with gray stained sand, dry, no carbon staining.					
20	240		Gypsum: Ha grained well hydrocarbon	rd, tan-white, consolidated, graded sand and clay, dry, s staining.	nterlayered with brown and gray stained medium- strong weathered hydrocarbon odor, gray weathered					
25	45		Gypsum: Me odor, no stai	edium, well graded, hard, off ning.	white, consolidated, with gravel, dry, no hydrocarbon					
30			Gypsum: Ha damp, stronç	rd, gray, consolidated, interl g weathered hydrocarbon oc	ayered with gray stained gravel and coarse sand, or, gray weathered hydrocarbon staining.					
				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

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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.

Certificate of Analytical Results 674005

TRC Solutions, Inc, Midland, TX

Lovington Bootser Station Release

Sample Id: Backfill			Matrix: Soil				Date Received:09.3	30.2020 16	38
Lab Sample Id:	674005-001		Date Co	ollected: 09.3	0.2020 11:00				
Analytical Met	hod: Chloride by EF	PA 300					Prep Method: E30	OP	
Tech:	CHE								
Analyst:	CHE		Date Pr	ep: 10.0	8.2020 14:05		% Moisture:		
Seq Number:	3139221			1			Basis: Wet	t 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 Met Tech: Analyst: Seq Number:	hod: TPH by SW80 DVM ARM 3138683	15 Mod	Date Pr	ep: 10.0	1.2020 11:15		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Parameter		Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range H	ydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	10.01.2020 21:01	U	1
Diesel Range Orga	anics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	10.01.2020 21:01	U	1
Motor Oil Range Hy	drocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	10.01.2020 21:01	U	1
Total TPH		PHC635	<49.9	49.9		mg/kg	10.01.2020 21:01	U	1
Surrogate			Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chloroocta	ane		111-85-3	99	%	70-130	10.01.2020 21:01	l	
o-Terphenyl			84-15-1	91	%	70-130	10.01.2020 21:01	l	

Certificate of Analytical Results 674005

TRC Solutions, Inc, Midland, TX

Lovington Bootser Station Release

Sample Id:	mple Id: Backfill Matrix: Soil					Date Received:09.30.2020 16:38					
Lab Sample Io	d: 674005-001		Date Co	ollected: 09.30.2020 11:00							
Analytical Me	ethod: BTEX by SW 8	3260C				Prep Method: SW3	5035A				
Tech:	NAL										
Analyst:	NAL		Date Pr	ep: 10.02.2020 21:00		% Moisture:	Waiaht				
Seq Number:	3138901					SUB: T104704215-	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		C	as Number	% Recovery Units	Limits	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	

- 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 Det	ection Limit	LOD Limit of Detection	
PQL	Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitation	n
DL	Method Detection Limit				
NC	Non-Calculable				
SMP	Client Sample		BLK	Method Blank	
BKS/I	LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	catory Control Sample Duplicate
MD/S	D Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NE	LAC 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 674005

TRC Solutions, Inc

Lovington Bootser Station Release

Analytical Method:	Chloride by	EPA 30	0						Pı	ep Metho	od: E30	OP	
Seq Number:	3139221				Matrix:	Solid				Date Pre	ep: 10.0	08.2020	
MB Sample Id:	7712878-1-H	BLK		LCS Sar	nple Id:	7712878-1	I-BKS		LCS	D Sample	Id: 771	2878-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<5.00	250	268	107	268	107	90-110	0	20	mg/kg	10.08.2020 14:31	
Analytical Method:	Chloride by	y EPA 30	0						Pı	ep Metho	od: E30	00P	
Seq Number:	3139221				Matrix:	Soil				Date Pre	ep: 10.0	08.2020	
Parent Sample Id:	674561-001			MS Sar	nple Id:	674561-00	01 S		MS	D Sample	e Id: 674	561-001 SD	
Parameter		Parent Result	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:	Chloride by 3139221	v EPA 30	0		Matrix:	Soil			Pı	ep Metho Date Pro	od: E30 ep: 10.0	00P 08.2020	
Parent Sample Id:	674584-002			MS Sar	nple Id:	674584-00	02 S		MS	D Sample	d: 674	584-002 SD	
Parameter		Parent Result	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:	TPH by SW 3138683	/8015 M	od		Matrix:	Solid			Pı	ep Metho Date Pro	od: SW ep: 10.0	8015P)1.2020	
MB Sample Id:	7712480-1-H	BLK		LCS Sar	nple Id:	7712480-1	I-BKS		LCS	D Sample	d: 771	2480-1-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	ons (GRO)	< 50.0	1000	951	95	1000	100	70-130	5	20	mg/kg	10.01.2020 12:39	
Diesel Range Organics (DRO)	<50.0	1000	1040	104	1030	103	70-130	1	20	mg/kg	10.01.2020 12:39	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag	D Li g	mits	Units	Analysis Date	
1-Chlorooctane		94		1	07		106		70	-130	%	10.01.2020 12:39	
o-Terphenyl		91		ç	96		95		70	-130	%	10.01.2020 12:39	
Analytical Method: Seq Number:	TPH by SW 3138683	/8015 M	od	MB San	Matrix: nple Id:	Solid 7712480-1	-BLK		Pı	ep Metho Date Pro	od: SW ep: 10.0	8015P 01.2020	
Parameter				MB Bocult							Units	Analysis	Flag
Motor Oil Range Hydrocart	ons (MRO)										me/ke	Date 10.01.2020 12:17	
				\JU.U							mg/ĸg	-0.01.2020 12.17	

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

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

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 SW8015 Mod									Prep Method: SW8015P				
Seq Number:	3138683				Matrix:	Soil				Date Pr	ep: 10.0	1.2020	
Parent Sample Id:	673912-001			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				N %]	1S Rec	MS Flag	MSD %Ree	o MSI c Flag) Li g	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	

BTEX by SW 82600	2						Prep Method: SW5035A				
3138901			Matrix:	Solid				Date Pr	ep: 10.0	2.2020	
7712658-1-BLK		LCS San	nple Id:	7712658-1	I-BKS		LCS	D Sampl	e Id: 771	2658-1-BSD	
MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
< 0.00100	0.0500	0.0494	99	0.0486	97	62-132	2	25	mg/kg	10.02.2020 22:28	
< 0.00500	0.0500	0.0445	89	0.0429	86	66-124	4	25	mg/kg	10.02.2020 22:28	
< 0.00100	0.0500	0.0454	91	0.0444	89	71-134	2	25	mg/kg	10.02.2020 22:28	
< 0.00200	0.100	0.0889	89	0.0881	88	69-128	1	25	mg/kg	10.02.2020 22:28	
< 0.00100	0.0500	0.0451	90	0.0445	89	72-131	1	25	mg/kg	10.02.2020 22:28	
MB %Rec	MB Flag	L4 %]	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag	D Li g	mits	Units	Analysis Date	
111		1	14		115		53	-142	%	10.02.2020 22:28	
101		1	03		99		53	-150	%	10.02.2020 22:28	
90		9	94		94		70	-130	%	10.02.2020 22:28	
	BTEX by SW 82600 3138901 7712658-1-BLK MB Result <0.00100 <0.00500 <0.00100 <0.00200 <0.00100 MB %Rec 111 101 90	BTEX by SW 8260C 3138901 7712658-1-BLK MB Spike Result Amount <0.00100	BTEX by SW 8260C 3138901	BTEX by SW 8260C 3138901 ✓ Matrix: 7712658-1-BLK LCS Sample Id: MB Spike LCS LCS <0.00100	BTEX by SW 8260C 3138901 Matrix: Solid 7712658-1-BLK LCS Sample Id: 7712658-1 MB Spike LCS LCS Result Amount Result %Rec LCSD <0.00100	BTEX by SW 8260C 3138901 Matrix: Solid 7712658-1-BLK LCS Sample Id: 7712658-1-BKS MB Spike LCS LCS LCS LCSD LCSD Amount Result %Rec LCSD Result %Rec 0.0100 0.0500 0.0494 99 0.0486 97 <0.00100	BTEX by SW 8260C 3138901 Matrix: Solid 7712658-1-BLK LCS Sample Id: 7712658-1-BKS MB Spike LCS LCS LCSD LCSD LCSD LISD <0.00100	BTEX by SW 8260C Matrix: Solid 3138901 Matrix: Solid 7712658-1-BLK LCS Sample Id: 7712658-1-BKS LCSI MB Spike LCS LCS LCSD LCSD LCSD LCSD MRS %RPD <0.00100	BTEX by SW 8260C Prep Meth 3138901 Matrix: Solid Date Pr 7712658-1-BLK LCS Sample Id: 7712658-1-BKS LCSD Sample Id: 7712658-1-BKS LCSD Sample Id: 7712658-1-BKS LCSD Sample Id: Result MR Spike LCS LCSD LCSD LCSD LCSD KRD RPD RPD Linit Result NRPD RPD Linit Result NRPD RPD Linit Result NRPD RPD Linit Result NRPD Result NRPD RPD Linit Linit Result NRPD Result NRPD Result Result NRPD Result Result Result NRPD Result Result <td< td=""><td>Prep Method: SW3 3138901 Prep Method: SW3 3138901 Date Prep: 10.00 7712658-1-BLK LCS Sample Id: 7712658-1-BKS LCSD Sample Id: 7712 MB Spike LCS LCS LCSD LCSD LCSD Method: LCSD LCSD LCSD Method: Result %Result %Rep RPD Units OUNTS <math>< 0.00100 0.0500 0.0494 99 0.0486 97 62-132 2 25 mg/kg $< 0.00100 0.0500 0.0454 91 0.0444 89 71-134 2$</math></td> 25 mg/kg <math>< 0.00200 0.100 0.0500 0.0451 90 0.0445 89 71-134 2 25 mg/kg <math>< 0.00200 0.100 0.0500 0.0451 90 0.0445 89 71-134 1 25 mg/kg <math>< 0.00100 0.0500 0.0451 90 0.0445 89 71-134 1 25 mg/kg <math>< 0.00100 0.0500 0.0451 90 0.0445 89 72-131 1 25 mg/kg <math>< 0.00100 0.0500 0.0451 90 0.0445 89 72-131 1 25 mg/kg 30 <math>< MB Flag LCS Flag<!--</math--></math></math></math></math></math></math></td<>	Prep Method: SW3 3138901 Prep Method: SW3 3138901 Date Prep: 10.00 7712658-1-BLK LCS Sample Id: 7712658-1-BKS LCSD Sample Id: 7712 MB Spike LCS LCS LCSD LCSD LCSD Method: LCSD LCSD LCSD Method: Result %Result %Rep RPD Units OUNTS $< 0.00100 0.0500 0.0494 99 0.0486 97 62-132 2 25 mg/kg < 0.00100 0.0500 0.0454 91 0.0444 89 71-134 2$	BTEX by SW 8260C Prep Method: SW5035A 3138901 Matrix: Solid Date Prep: $10.02.2020$ 7712658-1-BLK LCS Sample I: $7712658-1$ -BKS LCSD sample I:: $7712658-1$ -BKS $10.02.2020$ MB Spike LCS LCS LCS LCS LCSD LCSD RPD LI Malysis Analysis <0.00100

Analytical Method:	BTEX by SW 8260	С						Prep Method: SW5035A				
Seq Number:	3138901		Matrix: Soil					Date Prep: 10.02.2020				
Parent Sample Id:	674005-001		MS Sample Id: 674005-001 S			MSD Sample Id: 674005-001 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			N %]	1S Rec	MS Flag	MSD %Re) MSI c Flag) Li g	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 CONCERCE
nature) Received by: (Signature) Date/Time	re) Date/Time Relinquished by: (Sign	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 of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$75.00 will be applied to each project and a charge of \$
It assigns standard terms and conditions	purchase order from client company to Xenco, its affiliates and subcontractors.	Notice: Signature of this document and relinquishment of samples constitutes a valid
Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn	1 Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe B 6010 BBCBA Sh As Ba Be Cd Cr Co Cu Ph Mn N	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PP Circle Method(s) and Metal(s) to be analyzed TCLP / SP
		Buckfill 5 19/20/20 1100
Sample Comments		Sample Identification Matrix Sampled Sampled
lab, if received by 4:30pm	2007 00 2017 00 200	Sample Custody Seals: Yes No Nik Total Containers:
TAT starts the day received by the	FCo fCo EX	Cooler Custody Seals: Yes No (NA) Correction Factor:
	ntaii	Received Intact:
	©(ners 5∩ 02	Temperature (°C): ////J////////////////////////////////
	R R F K 60	SAMPLE RECEIPT Temp Blank: Yes No Wet Ice:
		Sampler's Name: Turice Buby / Mish Teirert Due I
)	P.O. Number: Rush
	e 🕅	Project Number: Routi
UEST Work Order Notes	ANALYSIS REQU	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	Company Name: TPC	Company Name: TVCC
Work Order Comments	Sill to: (If different) Cincly Cycuin	Project Manager: Cindy (Kuin
13-620-2000) www.xenco.com Page of	50) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (8	Hobbs,NM (575-392-7)
	(281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-333 ((432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	LABORATORIES Houston, T Midland, 7
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 Te	el	Please send report to:	Jessica Kram	er		
Lab# From	: Midland	Delivery Prio	ority:		Address:	1211 W. Flor	ida Av	e	
Lab# To:	Houston	Air Bill No.:	771677025	779	E-Mail:	jessica.krame	er@xen	co.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	SW8260CBTEX	BTEX by SW 8260C	10.06.2020	10.14.2020	JKR	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 Temperatur	Acceptable Temperature Range: 0 - 6 degC					
Date/ Time Received: 09.30.2020 04.38.44 PM	Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : IR-8						
Work Order #: 674005							
Sample Reco	eipt 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 Tall Brianna Teel

Date: 10.01.2020

Checklist reviewed by: fession Weamer

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

Analysis Requested Field is BH-1(0 ⁺) BH-1(5 ⁺) BD-1(5 ⁺) <th< th=""><th></th><th>Lab Id:</th><th colspan="2">675147-001</th><th>675147-0</th><th>02</th><th>675147-0</th><th>003</th><th colspan="2">675147-004</th><th colspan="2">675147-005</th><th colspan="2">675147-006</th></th<>		Lab Id:	675147-001		675147-0	02	675147-0	003	675147-004		675147-005		675147-006	
Image: matrice in the part of the pa	Analysis Requested	Field Id:	BH-1 (0-	1')	BH-1 (5	י) (BH-1 (10')	BH-1 (15)	BH-1 (20')		BH-1 (25')	
<table-container> Image Matrix SOL <th< th=""><th>Analysis Requesieu</th><th>Depth:</th><th>0-1 ft</th><th colspan="2">0-1 ft</th><th></th><th>10- ft</th><th></th><th>15- ft</th><th></th><th colspan="2">20- ft</th><th colspan="2">25- ft</th></th<></table-container>	Analysis Requesieu	Depth:	0-1 ft	0-1 ft			10- ft		15- ft		20- ft		25- ft	
Image Sample Indiace		Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
BTEX by SN260C SUB: T104704215-20-38 Extrace Anage: 10.1.202 10.1.202		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	13:50
SUB: T104704215-20-38 Analyzei 0.01.200 :-:<	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	15:50
ImageImageRmg/gmg/gRmg/gRmg/gmg/g<	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	19:05
Benzene		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Toluene	Benzene		< 0.0249	0.0249	< 0.000996	0.000996	< 0.0253	0.0253	< 0.0252	0.0252	< 0.0249	0.0249	< 0.0251	0.0251
Ethylbenzene 0.0502 0.0290 0.00996 0.00996 0.00996 0.0253 0.0253 0.0252 0.0252 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0259 0.0503 0.05	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
m.pXylenes 0.313 0.0497 <	Ethylbenzene		0.0502	0.0249	< 0.000996	0.000996	< 0.0253	0.0253	< 0.0252	0.0252	< 0.0249	0.0249	< 0.0251	0.0251
o-Xylene 0.191 0.0249 <0.00996 0.00996 0.0253 0.0253 0.0252 0.0252 <0.0249 0.0249 0.0251 0.0251 Total Xylenes 0.504 0.0249 <0.00996 0.00996 0.00996 0.00253 0.0253 0.0252 0.0252 <0.0249 0.0249 <0.0251 0.0251 0.0251 0.0251 0.0252 <0.0259 <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
Total Xylenes 0.504 0.024 0.0096 0.0096 0.0253 0.0253 0.0252 0.0252 0.0249 0.0249 0.0251	o-Xylene		0.191	0.0249	< 0.000996	0.000996	< 0.0253	0.0253	< 0.0252	0.0252	< 0.0249	0.0249	< 0.0251	0.0251
Total BTEX 0.5542 0.0249 <0.00096	Total Xylenes		0.504	0.0249	< 0.000996	0.000996	< 0.0253	0.0253	< 0.0252	0.0252	< 0.0249	0.0249	< 0.0251	0.0251
TPH by SW8015 ModExtracted $0.14.202$ $\cdot \cdot$ 0.14	Total BTEX		0.5542	0.0249	< 0.000996	0.000996	< 0.0253	0.0253	< 0.0252	0.0252	< 0.0249	0.0249	< 0.0251	0.0251
Analyzei $10.15.2020$ 1	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
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		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	16:47
Gasoline Range Hydrocarbons (GRO) 113 49.8 <50.0		Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Diesel Range Organics (DRO) 5600 49.8 <50.0	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
Motor Oil Range Hydrocarbons (MRO) 253 49.8 <50.0	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
Total TPH 5966 49.8 <50	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:	675147-007		675147-0	08		
Analysis Requested	Field Id:	BH-1 (30)')	Duplicate	-1		
Απαιγείε Κετμεείεα	Depth:	30- ft					
	Matrix:	SOIL		SOIL			
	Sampled:	10.13.2020	13:00	10.13.2020 (00:00		
BTEX by SW 8260C	Extracted:	10.16.2020	19:30	10.16.2020	19:30		
SUB: T104704215-20-38	Analyzed:	10.17.2020	07:24	10.17.2020 (07:44		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene		<0.000990	0.000990	<0.000996	0.000996		
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	0.000996		
Total BTEX		< 0.00099	0.00099	<0.000996	0.000996		
TPH by SW8015 Mod	Extracted:	10.16.2020	08:00	10.14.2020	17:00		
	Analyzed:	10.16.2020	17:06	10.15.2020	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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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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Abo to Centurion Station

Sample Id: BH-1 (0-1') Lab Sample Id: 675147-001	Matrix:	Soil	Date Received	l:10.14.2020 15:23
	Date Collected	1: 10.13.2020 13:00	Sample Depth	: 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	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	Wat Waight
Seq Number:	3140277			SUB: T104704	4215-20-38

Parameter	Cas Numbe	er 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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Abo to Centurion Station

Sample Id: BH-1 (5') Lab Sample Id: 675147-002		Matrix: Date Collected	Soil : 10.13.2020 13:10	Date Received:10.14.2020 15:23 Sample Depth: 5 ft		
Analytical Me	thod: TPH by SW8015 M	ſod			Prep Method:	SW8015P
Tech: Analyst:	DVM ARM		Date Prep:	10.14.2020 17:00	% Moisture:	XX7 + XX7 * 1 +
Seq Number:	3139760		Ĩ		Basis:	wet Weight
D						

Parameter	Cas Numbe	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:	Wat Waight
Seq Number:	3139995			SUB: T104704	4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996		mg/kg	10.17.2020 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 Received	d:10.14.2020 15:23
	Date Collected	l: 10.13.2020 13:20	Sample Depth	n: 10 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 Numbe	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	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	W/-4 W/-:-1-4
Seq Number:	3140277			SUB: T104704	4215-20-38

Parameter	Cas Numbe	er 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	< 0.12	6 0.126		mg/kg	10.21.2020 18:03	U	25
Ethylbenzene	100-41-4	< 0.025	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	< 0.025	3 0.0253		mg/kg	10.21.2020 18:03	U	25
Total Xylenes	1330-20-7	< 0.025	3 0.0253		mg/kg	10.21.2020 18:03	U	25
Total BTEX		< 0.025	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')	Matrix:	Soil	Date Received Sample Depth	l:10.14.2020 15:23
Lab Sample Id	1: 675147-004	Date Collected	: 10.13.2020 13:30		: 15 ft
Analytical Me Tech: Analyst: Seq Number:	thod: TPH by SW8015 Mod DVM ARM 3139760	Date Prep:	10.14.2020 17:00	Prep Method: % Moisture: Basis:	SW8015P Wet Weight

Parameter	Cas Numbe	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	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	W/-4 W/-:-1-4
Seq Number:	3140277	-		SUB: T104704	4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.025	2 0.0252		mg/kg	10.21.2020 18:23	U	25
Toluene	108-88-3	< 0.12	6 0.126		mg/kg	10.21.2020 18:23	U	25
Ethylbenzene	100-41-4	< 0.025	2 0.0252		mg/kg	10.21.2020 18:23	U	25
m,p-Xylenes	179601-23-1	< 0.050	3 0.0503		mg/kg	10.21.2020 18:23	U	25
o-Xylene	95-47-6	< 0.025	2 0.0252		mg/kg	10.21.2020 18:23	U	25
Total Xylenes	1330-20-7	< 0.025	2 0.0252		mg/kg	10.21.2020 18:23	U	25
Total BTEX		< 0.025	2 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 Received	d:10.14.2020 15:23
	Date Collected	1: 10.13.2020 13:40	Sample Depth	:: 20 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	<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	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	W/-4 W/-:-1-4
Seq Number:	3140277	-		SUB: T104704	4215-20-38

Parameter	Cas Numbe	er 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	4 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	9 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 Received	d:10.14.2020 15:23
	Date Collected	1: 10.13.2020 13:50	Sample Depth	:: 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 Numbe	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 Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	W/-4 W/-:-1-4
Seq Number:	3140277			SUB: T104704	4215-20-38

Parameter	Cas Numbe	er 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	5 0.125		mg/kg	10.21.2020 19:05	U	25
Ethylbenzene	100-41-4	< 0.025	0.0251		mg/kg	10.21.2020 19:05	U	25
m,p-Xylenes	179601-23-1	< 0.050	0.0501		mg/kg	10.21.2020 19:05	U	25
o-Xylene	95-47-6	< 0.025	0.0251		mg/kg	10.21.2020 19:05	U	25
Total Xylenes	1330-20-7	< 0.025	0.0251		mg/kg	10.21.2020 19:05	U	25
Total BTEX		< 0.025	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')	Matrix:	Soil	Date Received	l:10.14.2020 15:23
Lab Sample Id	: 675147-007	Date Collected	: 10.13.2020 13:00	Sample Depth	: 30 ft
Analytical Met Tech: Analyst: Seq Number:	thod: TPH by SW8015 Mod DVM ARM 3139996	Date Prep:	10.16.2020 08:00	Prep Method: % Moisture: Basis:	SW8015P Wet Weight

Parameter	Cas Numbe	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			SUB: T104704	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: I Lab Sample Id: 6	Duplicate-1 575147-008		Matrix: Date Colle	ected	Soil : 10.13.2020 00:00		Date Received	1:10.14	.2020 15:2	.3
Analytical Metho Tech: D	od: TPH by SW8015 M DVM	lod					Prep Method:	SW80	015P	
Analyst:ASeq Number:31	RM 139760		Date Prep:	:	10.14.2020 17:00		% Moisture: Basis:	Wet V	Weight	
Parameter		Cas Number	Result	RL		Units	Analysis Da	ate	Flag	Dil

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 Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NAL				
Analyst:	NAL	Date Prep:	10.16.2020 19:30	% Moisture:	W-4 W-:-14
Seq Number:	3139995			SUB: T104704	4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	6 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	5 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	6 0.000996		mg/kg	10.17.2020 07:44	U	1
Total Xylenes	1330-20-7	< 0.000996	6 0.000996		mg/kg	10.17.2020 07:44	U	1
Total BTEX		<0.000996	5 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 Det	ection Limit	LOD Limit of Detection	
PQL	Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitation	n
DL	Method Detection Limit				
NC	Non-Calculable				
SMP	Client Sample		BLK	Method Blank	
BKS/I	LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	catory Control Sample Duplicate
MD/S	D Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NE	LAC 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:	bd						Pi	rep Metho	od: SW	8015P			
Seq Number:	Seq Number: 3139760]	Matrix:	Solid				Date Pr	ep: 10.1	4.2020	
MB Sample Id: 7713279-1-BLK				LCS San	nple Id:	7713279-1	I-BKS	LCSD Sample Id: 7713279-1-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	ons (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	L(%]	CS Rec	LCS Flag	LCSD %Rec) LCSI c Flag	D Li g	imits	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: TPH by SW8015 Mod								Pı	ep Meth	od: SW	8015P	
3139996			Matrix: Solid						Date Pr	ep: 10.1	6.2020	
d: 7713451-1-BLK			LCS San	nple Id:	7713451-	1-BKS		LCS	D Sample	e Id: 771	3451-1-BSD	
	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
ns (GRO)	<50.0	1000	848	85	830	83	70-130	2	20	mg/kg	10.16.2020 09:09	
DRO)	<50.0	1000	924	92	902	90	70-130	2	20	mg/kg	10.16.2020 09:09	
	MB %Rec	MB Flag	L %]	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag	D Li ç	mits	Units	Analysis Date	
	97		1	03		94		70	-130	%	10.16.2020 09:09	
	115		1	08		108		70	-130	%	10.16.2020 09:09	
	TPH by S' 3139996 7713451-1 ns (GRO) DRO)	TPH by SW8015 M 3139996 7713451-1-BLK MB Result ns (GRO) <50.0 ORO) <50.0 MB %Rec 97 115	MB Spike MB Spike Result Amount ns (GRO) <50.0	MB Spike LCS NS GRO) <50.0	TPH by SW8015 Mod 3139996 Matrix: 7713451-1-BLK LCS Sample Id: MB Spike LCS LCS Result Amount Result %Rec ns (GRO) <50.0	TPH by SW8015 Mod 3139996 Matrix: Solid 7713451-1-BLK LCS Sample Id: 7713451-1 MB Spike LCS LCS LCSD Result Result Result Spike LCS LCSD LCSD Result Spike LCSD Result Spike LCSD Result Spike LCSD Result Spike Result Spike Result Spike Result Spike LCSD Result Spike Spike Result Spike <	TPH by SW8015 Mod 3139996 Matrix: Solid 7713451-1-BLK LCS Sample Id: 7713451-1-BKS MB Spike LCS LCS LCSD LCSD Result Amount Result %Rec Result %Rec ns (GRO) <50.0	TPH by SW8015 Mod 3139996 Matrix: Solid 7713451-1-BLK LCS Sample Id: 7713451-1-BKS MB Spike LCS LCS LCSD LCSD LISD MB Spike LCS LCS Solid 1000 LCSD LCSD LISD Limits ns (GRO) <50.0	MB Spike LCS LCS Result %Rec LCSD LCSD <thlcsd< th=""> LCSD LCSD <</thlcsd<>	MB Spike LCS LCS <thl< td=""><td>MB Spike LCS LCS</td><td>Prep Method: SW8015 Mod SW8015 P 3139996 Matrix: Solid Date Prep: 10.16.2020 7713451-1-BLK LCS Sample Id 7713451-1-BKS LCSD Sample Id 7713451-1-BSD MB Spike LCS LCS LCSD LCSD Result 7713451-1-BSD MB Spike LCS LCS LCSD LCSD KPD RPD LDits Analysis ns (GRO) <50.0</td> 1000 848 85 830 83 70-130 2 20 mg/kg 10.16.2020 09:09 002 09 70-130 2 20 mg/kg 10.16.2020 09:09 01.6.2020 09:09 <t< td=""></t<></thl<>	MB Spike LCS LCS	Prep Method: SW8015 Mod SW8015 P 3139996 Matrix: Solid Date Prep: 10.16.2020 7713451-1-BLK LCS Sample Id 7713451-1-BKS LCSD Sample Id 7713451-1-BSD MB Spike LCS LCS LCSD LCSD Result 7713451-1-BSD MB Spike LCS LCS LCSD LCSD KPD RPD LDits Analysis ns (GRO) <50.0

Analytical Method: TPH by SW8015 Mod				Prep Method:	SW		
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	oons (MRO)	<50.0		n	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:	SW8 10.1	8015P 6.2020	
Parameter		MB Result		τ	J nits	Analysis Date	Flag
Motor Oil Range Hydrocarb	ons (MRO)	<50.0		m	ng/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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Analytical Method: Seq Number: Parent Sample Id:	TPH by SW 3139996 675213-001	78015 M	od] MS San	Matrix: nple Id:	Soil 675213-00	01 S		Pr MSI	ep Metho Date Pro D Sample	od: SW3 ep: 10.1 e Id: 6752	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 Hydrocarbo	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				N %1	IS Rec	MS Flag	MSD %Rec	MSD Flag) Li	mits	Units	Analysis Date	
1-Chlorooctane				9	19		101		70	-130	%	10.16.2020 10:06	
o-Terphenyl				9	7		100		70	-130	%	10.16.2020 10:06	

Analytical Method: TPH by SW8015 Mod							Prep Method	: SW	8015P	
3139760			1	Matrix:	Soil		Date Prep	: 10.1	14.2020	
675064-032			MS San	nple Id:	675064-032 S					
	Parent Result	Spike Amount	MS Result	MS %Rec		Limits		Units	Analysis Date	Flag
ns (GRO)	<49.9	997	796	80		70-130		mg/kg	10.14.2020 21:43	
DRO)	<49.9	997	778	78		70-130		mg/kg	10.14.2020 21:43	
			M %1	IS Rec	MS Flag		Limits	Units	Analysis Date	
			8	32			70-130	%	10.14.2020 21:43	
			8	35			70-130	%	10.14.2020 21:43	
	TPH by SW 3139760 675064-032 ns (GRO) DRO)	TPH by SW8015 Me 3139760 675064-032 Parent Result ns (GRO) <49.9 DRO) <49.9	TPH by SW8015 Mod 3139760 675064-032 Parent Spike Result Amount ns (GRO) <49.9	TPH by SW8015 Mod 3139760 I 675064-032 MS Sam Parent Spike MS Result Amount Result ns (GRO) <49.9	TPH by SW8015 Mod 3139760 Matrix: 675064-032 MS Sample Id: Parent Spike MS MS Result Amount Result %Rec ns (GRO) <49.9	TPH by SW8015 Mod 3139760 Matrix: Soil 675064-032 MS Sample Id: 675064-032 S Parent Spike MS MS Result Amount Result %Rec ns (GRO) <49.9	TPH by SW8015 Mod 3139760 Matrix: Soil 675064-032 MS Sample Id: 675064-032 S Parent Spike MS MS Result Amount Result %Rec ns (GRO) <49.9	TPH by SW8015 Mod Prep Method 3139760 Matrix: Soil Date Prep 675064-032 MS Sample Id: 675064-032 S Parent Spike MS MS Limits Result Amount Result %Rec 70-130 DRO) <49.9	TPH by SW8015 Mod Prep Method: SW 3139760 Matrix: Soil Date Prep: 10.3 675064-032 MS Sample Id: 675064-032 S Date Prep: 10.3 Parent Spike MS MS Limits Units Result Amount Result %Rec 70-130 mg/kg DRO) <49.9	Prep Method: SW8015 P 3139760 Matrix: Soil Date Prep: 10.14.2020 675064-032 MS Sample Id: 675064-032 S Units Analysis Parent Spike MS MS MS Limits Units Analysis ns (GR0) <49.9

Analytical Method: Seq Number: MB Sample Id:	BTEX by SW 82600 3139995 7713499-1-BLK	C] LCS San	Matrix: ple Id:	Solid 7713499-1	I-BKS		Pr LCS	rep Methe Date Pr D Sample	od: SW: ep: 10.1 e Id: 771	5035A 6.2020 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	L0 %]	CS Rec	LCS Flag	LCSE %Ree) LCSI c Flag) Li	imits	Units	Analysis Date	
Dibromofluoromethane	96		9	6		99		53	-142	%	10.17.2020 01:12	
1,2-Dichloroethane-D4	100		9	2		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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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	2	l LCS San	Matrix: ple Id:	Solid 7713687-1	I-BKS		Pr LCS	rep Metho Date Pro D Sample	od: SW: ep: 10.2 e Id: 771	5035A 21.2020 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	L0 %1	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag	D Li ;	imits	Units	Analysis Date	
Dibromofluoromethane	84		10	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:	hod: BTEX by SW 8260C					Prep Method: SW5035A						
Seq Number:	3139995		Matrix: Soil						Date Prep: 10.16.2020			
Parent Sample Id:	675145-002		MS Sample Id: 675145-002		02 S MS			SD 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			M %I	IS Rec	MS Flag	MSD %Re	o MSI c Flag) Li g	mits	Units	Analysis Date	
Dibromofluoromethane			10)4		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)7		105		70	-130	%	10.17.2020 01:55	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by SW 82600 3140277 675145-004	C] MS San	Matrix: nple Id:	Soil 675145-00)4 S		Pr MS	rep Meth Date Pr D Sampl	od: SW: rep: 10.2 e Id: 675	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			N %1	IS Rec	MS Flag	MSD %Re) MSD c Flag) Li	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	

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

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3					Cha	in o	of Cus	stody		 	Work Order No:	1491
	ORATORIES	Hobbs,NM	Midland, TX (4 (575-392-7550)	.01/240-4200 432-704-5440)) Phoenix,AZ (EL Pas 480-355	o,TX (9 -0900)	902-0300 15)585-3443 Atlanta,GA	3 Lubbock,1 (770-449-88)	ייא (ביוט) סטפ- X (806)794-1 00) Tampa,F	-3334 296 L (813-620-	2000) www.xenco.com Page	of
Project Manager:	Cindy Crain		B	II to: (if different) Ci	ndy Cra	5				Work Order Comments	0
Company Name:	TRC		C	ompany Nam	e: TF	õ				Pro	ogram: UST/PST PRP Brownfields R	RC Superfund
Address:	10 Desta Dr. STE 150E		Ac	ddress:							State of Project:	
City, State ZIP:	Midland, TX 79705		C.	ity, State ZIP:						Re	porting:Level II	
Phone:	432-215-6730		Email: C	indy, Tania,	Misti						liverables: EDD 🗌 ADaPT 🗆 C	Other:
Project Name:	Abo Centurion Station		Tum	Around				A	IALYSIS R	EQUEST	Wor	rk Order Notes
Project Number:			Routine									
P.O. Number:			Rush:									
Sampler's Name:	Tania Babu		Due Da	ite:								
SAMPLE RECE	IPT Tęmp Blank:	Yes No	Wet Ice:	Yes No								
Temperature (°C):	6 h/h-h	Th	ermometer ID	(ners							
Received Intact:	(Yes No		KX		onta							
Sample Custody Sea	IS YES NO NIA	Total	Containers:		of C	50) 		<u> </u>			TAT starts	s the day recevied by the
Sample Iden	uffication Matrix	Date Sampled	Time Sampled	Depth	Numbe	BTEX (8)					Sam	nple Comments
BH-1 (0	-1') s	10/13/2020	1300 0.	-1.	-	×						
BH-1 (5') s	10/13/2020	1310 5	-		×		a dia				- run analysis
BH-1 ()	10') s	10/13/2020	1320 1	Q.	<u> </u>	×	Ê					V- HOLD
BH-1 ()	15') s	10/13/2020	1330 1	5	<u> </u>	×	Ê					
BH-1 ()	20') s	10/13/2020	1340 2	Q		×	Ê					
BH-1 ()	25') s	10/13/2020	1350 2	<u>ଜ</u> ୍		<						
BH-1 ()	30') s	10/13/2020	1400 3	õ	<u> </u>	<						
Duplica	te-1	10/13/2020	-		<u>_</u>	×						
Total 200.7 / 6	010 200.8 / 6020: (s) and Metal(s) to be au	8RCF nalyzed	RA 13PPM TCLP / SPLF	Texas 11 9 6010 : 8R(Al Sb CRA S	As Ba b As	a Be B (Ba Be (Cd Ca Ci Od Cr Co	Cu Pb N	in Mo Ni	g Mn Mo Ni K Se Ag SiO2 Na Sr Ti i Se Ag TI U 1631/245.1	1 Sn U V Zn I / 7470 / 7471 : Hg
Notice: Signature of this of service. Xenco will be of Xenco. A minimum ch	document and relinquishment o liable only for the cost of samp arge of \$75.00 will be applied to	of samples constit oles and shall not a o each project and	utes a valid purch tssume any respo a charge of \$5 fo	hase order from onsibility for any or each sample :	client co / losses (submittec	mpany te or expen I to Xenc	o Xenco, its ses incurred co, but not ar	affiliates and by the client halyzed. Thes	subcontractor if such losses e terms will be	s. It assigns are due to c enforced ur	s standard terms and conditions ircumstances beyond the control nless previously negotiated.	
Relinquished by	; (Signature)	Received	v∹(Signature	(9)ate/Tii	ne	Relinqu	ished by: ()	Signature) Received by: (Signature)	Date/Time
1 Sould					10/14/2	0	5:23	2				
3								4				
5								6				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

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IOS Number : 71847

Date/Time:	10.14.2	2020	Created by:	Brianna Te	Brianna Teel I		Please send report to: Jessica Kramer			
Lab# From	: Midla	nd	Delivery Pri	ority:		Address:	1211 W. Florida Ave			
Lab# To:	Houst	on	Air Bill No.	Air Bill No.: 771801601301		E-Mail:	jessica.kramer@eur		ırofinset.com	
Sample Id	Matrix C	lient Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
675147-001	S ^B	H-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 ^B	H-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 ^B	H-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 ^B	H-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 ^B	H-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 B	H-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 ^B	H-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 ^B	H-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 B	H-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 D	uplicate-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

Received By:	Hypotre Key
	Hypatia Keys
Date Received:	10.15.2020
Cooler Temperature:	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:

20	_ 12	
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~1	-/*	

Date: 10.15.2020

Hypatia Keys

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Temp	perature	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 Mea	asuring o	device used : IR-8				
Sample Reco	eipt 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

🔅 eurofins

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

🔅 eurofins

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:

eurofins Environment Testing Xenco

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:	675213-0	013	675213-0	014	675213-0	015	675213-	016	675213-0	17	
Analysis Requested	Field Id:	CSW-	4	CSW-	5	CSW-6		CSW-7	,	CSW-8		
Analysis Requesieu	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	13:10	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	13:00	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	16:40	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	0.000994	< 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	0.000994	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	0.000994	0.0168	0.00100	
Total Xylenes		0.00471	0.001	0.02064	0.001	< 0.001	0.001	< 0.000994	0.000994	0.0362	0.001	
Total BTEX		0.00786	0.001	0.02477	0.001	< 0.001	0.001	< 0.000994	0.000994	0.04102	0.001	
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	
Analyzed:		10.16.2020	14:53	10.16.2020	15:12	10.16.2020	15:31	10.16.2020	15:50	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

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

Jession Vramer

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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

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

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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')		Matrix:	Soil	Date Received	1:10.15.2020 10:43	
Lab Sample Id: 675213-001			Date Collected	: 10.14.2020 10:00	Sample Depth: 8 ft		
Analytical Me	thod: TPH By SW8015 Mod				Prep Method:	SW8015P	
Tech:	DVM				0/ 1 5 · ·		
Analyst:	ARM		Date Prep:	10.16.2020 08:00	% Moisture: Basis:	Wet Weight	
Seq Number:	3139996				Dubis.	wet weight	
D (0						

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 Me	thod: 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	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') Lab Sample Id: 675213-002		Matrix:	Soil	Date Received:10.15.2020 10:43	
		Date Collected	: 10.14.2020 10:10	Sample Depth: 3 ft	
Analytical Me Tech: Analyst: Seq Number:	thod: TPH By SW8015 Mod DVM ARM 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	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	thod: 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			SUB: T104704	4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.23.2020 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')		Matrix:	Soil	Date Received	1:10.15.2020 10:43	
Lab Sample Id: 675213-003			Date Collected	: 10.14.2020 10:20	Sample Depth: 2 ft		
Analytical Me	ethod: TPH By SW8015 M	Iod			Prep Method:	SW8015P	
Tech:	DVM						
Analyst:	ARM		Date Prep:	10.16.2020 08:00	% Moisture: Basis:	Wet Weight	
Seq Number:	3139996				Du313.	wet weight	
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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 Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NAL				
Analyst:	NAL	Date Prep:	10.16.2020 19:30	% Moisture:	***
Seq Number:	3139995	1		Basis: SUB: T10470	Wet Weight 4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000992	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		Matrix:	Soil	Date Received	1:10.15.2020 10:43	
Lab Sample Id: 675213-004			Date Collected	1: 10.14.2020 10:30	Sample Depth: 1 ft		
Analytical Me	thod: TPH By SW8015 M	od			Prep Method:	SW8015P	
Tech:	DVM				0/) ()		
Analyst:	ARM		Date Prep:	10.16.2020 08:00	% Moisture: Basis:	Wet Weight	
Seq Number:	3139996				Dusis.	wet weight	
D (

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 11:23	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 Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	*** . *** * 1 .
Seq Number:	3140277	1		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		

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HEP Abo to Centurion

Sample Id:CSW-2Lab Sample Id:675213-005	Matrix:	Soil	Date Received:10.15.2020 10:43		
	Date Collected	: 10.14.2020 10:40	Sample Depth: 1.5 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 Numbe	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 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 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: Date Collected	Soil : 10.14.2020 10:50	DilDate ReceivedD.14.2020 10:50Sample Depth:	
Analytical Me Tech: Analyst: Seq Number:	thod: TPH By SW8015 Mod DVM ARM 3139996	Date Prep:	10.16.2020 08:00	Prep Method: % Moisture: Basis:	SW8015P 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 Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.21.2020 15:50	% Moisture:	*** . *** * 1 .
Seq Number:	3140277	ľ		SUB: T104704	Wet Weight 4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	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: Lab Sample Id	Duplicate-1 l: 675213-007		Matrix: Date Collecte	Soil d: 10.14.2020 00:00		Date Received	1:10.15	5.2020 10:4	3
Analytical Me Tech: Analyst: Seq Number:	thod: TPH By SW8015 M DVM ARM 3139996	Иod	Date Prep:	10.16.2020 08:00		Prep Method: % Moisture: Basis:	SW8	015P Weight	
Parameter		Cas Number 1	Result RI		Units	Analysis Da	ate	Flag	Dil

1 urumeter	Cubittunibe	1 100000	RL		Onus	Analysis Date	Tiag	DI	
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 Me	thod: 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: T10470	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		

TRC Solutions, Inc, Midland, TX

HEP Abo to Centurion

Sample Id: Stockpile		Matrix	Soil			Date Received:	10.15.2020 1	0:43
Lab Sample Id: 675213-008		Date C	ollected: 10.1	4.2020 11:00				
Analytical Method: Chloride by EPA	A 300					Prep Method:	E300P	
Tech: CHE								
Analyst: CHE		Date Pr	rep: 10.1	16.2020 16:50		% Moisture:		
Seq Number: 3139954			1			Basis:	Wet Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Da	te Flag	Dil
Chloride	16887-00-6	119	50.2		mg/kg	10.16.2020 20:	:25	10
Analytical Method:TPH By SW801Tech:DVMAnalyst:ARMSeq Number:3139996	5 Mod	Date Pr	rep: 10.1	16.2020 08:00		Prep Method: % Moisture: Basis:	SW8015P Wet Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Da	te Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	294	49.8		mg/kg	10.16.2020 12:	:39	1
Diesel Range Organics (DRO)	C10C28DRO	3530	49.8		mg/kg	10.16.2020 12:	:39	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	233	49.8		mg/kg	10.16.2020 12:	:39	1
Total TPH								
	PHC635	4057	49.8		mg/kg	10.16.2020 12:	:39	1
Surrogate	PHC635	4057 Cas Number	49.8 % Recovery	Units	mg/kg Limits	10.16.2020 12: Analysis E	:39 Date Flag	1
Surrogate 1-Chlorooctane	PHC635	4057 Cas Number 111-85-3	49.8 % Recovery 127	Units %	mg/kg Limits 70-130	10.16.2020 12: Analysis E 10.16.2020 1	:39 Date Flag 12:39	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: 10.1	4.2020 11:00				
Analytical Method: BTEX by S	W 8260C					Prep Method: SW5	035A	
Tech: NGA								
Analyst: NGA		Date P	rep: 10.2	1.2020 15:50		% Moisture:		
Seq Number: 3140277			I			SUB: T104704215-2	Weight 20-38	
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

2037-26-5

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10.21.2020 20:49

TRC Solutions, Inc, Midland, TX

Sample Id:	CS-4 (2')		Matrix:	Soil	Date Received	1:10.15.2020 10:43	
Lab Sample Id: 675213-009			Date Collected	1: 10.14.2020 12:00	Sample Depth: 2 ft		
Analytical Me	ethod: TPH By SW8015	Mod			Prep Method:	SW8015P	
Tech:	DVM						
Analyst:	ARM		Date Prep:	10.16.2020 08:00	% Moisture: Basis:	Wet Weight	
Seq Number:	3139996				Dasis.	wet weight	
D							

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 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 Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	AMW				
Analyst:	AMW	Date Prep:	10.23.2020 08:00	% Moisture:	Wat Waight
Seq Number:	3140539			SUB: T104704	4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.23.2020 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		

TRC Solutions, Inc, Midland, TX

HEP Abo to Centurion

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

Parameter	Cas Numbe	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	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	AMW				
Analyst:	AMW	Date Prep:	10.23.2020 08:00	% Moisture:	Wat Waight
Seq Number:	3140539			SUB: T10470	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 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		

TRC Solutions, Inc, Midland, TX

Sample Id:	CS-6 (2')		Matrix:	Soil	Date Received	1:10.15.2020 10:43	
Lab Sample Id: 675213-011			Date Collected	1: 10.14.2020 12:20	Sample Depth: 2 ft		
Analytical Me	ethod: TPH By SW8015	Mod			Prep Method:	SW8015P	
Tech:	DVM						
Analyst:	ARM		Date Prep:	10.16.2020 08:00	% Moisture: Basis:	Wet Weight	
Seq Number:	3139996				Da313.	wet weight	
D (

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 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 Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	AMW				
Analyst:	AMW	Date Prep:	10.23.2020 13:00	% Moisture:	X7 / X7 · 1 /
Seq Number:	3140539			SUB: T104704	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		

TRC Solutions, Inc, Midland, TX

Sample Id: CS-7 (2')		Matrix: Soil		Date Received:10.15.2020 10:4		
Lab Sample Id: 675213-012		Date Collected: 10.14.2020 12:30		Sample Depth: 2 ft		
Analytical Me Tech: Analyst: Seq Number:	thod: TPH By SW8015 Mod DVM ARM 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 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:	XX7 / XX7 * 1 /
Seq Number:	3140386			SUB: T10470	4215-20-38

Parameter	Cas Numbe	er 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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Certificate of Analytical Results 675213

TRC Solutions, Inc, Midland, TX

HEP Abo to Centurion

Sample Id:	CSW-4		Matrix:	Soil		Date Received	1:10.15.2020	10:43
Lab Sample Id: 675213-013			Date Collec	ted: 10.14.2020 12:40				
Analytical Me	thod: TPH By SW8015 M	Mod				Prep Method:	SW8015P	
Tech:	DVM							
Analyst:	ARM		Date Prep:	10.16.2020 08:00		% Moisture: Basis:	Wet Weigh	t
Seq Number:	3139996					Dusis.	wet weigh	ı
D			D14		-			
Parameter		Cas Number	Kesuit	KL	Units	Analysis Da	ate Flag	Dil

					eme	111111301012400	8	21
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	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	NGA				
Analyst:	NGA	Date Prep:	10.22.2020 17:30	% Moisture:	*** . *** * 1 .
Seq Number:	3140465			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	10.23.2020 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		

TRC Solutions, Inc, Midland, TX

HEP Abo to Centurion

Sample Id:	CSW-5		Matrix:	Soil		Date Received	1:10.15.20	20 10:4	3
Lab Sample Id: 675213-014			Date Collected	Date Collected: 10.14.2020 12:50					
Analytical Me	thod: TPH By SW8015 M	/lod				Prep Method:	SW8015	Р	
Tech:	DVM								
Analyst:	ARM		Date Prep:	10.16.2020 08:00		% Moisture:	Wat Wai	aht	
Seq Number:	3139996					Dasis.	wet wei	gni	
Parameter		Cas Number I	Result RI		Units	Analysis D	ate Fl	ne	Dil

T ar ameter	Cas Munibe	i ittsuit	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 Me	thod: 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	< 0.00100	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		

TRC Solutions, Inc, Midland, TX

HEP Abo to Centurion

Sample Id:	CSW-6		Matrix:	Soil	Date Receive	d:10.15.2020 10:43	
Lab Sample IC	1: 6/5213-015		Date Collected	: 10.14.2020 13:00			
Analytical Me	thod: TPH By SW8015 M	lod			Prep Method:	SW8015P	
Tech:	DVM						
Analyst:	ARM		Date Prep:	10.16.2020 08:00	% Moisture:	Wat Waight	
Seq Number:	3139996				Dasis.	wet weight	
Paramotor		Cas Number B	ocult DI	T	nita Analysia D	oto Flog I	D: 1

T ar ameter	Cus rumbe	i itesuit	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 Me	thod: 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			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	10.23.2020 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		

TRC Solutions, Inc, Midland, TX

HEP Abo to Centurion

Sample Id: CSV	V-7	Matrix:	Soil		Date Received	l:10.15	.2020 10	:43
Lab Sample Id: 6752	213-016	Date Collec	eted: 10.14.2020 13:10					
Analytical Method:	TPH By SW8015 Mod				Prep Method:	SW8	015P	
Tech: DVM	[
Analyst: ARM	ĺ	Date Prep:	10.16.2020 08:00		% Moisture:	W-4 1	V. : - 1- 4	
Seq Number: 3139	996				Dasis.	wet	weight	
Parameter	Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil
	ant and (CBO) DUC(10	-50.0	50.0		10.16.2020.14	5.50	T	1

Gasonnie Kange Hydrocarbons (GKO)	FICOIO	<50.0	50.0		mg/kg	10.10.2020 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			

Analytical Me	thod: BTEX by SW 8260C			Prep Method:	SW5035A
Tech:	AMW				
Analyst:	AMW	Date Prep:	10.23.2020 13:00	% Moisture:	
Seq Number:	3140539	1		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	4 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	4 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	4 0.000994		mg/kg	10.23.2020 16:40	U	1
Total Xylenes	1330-20-7	< 0.000994	4 0.000994		mg/kg	10.23.2020 16:40	U	1
Total BTEX		< 0.000994	4 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		

TRC Solutions, Inc, Midland, TX

HEP Abo to Centurion

Sample Id: Lab Sample Id	CSW-8		Matrix: Date Collecter	Soil d: 10 14 2020 13:20		Date Received	1:10.15.2020 10:4	43
Analytical Me	thod: TPH By SW8015 M	Mod	Date Concert	u. 10.14.2020 13.20		Prep Method:	SW8015P	
Analyst: Seq Number:	ARM 3139996		Date Prep:	10.16.2020 08:00		% Moisture: Basis:	Wet Weight	
Parameter		Cas Number 1	Result BI		Unite	Analysis D	ato Flag	ъя

1 al alletel	Cas Mullibe	i Ktsuit	KL		Units	Analysis Date	riag	DI
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:	W-4 W-:-1-4
Seq Number:	3140539	-		SUB: T104704	4215-20-38

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00100	0.00100		mg/kg	10.23.2020 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 Det	ection Limit	LOD Limit of Detection	
PQL	Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitation	n
DL	Method Detection Limit				
NC	Non-Calculable				
SMP	Client Sample		BLK	Method Blank	
BKS/I	LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	catory Control Sample Duplicate
MD/S	D Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NE	LAC 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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QC Summary 675213

TRC Solutions, Inc

HEP Abo to Centurion

Analytical Method:	Chloride by	EPA 30	0	Matrice Calid					Prep Method: E300P				
Seq Number:	3139954			LOGG	Matrix:	Solid	DVG		I CO	Date Pr	ep: 10.1	6.2020	
MB Sample Id:	7713445-1-I	BLK		LCS San	nple Id:	7/13445-1	I-BKS		LCS	D Sample	e Id: 77/1	3445-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		<5.00	250	251	100	251	100	90-110	0	20	mg/kg	10.16.2020 19:09	
Analytical Method:	Chloride by	EPA 30	0						Pı	ep Metho	od: E30	0P	
Seq Number:	3139954				Matrix:	Soil			1 (6)	Date Pr	ep: 10.1	6.2020	
Parent Sample Id:	675138-014			MS Sar	nple Id:	6/5138-01	14 S		MS	D Sample	e Id: 675	138-014 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		128	255	424	116	410	111	90-110	3	20	mg/kg	10.16.2020 19:28	х
Analytical Method: Seq Number:	Chloride by 3139954	EPA 30	0		Matrix:	Soil			Pı	ep Metho Date Pr	od: E30 ep: 10.1	0P 6.2020	
Parent Sample Id:	675266-003			MS Sar	nple Id:	675266-00)3 S		MS	D Sample	e Id: 675	266-003 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		1170	2500	4030	114	3940	111	90-110	2	20	mg/kg	10.16.2020 20:57	Х
Analytical Method: Seq Number:	TPH By SW 3139996	/8015 M	od		Matrix:	Solid			Pı	ep Methe Date Pr	od: SW3 ep: 10.1	8015P 6.2020	
MB Sample Id:	7713451-1-H	BLK		LCS San	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 Hydrocarbo	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) LCSI c Flag	D Li g	mits	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 SW	/8015 M	od						Pı	ep Metho	od: SW	8015P	
Seq Number:	3139996			MB San	Matrix: nple Id:	Solid 7713451-1	l-BLK			Date Pr	ep: 10.1	6.2020	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocarb	oons (MRO)			<50.0							mg/kg	10.16.2020 08:50	

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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Analytical Method: TPH By SW8015 Mod								Pi	rep Meth	od: SW3	8015P	
3139996			1	Matrix:	Soil				Date Pr	ep: 10.1	6.2020	
675213-001			MS San	nple Id:	675213-001 S			MS	D Sample	e Id: 675	213-001 SD	
	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
ns (GRO)	<49.9	997	802	80	824	82	70-130	3	20	mg/kg	10.16.2020 10:06	
ORO)	80.8	997	915	84	937	86	70-130	2	20	mg/kg	10.16.2020 10:06	
			N %1	IS Rec	MS Flag	MSD %Red	MSD c Flag) Li ç	imits	Units	Analysis Date	
1-Chlorooctane			99			101		70	-130	%	10.16.2020 10:06	
p-Terphenyl		97		100			70-130 %		%	10.16.2020 10:06		
	TPH By SW 3139996 675213-001 ns (GRO) DRO)	TPH By SW8015 M 3139996 675213-001 Parent Result ns (GRO) <49.9 DRO) 80.8	TPH By SW8015 Mod 3139996 675213-001 Parent Spike Result Amount ns (GRO) <49.9	TPH By SW8015 Mod 3139996 1 675213-001 MS Sam Parent Spike MS Result Amount Result ns (GRO) <49.9	TPH By SW8015 Mod 3139996 Matrix: 675213-001 MS Sample Id: Parent Spike MS MS Result Amount Result %Rec ns (GRO) <49.9	TPH By SW8015 Mod 3139996 Matrix: Soil 675213-001 MS Sample Id: 675213-00 Parent Spike MS MSD Result Amount Result %Rec Result ns (GRO) <49.9	TPH By SW8015 Mod 3139996 Matrix: Soil 675213-001 MS Sample Id: 675213-001 S Parent Spike MS MS MSD MSD Result Amount Result %Rec Result %Rec ns (GRO) <49.9	TPH By SW8015 Mod 3139996 Matrix: Soil 675213-001 MS Sample Id: 675213-001 S Parent Spike MS MS MSD MSD Limits Result Amount Result %Rec Result %Rec ns (GRO) <49.9	TPH By SW8015 Mod Pri 3139996 Matrix: Soil 675213-001 MS Sample Id: 675213-001 S MS Parent Spike MS MS MSD MSD Limits %RPD Result Amount Result %Rec Result %Rec 70-130 3 DRO) <49.9	Prep Meth 3139996 Matrix: Soil Date Pr 675213-001 MS Sample Id: 675213-001 S MSD Sample Parent Spike MS MS MSD MSD Limits %RPD RPD Ms (GRO) <49.9	Prep Method: SW3 3139996 Matrix: Soil Date Prep: 10.1 675213-001 MS Sample Id: 675213-001 S MSD Sample Id: 6752 Parent Spike Result Amount MS MS MS MS Result %Rec MSD KRPD RPD Limits RPD Limits ns (GRO) <49.9	Prep Method: SW8015 Mod 3139996 Matrix: Soil Date Prep: 10.16.2020 675213-001 MS Sample Id: 675213-001 S MSD Sample Id: 675213-001 SD Prep Method: SW8015P 675213-001 MS Sample Id: 675213-001 SD MSD Sample Id: 675213-001 SD Prep Method: SW8015P Prep Method: SW8015P 675213-001 MS Sample Id: 675213-001 SD MS MSD MSD MSD MSD MSD MSD MSD MSD MSD M

Analytical Method:	BTEX by SW 82600					Pı	ep Meth	od: SW	5035A			
Seq Number:	3139995]	Matrix:	Solid				Date Pr	ep: 10.1	6.2020	
MB Sample Id:	7713499-1-BLK		LCS San	nple Id:	7713499-1	I-BKS	BKS LCSD Sa			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	L(%)	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag	D Li ;	mits	Units	Analysis Date	
Dibromofluoromethane	96		9	96		99		53	-142	%	10.17.2020 01:12	
1,2-Dichloroethane-D4	100		9	02		104		53	-150	%	10.17.2020 01:12	
Toluene-D8	96		1	00		101		70	-130	%	10.17.2020 01:12	

Analytical Method:	BTEX by SW 82600	2		Prep Method: SW5035A								
Seq Number:	3140277			Matrix:	Solid				Date Pr	rep: 10.2	21.2020	
MB Sample Id:	7713687-1-BLK		LCS San	nple Id:	7713687-1-BKS			LCSD Sample Id: 7713687-1-			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	L4 %]	CS Rec	LCS Flag	LCSI %Re) LCS c Flag	D Li g	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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Analytical Method:	BTEX by SW 82600	2						P	rep Meth	od: SW	5035A	
Seq Number:	3140386]	Matrix:	Solid				Date Pr	rep: 10.2	2.2020	
MB Sample Id:	7713755-1-BLK		LCS San	ple Id:	7713755-1	I-BKS		LCS	D Sampl	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	L0 %]	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag	D Li	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-BSE				5035A 22.2020 3823-1-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	L0 %]	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag	D Li g	imits	Units	Analysis Date	
Dibromofluoromethane	91		1	02		92		53	-142	%	10.22.2020 20:49	
1,2-Dichloroethane-D4	98		10	06		87		53	-150	%	10.22.2020 20:49	
Toluene-D8	96		9	5		97		70	-130	%	10.22.2020 20:49	

Analytical Method: Seq Number: MB Sample Id:	BTEX by SW 8260C 3140539 7713835-1-BLK		LCS San	Matrix: nple Id:	Solid 7713835-1	I-BKS		Pr LCS	rep Meth Date Pr D Sample	od: SW: rep: 10.2 e Id: 771	5035A 23.2020 3835-1-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	L0 %]	CS Rec	LCS Flag	LCSI %Re) LCSI c Flag	D Li	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		9	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

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Analytical Method: Seq Number: Parent Sample Id:	BTEX by SW 82600 3139995 675145-002	Matrix: Soil MS Sample Id: 675145-002 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			M %1	IS Rec	MS Flag	MSD %Re	o MSD c Flag	Li	imits	Units	Analysis Date	
Dibromofluoromethane			10)4		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)7		105		70	-130	%	10.17.2020 01:55	

Analytical Method:	alytical Method: BTEX by SW 8260C					Prep Method: SW5035A						
Seq Number:	3140277		1	Matrix:	Soil				Date Pr	ep: 10.2	21.2020	
Parent Sample Id:	675145-004		MS San	nple Id:	675145-00)4 S		MS	D Sampl	e Id: 675	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			M %I	IS Rec	MS Flag	MSD %Re	o MSI c Flag) Li g	imits	Units	Analysis Date	
Dibromofluoromethane			10)5		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:	BTEX by SW 82600	2						P	rep Meth	od: SW	5035A	
Seq Number:	3140386]	Matrix:	Soil				Date Pr	ep: 10.2	22.2020	
Parent Sample Id:	675213-012		MS San	nple Id:	675213-01	2 S		MS	D Sampl	e Id: 675	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			N %]	IS Rec	MS Flag	MSD %Re	o MSD c Flag		imits	Units	Analysis Date	
Dibromofluoromethane			1	05		108		53	-142	%	10.22.2020 11:06	
1,2-Dichloroethane-D4			9	9		90		53	-150	%	10.22.2020 11:06	
Toluene-D8			9	96		95		70	-130	%	10.22.2020 11:06	

$$\begin{split} & [D] = 100 \ (CAF) \ [C+E) \ | \\ & [D] = 100 \ (C) \ [B] \\ & Log \ Diff. = Log(Sample \ Duplicate) - Log(Original \ Sample) \end{split}$$

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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Analytical Method: Seq Number: Parent Sample Id:	BTEX by SW 82600 3140465 675851-004	С	MS Sam	Matrix: ple Id:	Soil 675851-00	04 S		Pi MS	rep Meth Date Pr D Sampl	od: SW: rep: 10.2 e Id: 675	5035A 2.2020 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			М %Б	S lec	MS Flag	MSD %Re	o MSE c Flag) Li g	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:	BTEX by SW 82600 3140539	C	1	Matrix:	Soil		Prep Methoo Date Prep	l: SW p: 10.2	5035A 23.2020	
Parent Sample Id:	675213-009		MS San	nple Id:	675213-009 S					
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			M %1	IS 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			10	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

Project Manager: Lindy Crain	Bill to: (if different)		www.xenco.com	Page 1 of 2
Company Name: TRC	Company Name		Work Order Co	mments
Address: 10 Dester Dr., she 150E	Address:		Program: UST/PST PRP Brownfi	elds RRC Superfund
City, State ZIP: Midland, TX 79705	City. State 7IP		State of Project:	
Phone: 432-215-6730 Email:	Cinty Mich		Reporting: Level II Level III PST/U	
Project Name: HEP Abo to (2 MUCON Jurn	Around	14114	Deliverables: EDD LJ ADaPT L	J Other:
Project Number: 390412 Routine	Rush Pres.	ANALYSIS REQ		Preservative Codes
Project Location: Arksin, NM Due Date	Code		No	ne: NO DI Water: H ₂ C
Nampler's Name: Mish Terrer TAT starts the PO #: the lab if rore	e day received by			iol: Cool MeOH: Me
SAMPLE RECEIPT Temp.Blank: Yes No Wet Inc.	ters		H ₂ S	S04: H2 NaOH: Na
Samples Received Intact: Yes No Thermometer ID:	ame	60	Hat	904: HP
Sample Custody Seals: Yes No N/A Tomoration Factor:	Pa 301	82	Na	HSO4: NABIS
Total Containers: Corrected Temperature:	+	SX	Zn	Acetate+NaOH: Zn
Sample Identification Matrix Sampled Sampled L	Depth Grab/ # of	ST		STITASCUIDIC ACID: SAPC
$\frac{1}{10000000000000000000000000000000000$	8. CH 1 X X			
(s-3(2') 1020	2			
	NA C			
5 m - 3 10 10 10 10 10 10 10 10 10 10 10 10 10				
S-4 (2)		X		
2 0121 A A (.2) 5 - 5	2. 2 4 4 4			
Cle Method(s) and Metal(s) to be analyzed TCLP / SPLP	Texas 11 AI Sb As Ba 6010: 8RCRA Sb As B	Be B Cd Ca Cr Co Cu Fe Pb Mg	J Mn Mo Ni K Se Ag SiO ₂ Na Sr	TI Sn U V Zn
ervice. Eurofins Xenco will be liable only for the cost of samples constitutes a value purcha urofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge	ase order from client company to E any responsibility for any losses or e e of \$5 for each earned automatic	rofins Xenco, its affiliates and subcontractors. It as penses incurred by the client if such losses are du	ssigns standard terms and conditions to circumstances beyond the control	
Work To To Hand Hand Hand	b) Date/Tim	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	,	× ×		

: 08/25/2020 Rev. 2020

Project language Cold A Control Manuel Sille c is dimend Wink 2000 control Wink 200	Project Manager: Cody Crain/ (advas: Billio (if afferen) Will with afferen) Will with afferen Addrass: IO Dockhel Dr., S.K. 150E Andress: Company Name: Project Name Project Name: Project Name:
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Inter-Office Shipment

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IOS Number : **71869**

Lab# From:Mid I andDelivery Priority:Address: 1211 W. Florida AveLab# To:HoustonAir Bill No.: 771814028540 E-Mail:jessica.kramer@eurofinset.coSample IdMatrixClient Sample IdSample CollectionMethodMethod NameLab DueHT DuePMAm $675213-001$ S $CS-1(8)$ 10.14.2020 10:00SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME $675213-002$ S $CS-2(3)$ 10.14.2020 10:10SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME $675213-004$ S $CS-4(3)$ 10.14.2020 10:20SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME $675213-004$ S $CSW-1$ 10.14.2020 10:30SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME $675213-004$ S $CSW-1$ 10.14.2020 10:30SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME $675213-004$ S $CSW-1$ 10.14.2020 10:30SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME $675213-004$ S $CSW-1$ 10.14.2020 10:30SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME	
Lab# To:HoustonAir Bill No.:771814028540E-Mail:jessica.krame@eurofinset.comSample IdMatrixClient Sample IdSample CollectionMethodMethod NameLab DueHT DuePMAm675213-001SCS-1 (8)10.14.2020 10:00SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME675213-002SCS-2 (3)10.14.2020 10:10SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME675213-003SCS-3 (2)10.14.2020 10:20SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME675213-004SCSW-110.14.2020 10:30SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME675213-004SCSW-110.14.2020 10:30SW8260CBTEXBTEX by SW 8260C10.21.202010.28.2020JKRBZ BZME	
Sample Id Matrix Client Sample Id Sample Collection Method Method Name Lab Due HT Due PM An 675213-001 S CS-1 (8) 10.14.2020 10:00 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMH 675213-002 S CS-2 (3) 10.14.2020 10:10 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMH 675213-003 S CS-3 (2) 10.14.2020 10:20 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMH 675213-003 S CS-3 (2) 10.14.2020 10:20 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMH 675213-004 S CSW-1 10.14.2020 10:30 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMH	
675213-001 S CS-1 (8) 10.14.2020 10:00 SW 8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMI 675213-002 S CS-2 (3) 10.14.2020 10:10 SW 8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMI 675213-003 S CS-3 (2) 10.14.2020 10:20 SW 8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMI 675213-004 S CSW-1 10.14.2020 10:30 SW 8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMI	es Sign
675213-002 S CS-2 (3) 10.14.2020 10:10 SW 8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMI 675213-003 S CS-3 (2) 10.14.2020 10:20 SW 8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMI 675213-004 S CSW-1 10.14.2020 10:30 SW 8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMI	3Z 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 BZMI 675213-004 S CSW-1 10.14.2020 10:30 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMI	3Z 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	3Z XYLENE
	3Z XYLENE
675213-005 S ^{CSW-2} 10.14.2020 10:40 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMH	3Z XYLENE
675213-006 S ^{CSW-3} 10.14.2020 10:50 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMH	3Z XYLENE
675213-007 S ^{Duplicate-1} 10.14.2020 00:00 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMH	3Z XYLENE
675213-008 S Stockpile 10.14.2020 11:00 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMF	BZ 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 BZMH	3Z XYLENE
675213-010 S ^{CS-5 (2)} 10.14.2020 12:10 SW8260CBTEX BTEX by SW 8260C 10.21.2020 JKR BZ BZMF	BZ XYLENE
675213-011 S ^{CS-6 (2)} 10.14.2020 12:20 SW8260CBTEX BTEX by SW 8260C 10.21.2020 JKR BZ BZMF	BZ 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 BZMH	3Z XYLENE
675213-013 S ^{CSW-4} 10.14.2020 12:40 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMF	BZ XYLENE
675213-014 S ^{CSW-5} 10.14.2020 12:50 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMH	3Z XYLENE
675213-015 S ^{CSW-6} 10.14.2020 13:00 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMH	3Z XYLENE
675213-016 S ^{CSW-7} 10.14.2020 13:10 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMH	3Z XYLENE
675213-017 S ^{CSW-8} 10.14.2020 13:20 SW8260CBTEX BTEX by SW 8260C 10.21.2020 10.28.2020 JKR BZ BZMF	3Z 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 sam	oles Ac	ceptable Range: Ambient			
Work Order #: 675213	Temperature Measuring device used : IR8					
Sample Rece	eipt 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?		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: Button Tall Brianna Teel

Date: 10.15.2020

Checklist reviewed by: Jession Vermer

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

)4		
)		
4:30		
7:00		
07:05		
RL		
50.0		
50.0		
50.0		
50		
[4]]	4:30 7:00 7:05 RL 50.0 50.0 50.0 50.0	4:30 7:00 7:05 RL 50.0 50.0 50.0 50.0

BRL - Below Reporting Limit

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

Jession Vramer

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Analytical Report 678749

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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.

eurofins Environment Testing Xenco

Diesel Range Organics (DRO)

Certificate of Analytical Results 678749

TRC Solutions, Inc, Midland, TX

HEP Abo to Centunion

Sample Id: CS-2 (5')		Matrix:	Soil		Date Received	1:11.23.2	2020 10:	05
Lab Sample Id: 678749-001		Date Colle	ected: 11.20.2020 14:00		Sample Depth	:5 ft		
Analytical Method: TPH by SW801	5 Mod				Prep Method:	SW80	15P	
Tech: DVM								
Analyst: ARM		Date Prep	: 11.24.2020 17:00		% Moisture:	W/-4 W	7-:-1-4	
Seq Number: 3143307					Dasis.	wet w	eight	
Parameter	Cas Number	Result	RL	Units	Analysis Da	ate	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.25.2020 05	5:27	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

< 50.0

C10C28DRO

11.25.2020 05:27

mg/kg

U

1

Xenco

Environment Testing

🔅 eurofins

Certificate of Analytical Results 678749

TRC Solutions, Inc, Midland, TX

HEP Abo to Centunion

Sample Id:CS-3 (5')Matrix:SoilDate Received:11.23.2020 10:0Lab Sample Id:678749-002Date Collected: 11.20.2020 14:10Sample Depth: 5 ftAnalytical Method:TPH by SW8015 ModPrep Method:SW8015PTech:DVMDate Prep:11.24.2020 17:00% Moisture: Basis:Wat Weight	Number: 3143307				Dasis.	wei	weight	
Sample Id:CS-3 (5')Matrix:SoilDate Received:11.23.2020 10:0Lab Sample Id:678749-002Date Collected: 11.20.2020 14:10Sample Depth: 5 ftAnalytical Method:TPH by SW8015 ModPrep Method:SW8015PTech:DVM% Moisture:% Moisture:	alyst: ARM		Date Prep:	11.24.2020 17:00	Basis:	Wet	Weight	
Sample Id:CS-3 (5')Matrix:SoilDate Received:11.23.2020 10:0Lab Sample Id:678749-002Date Collected: 11.20.2020 14:10Sample Depth: 5 ftAnalytical Method:TPH by SW8015 ModPrep Method:SW8015PTech:DVMDVMPrep Method:SW8015P					% Moisture:			
Sample Id:CS-3 (5')Matrix:SoilDate Received:11.23.2020 10:0Lab Sample Id:678749-002Date Collected: 11.20.2020 14:10Sample Depth: 5 ftAnalytical Method:TPH by SW8015 ModPrep Method:SW8015P	ch: DVM							
Sample Id:CS-3 (5')Matrix:SoilDate Received:11.23.2020 10:0Lab Sample Id:678749-002Date Collected: 11.20.2020 14:10Sample Depth: 5 ft	alytical Method: TPH by SW8015	Mod			Prep Method:	SW8	3015P	
Sample Id:CS-3 (5')Matrix:SoilDate Received:11.23.2020 10:0Lab Sample Id:678749-002Date Collected: 11.20.2020 14:10Sample Depth: 5 ft			Dute cone	etea. 11.20.2020 11.10	Sumple Depu			
Sample Id: CS-3 (5') Matrix: Soil Date Received:11.23.2020 10:0	Sample Id: 678749-002		Date Colle	cted: 11 20 2020 14.10	Sample Dept	h: 5 ft		
	mple 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	ate	Flag	Dil
Analyst: Seq Number:	ARM 3143307		Date Prej	p:	11.24.2020 17:00		% Moisture: Basis:	Wet	Weight	
Analytical Mo Tech:	ethod: TPH by SW8015 I DVM	Mod					Prep Method:	SW8	8015P	
Lab Sample I	d: 678749-003		Date Col	lected	: 11.20.2020 14:20		Sample Depth	:5 ft		
Sample Id:	CS-4 (5')		Matrix:		Soil		Date Received	1:11.2	3.2020 10	:05

Gasoline Range Hydrocarbons (GRO) PH	IC610 <49.9	9 49.9		mg/kg	11.25.2020 06:45	U	1
Diesel Range Organics (DRO) C1	0C28DRO <49.9	9 49.9		mg/kg	11.25.2020 06:45	U	1
Motor Oil Range Hydrocarbons (MRO) PH	ICG2835 <49.9	9 49.9		mg/kg	11.25.2020 06:45	U	1
Total TPH PH	IC635 <49.9	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 Coll	ected: 11.20.2020 14:30		Sample Depth: 2.5 f	Ìt	
Analytical Method: TPH by SW801	5 Mod				Prep Method: SW8	3015P	
Tech: DVM							
Analyst: ARM		Date Prep	b: 11.24.2020 17:00		% Moisture:	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	
1-Chlorooctane		111-85-3	96	%	70-130	11.25.2020 07:05		

- 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 Det	ection Limit	LOD Limit of Detection	
PQL	Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitation	n
DL	Method Detection Limit				
NC	Non-Calculable				
SMP	Client Sample		BLK	Method Blank	
BKS/I	LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	catory Control Sample Duplicate
MD/S	D Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NE	LAC 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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TRC Solutions, Inc

HEP Abo to Centunion

Analytical Method: Seq Number: MB Sample Id:	TPH by SV 3143307 7715934-1-	V8015 M (BLK	bd	l LCS Sam	Matrix: ple Id:	Solid 7715934-1	I-BKS		Pr LCSI	ep Metho Date Pro D Sample	od: SW3 ep: 11.2 e Id: 7713	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 Hydrocarbo	ons (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	L0 %I	CS Rec	LCS Flag	LCSD %Rec) LCSI 2 Flag) Li	mits	Units	Analysis Date	
1-Chlorooctane		93		11	15		116		70	-130	%	11.25.2020 04:48	
o-Terphenyl		159	**	18	32	**	90		70	-130	%	11.25.2020 04:48	

Analytical Method: Seq Number:	TPH by SW8015 Mod 3143307	Matrix: MB Sample Id:	Solid 7715934-1-BLK	Prep Method: Date Prep:	SW8 11.2	8015P 4.2020	
Parameter		MB Result		τ	J nits	Analysis Date	Flag
Motor Oil Range Hydrocarb	oons (MRO)	<50.0		m	ng/kg	11.25.2020 04:28	

Analytical Method:	TPH by SW	/8015 M	od						Pı	ep Meth	od: SW	8015P	
Seq Number:	3143307				Matrix:	Soil				Date Pr	ep: 11.2	4.2020	
Parent Sample Id:	678749-001			MS Sar	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 Hydrocarbo	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				N %]	IS Rec	MS Flag	MSD %Re) MSE c Flag) Li ç	mits	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				
	6	¥.		5
	4	5001, 1		3
	2	11/23/20	MANNAN	They show it
(Signature) Received by: (Signature) Date/Time	Relinquished by:	Date/Time	Received by: (Signature)	Kellilduisned by: (Signature)
ch losses are due to circumstances beyond the control These terms will be enforced unless previously negotiated.	s incurred by the client if suc ns Xenco, but not analyzed. T	onsibility for any losses or expense or each sample submitted to Eurofir	of samples and shall not assume any resp pplied to each project and a charge of \$5	or service. Euromis Xenco will be liable only for the cost of Eurofins Xenco. A minimum charge of \$85.00 will be a
ontractors. It assigns standard terms and conditions	Xenco, its affiliates and subc	er from client company to Eurofins)	samples constitutes a valid purchase orc	Notice: Signature of this document and relinquishment of
Fe Pb Mg Mn Ni K Se Ag SiO2 Na Sr Ti Sn U Zn Jn Mo Ni Se Ag SiO2 Na Sr Ti Sn U Zn Jn Jn<	3 Cd Ca Cr Co Cu Cd Cr Co Cu Pb N	8RCRA Sb As Ba Be	ed TCLP / SPLP 6010	Circle Method(s) and Metal(s) to be analyz
				Total 2007/6010 2008/6020
				1
			C12 Del 1 A	
			× 1420 % C	(.5u) = 2(2.5)
				C5-4 (S')
				(-3, (-3, (-3, (-3, (-3, (-3, (-3, (-3,
		S - X	11/22/20 1400 S'	(5-2 (5)) 5
Sample Comments		Comp Cont	Sampled Sampled Depth	Sample Identification Matrix
NaOH+Ascorbic Acid: SAPC		2][C 		
Zn Acetate+NaOH: Zn		<u>H</u>	Corrected Temperatures	Total Containers:
Na ₂ S ₂ O ₃ : NaSO ₃		р Р	Correction Factor: 0.0	Cooler Custody Seals: Yes No. NA
		aram	Thermometer ID:	Samples Received Intact: Yes Jo
H ₂ SU ₄ : H ₂ NaOH: Na		eter 15	Yes No Wet Ice: Kes	SAMPLE RECEIPT Temp Blank:
HCL: HC HNO3: HN		30pm s M	the lab, if received by 4	PO#
Cool: Cool MeOH: Me				Sampler's Name:
None: NO DI Water: H ₂ O		Code		
SIS REQUEST Preservative Codes	ANALY	Pres	Untunion Turn Around	Project Name: HET HOO YO
Deliverables: EDD ADaPT Dother:		Mr Misti		
Reporting: Level II C Level III PST/UST TRRP Level IV				
				City State ZIP. N. Y.L. J
Program: UST/PST PRP Brownfields RRC Superfund				Address: 10 Destes De
Work Order Comments				Company Name: TRC
www.xenco.com Page 1 of 1				Project Manager
	rlsbad, NM (575) 988-3199	Hobbs, NM (575) 392-7550, Car		
	Antonio, 1X (210) 509-333 Jobock, TX (806) 794-1296	EL Paso, TX (915) 585-3443, Lu	1	Xenco
	Dallas, TX (214) 902-0300	Houston, TX (281) 240-4200, [ment Testing	
	Custody	Chain of C		Allrofine

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Tempera	ture Range: 0 - 6 degC
Date/ Time Received: 11.23.2020 10.05.00 AM	Air and Metal sample	es Acceptable Range: Ambient
Work Order #: 678749	Temperature Measur	ing device used: IR8
Sample Rec	ceipt Checklist	Comments
#1 *Temperature of cooler(s)?	3	
#2 *Shipping container in good condition?	Ye	s
#3 *Samples received on ice?	Ye	s
#4 *Custody Seals intact on shipping container/ cooler?	N/	Α
#5 Custody Seals intact on sample bottles?	N/	Α
#6*Custody Seals Signed and dated?	N/	Α
#7 *Chain of Custody present?	Ye	S
#8 Any missing/extra samples?	N	D
#9 Chain of Custody signed when relinquished/ received?	Ye	S
#10 Chain of Custody agrees with sample labels/matrix?	Ye	S
#11 Container label(s) legible and intact?	Ye	S
#12 Samples in proper container/ bottle?	Ye	S
#13 Samples properly preserved?	Ye	S
#14 Sample container(s) intact?	Ye	S
#15 Sufficient sample amount for indicated test(s)?	Ye	S
#16 All samples received within hold time?	Ye	S
#17 Subcontract of sample(s)?	N/	Α
#18 Water VOC samples have zero headspace?	N/	Α

* 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: 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)1	682120-00)2	682120-00)3	682120-00	04		
Analysis Roguested	Field Id:	CS-6a (2')	CS-5a (2')	CSW-4a		CSW-8a			
Anulysis Requesieu	Depth:	2- ft		2- ft							
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	12.21.2020 (09:00	12.21.2020 0	12.21.2020 09:10		12.21.2020 09:20		09:30		
TPH by SW8015 Mod	Extracted:	12.28.2020 1	12.28.2020 16:00		12.28.2020 16:00		6:00	12.28.2020 1	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

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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,

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

Page 3 of 13

eurofins Environment Testing Xenco

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

eurofins Environment Testing Xenco

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

mg/kg

Sample Id: CS-6a (2')		Matrix:	Soil		Date Received:12.2	1.2020 16	:48
Lab Sample Id: 682120-001		Date Colle	cted: 12.21.2020 09:00		Sample Depth: 2 ft		
Analytical Method: TPH by SW801	5 Mod				Prep Method: SW8	8015P	
Tech: DVM							
Analyst: DVM		Date Prep: 12.28.2020 16:00			% Moisture:	W:-1-4	
Seq Number: 3146247					Basis. wet	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 03:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	241	49.8	mg/kg	12.29.2020 03:37		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.29.2020 03:37	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		Date Prep	: 12.28.2020 16:00		% Moisture:	XX7 • 1 .	
Seq Number: 3146247		Ĩ			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 TDH	PHC635	2163	50	ma/ka	12 20 2020 03.50		1

Total TPH	PHC635	2163	50		mg/kg	12.29.2020 03:59		1
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		Matrix:	Soil		Date Received:12.2	1.2020 16	5:48
Lab Sample Id: 682120-003		Date Colle	ected: 12.21.2020 09:20				
Analytical Method: TPH by SW80	15 Mod				Prep Method: SW	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

otal TPH	PHC635	277.7	7 49.9		mg/kg	12.29.2020 04:21		
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	**	

TRC Solutions, Inc, Midland, TX

HEP Abo + Centurion

Sample Id: CSW-8a		Matrix:	Soil		Date Received:12.2	1.2020 16	:48
Lab Sample Id: 682120-004		Date Colle	ected: 12.21.2020 09:30				
Analytical Method: TPH by SW801	5 Mod				Prep Method: SW8	3015P	
Tech: DVM							
Analyst: DVM		Date Prep:	12.28.2020 16:00		% Moisture:	Waiaht	
Seq Number: 3146247					Dasis. 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 04:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.29.2020 04:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.29.2020 04:43	U	1

Total TPH	tal TPH		<49.	9 49.9		mg/kg	12.29.2020 04:43	U	1
Surroga	te		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chloro	octane		111-85-3	118	%	70-130	12.29.2020 04:43		
o-Terphe	enyl		84-15-1	119	%	70-130	12.29.2020 04:43		

- 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 Det	ection Limit	LOD Limit of Detection	
PQL	Practical Quantitation Limit	MQL Method Qua	antitation Limit	LOQ Limit of Quantitation	n
DL	Method Detection Limit				
NC	Non-Calculable				
SMP	Client Sample		BLK	Method Blank	
BKS/I	LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labor	catory Control Sample Duplicate
MD/S	D Method Duplicate/Samp	le Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NE	LAC 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	W8015 M 6 -BLK	bd	l LCS San	Matrix: ple Id:	Solid 7718035-1	I-BKS		P1 LCS	ep Metho Date Pr D Sample	od: SW3 ep: 12.2 e Id: 7713	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 Hydrocarbo	ons (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	L0 %1	CS Rec	LCS Flag	LCSD %Rec	LCSI Flag	D Li	mits	Units	Analysis Date	
1-Chlorooctane		96		12	22		134	**	70	-130	%	12.29.2020 00:40	
o-Terphenyl		103		12	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:	SW8 12.2	8015P 8.2020	
Parameter		MB Result		τ	J nits	Analysis Date	Flag
Motor Oil Range Hydrocarb	ons (MRO)	<50.0		m	ng/kg	12.29.2020 00:18	

Analytical Method:	TPH by SW	'8015 M	od						Pr	ep Meth	od: SW	8015P	
Seq Number:	3146247]	Matrix:	Soil				Date Pr	ep: 12.2	28.2020	
Parent Sample Id:	682353-021			MS San	nple Id:	682353-02	21 S		MS	D Sample	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 Hydrocarbo	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				N %]	IS Rec	MS Flag	MSD %Re	o MSD c Flag) Li	mits	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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Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc	Acceptable Tempe	Acceptable Temperature Range: 0 - 6 degC						
Date/ Time Received: 12.21.2020 04.48.00 PM	Air and Metal samples Acceptable Range: Ambien							
Work Order #: 682120	Temperature Meas	uring	device used : IR8					
Sample Rec	eipt Checklist		Comments					
#1 *Temperature of cooler(s)?	1	0.1						
#2 *Shipping container in good condition?	Y	/es						
#3 *Samples received on ice?	Y	/es	Cooling in progress					
#4 *Custody Seals intact on shipping container/ cooler?	I	N/A						
#5 Custody Seals intact on sample bottles?	I	N/A						
#6*Custody Seals Signed and dated?	I	N/A						
#7 *Chain of Custody present?	Y	/es						
#8 Any missing/extra samples?		No						
#9 Chain of Custody signed when relinquished/ received?	Y	/es						
#10 Chain of Custody agrees with sample labels/matrix?	Y	/es						
#11 Container label(s) legible and intact?	Y	/es						
#12 Samples in proper container/ bottle?	Y	/es						
#13 Samples properly preserved?	Y	/es						
#14 Sample container(s) intact?	Y	/es						
#15 Sufficient sample amount for indicated test(s)?	Y	/es						
#16 All samples received within hold time?	Y	/es						
#17 Subcontract of sample(s)?	I	N/A						
#18 Water VOC samples have zero headspace?	I	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

		CASING	DEPTH TO	DEPTH TO	PRODUCT	GROUND WATER
LOCATION	DATE	ELEVATION	PRODUCT	WATER	THICKNESS	ELEVATION
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
j j	02/09/95		13.75	14.32	0,57	3433.83
	06/16/95		15.20	15.84	0.64	3432.37
;	10/02/95		10.69	11.43	0.74	3436.87
	11/26/95		9.69	10.41	0.72	3437.87
1	04/16/96		9,58	9.63	0.05	3438.08
	07/06/96		11.70	11.80	0.10	3435,96
	09/30/96		8.71	8.75	0.04	3438.95
	01/10/97		10.33	10.40	0.07	3437.33
	04/02/97		11.36	11.42	0.06	3436,30
	07/10/97		13.02	13.10	0,08	3434,64
	10/17/97		13.22	13.24	0.02	3434,45
	01/18/98		10.68	10.78	0.10	3436.98
	04/18/98	}	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
	13/05/09	1	15.08	15.15	0.07	3432,58
	12/03/98		16.40	16.00	0,10	3431.26
	06/02/00		10.00	10.08	0.08	3431,00
	00/03/99		14.50	14.58	0.03	2425.32
1	01/08/00	1	1.82	1.8/	0.05	3439.84
	01/08/00		0.5U	5.0U 7.05	0.10	2429,10
	07/08/00		0.98	7.05	0.07	3440.68
	07/24/01		6,03	5.73	0.10	3441.03
	03/12/02	1	5,45 Not cruged	5.50	0.07	5442.25
	07/10/03		Not gauged			ļ
	08/17/05		5 20	5.28	0.08	3442 46
	10/10/06		Not gauged	5.20	0.00	5412.10
1	08/12/08		Not gauged			
ļ	00/12/08)	Not gaugod			
MV7-3A	10/10/01	ND	NP	7 34	NA	סזא
(MW-3RS)	03/12/02		NP	5.24	NA	ND
(MW-3C)	07/18/03	}	NP	6.34	NA	ND
(03/29/04		NP	4.50	NA	ND
	08/17/05		NP	3 70	NA	ND
	10/10/06		NP	3 18	NA	
	08/12/09		ND	3 3 2	NA	ND
	00/12/08			5.52	154	ND I
MW-3B	10/10/01	ND	NP	7 47	NA	
(MW-3B)	03/12/02	ND ND	NTP	5.62	NA	ND
(07/18/03	}	NP	6.81	NA	ND
	03/29/04		Not gauged	0.01		
	08/17/05		NP	4 82	NA	ND
	10/10/06		NP	3.86	NA	ND
	08/12/08		NP	3,90	NA	ND
]				-
MW-4	11/17/94	ND	NP	28.28	NA	ND
	02/09/95	ł	NP	28.51	NA	ND
	06/16/95	(NP	29.58	NA	ND
	10/02/95	ļ	NP	24.42	NA	ND
	11/26/95	1	NP	22.61	NA	ND
	04/16/96		NP	20.63	NA	ND
	07/06/96	l	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
1	04/18/98	1	NP	25.02	NA	ND
	12/05/98	ļ	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	1		18.85	NA	DN
	01/08/00		NP	19.30	NA	ND
	06/08/00		NP	18.46	NA	ND
	07/24/01	1	NP	16.93	NA	ND
ſ	03/12/02	[NP	(14.89	NA	ND
	06/19/03	1	Plugged and A	bandoned I		1
	<u> </u>					i

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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	11/17/94	3424.57	13.69	14.95	1,26	3410.69
	02/09/95		14.46	15.02	0.56	3410.03
	06/16/95	ļ	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	1	8,04	8.07	0.03	3416.53
1 1	01/10/97	ĺ	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
1	10/17/97		NP	10.20	NA	3414 37
	01/18/98		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	13.65	NA	3410.92
	08/19/98	l.	NP	14 42	NA	3410.15
	12/05/98		NP	15.30	NA	3409.27
1	04/01/99		NP	15 73	NA	3408 R4
	06/03/99		NP	11.88	NA	3412.60
	09/20/00		NP	7 20	NA	3417 27
	01/08/00		NP	8 5 8	NA	3415.00
	06/08/00		NP	9.71	NA.	3414.96
	07/24/01		NP	9.53	NA	3415.04
	07/24/01		NID	7.29	NA	3413.04
	03/21/02		NP	9.50	NA	3417.29
	07/17/03		ND	6.80	NA	3413.98
	08/17/05		NP	6.82	NA	2417.77
	08/17/05		Plugged and Al	outoned	INA	3417.75
			Flugged and A	Jandoneu		
MWO	11/17/04	2456 12	23.07	23.10	0.03	3433.05
141 44 - 5	02/00/05	5450.12	Ebaon	23.10	Shaar	2422.73
	02/09/95		Sheen	23.41	Sheen	3432.71
	10/02/05		Sheen	24.05	Sheen	3431,47
	11/26/05		Sheen	19.52	Sheen	3435.39
	04/16/06		17.52	17.52	0.01	3430.00
	04/16/96		17.55	21.24	0.01	3436,39
	07/06/96	!	21.20	21.23	0.03	3434.92
	03/30/90		10,00	10.02	0.02	2429.67
	01/10/97		17.55	18.02	0.02	2427.21
	04/02/97		10.91	18.92	0.01	3437.21
	07/10/97		20.39	20.41	0.02	3435,73
	01/18/09		19 20	19.40	0.02	2425.599
	01/18/98		10.39	10.40	0.01	2427.22
	04/18/98	1	18.80	10.01	0,01	3437,32
	05/29/98		NP	10.00	NA	3436.62
	00/30/98		NP 21.00	19.82	NA	3436.30
	07/23/98		21.00	21.01	0.01	3435.12
	12/05/08		NP	21.75	NA	3434.37
	12/05/98	J	NP	25.18	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	12.30	NA NA	3443.56
	01/08/00		NP	11.04	NA NA	3443.48
	00/08/00		NP ND	10.55	NA NA	3444,47
	07/24/01	í	NP 7 90	. 7 01	NA	3445,47
	03/12/02		7.80	/.81	0.01	3448.32
	07/18/03	1	Sneen	9.71	Sneen	3446.41
	03/29/04		NP	0.90	NA NA	3449.22
	10/10/07		NP ND	20.2	NA NA	3446.49
	10/10/06		NP ND	0.12	NA NA	3450.00
	08/12/08		MP	0.02	NA	3450.10
		1			1	1



Appendix F – Disposal Tickets and Transporter Manifests

Received by O	C D: 2/23	/2021 11:07	7:42 AM								Page 144 of 162
	Custo Custo Order	Customer: HOLLY ENERGY Customer #: CRI3200 Ordered by: MELANIE NOLAN				Ticket #: Bid #: Date: Generator:	700-1180397 Walk-in Bid 12/7/2020				
ENVIRONMENTAL SOLUTIONS Permian Basin		PO #: Manife Manife Haule Driver	PO #: PO #: Manifest #: NA Manif. Date: 12/7/2020 Hauler: M Mata Trucking LLC Driver JESUS Truck # 101			Generator Well Ser. #: Well Name: Well #: Field:		999908 ABO CENTURION STATION			
			Card a Job R	# 10 # ef#	1			Rig: County	NON-DRI EDDY (NI	LLING ⁄/)	
Facility: CRI											
Product / Serv	vice					Q	uantity U	nits			- 111
Contaminated	Soil (R	CRA Exem	ipt)			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 Cen I hereby certify 1988 regulatory X RCRA Exer _ RCRA Non-	rtificatic that accord determin npt: Oil F Exempt:	on Stateme rding to the ation, the ab field wastes Oil field wa	nt of Wa Resource ove descr generated aste which	Aste Statu Conservati ribed waste I from oil an i is non-haz	S on and Recove is: nd gas explora ardous that do	ery Act (R tion and p es not exc	CRA) and the minimum of the minimum	the US Envir operations and nimum standa	onmental Pro l are not mix rds for waste	otection Ag ed with nor hazardous	ency's July n-exempt waste by

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	i est									
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
---	------------------	------------	---	--	---	-----	------------	--	---	--	------------
RGS ENVIRONMENT SOLUTION Permian Basir		2	Custor Custor Ordere AFE # PO #: Manife Manif. Haule Driver Truck Card ; Job R	mer: mer #: (ed by: : est #: Date: ' r: # # # #	HOLLY ENERGY CRI3200 MELANIE NOLAN NA 12/7/2020 M Mata Trucking LLC MANUEL 150			icket #: id #: ate: Generator: Generator #: Vell Ser. #: Vell Name: Vell Name: Vell #: Tield: Tield #: Rig: County	700-11803 Walk-in Bi 12/7/2020 Holly Ener 999908 ABO CEN NON-DRI EDDY (N	98 d gy TURION S LLING M)	STATION
Facility: CRI											
Product / Serv	ice				-	Q	uantity Un	its			
	Soil (R	CRA Exer	npt)				20.00 y	ards			
Contaminated				1000	0/ Colida	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Contaminated	Cell	рН	CI	Conc	. %3011US	100					

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
PR3600 INVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	HOLLY ENERGY CRI3200 MELANIE NOLA NA 12/7/2020 M Mata Trucking JONAHTAN 01	Y N g LLC	Ti Bi G G W W F F R C	cket #: d #: enerator: enerator #: /ell Ser. #: /ell Name: /ell #: ield: ield #: ig: :ounty	Vol-1180399 Walk-in Bid 12/7/2020 Holly Energy 999908 ABO CENTURION STATION NON-DRILLING EDDY (NM)		
Facility: CRI								
Product / Service			Q	antity Uni	its			
Contaminated Soil (RCRA Exem	ot)			20.00 ya	ards			
Cell pH	CI Cor	nd. %Solids	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	nt of Waste Si tesource Conserved described w generated from of ste which is non egulations, 40 C on is attached to Hazardous Wast	tatus vation and Recove aste is: bil and gas explorat -hazardous that do FR 261.21-261.24 c b demonstrate the a te Analysis Pr R360 F	ry Act (R tion and p es not exc or listed ha bove-dest ocess Kno Represe	CRA) and the roduction op eed the min azardous was cribed waste owledge	ne US Envir perations an imum standa ste as define is non-haza Other (Pro nature	d are not mix ards for waste ard in 40 CKR. ardous. (Chec ovide descrip	ed with none hazardous, part 261, s k the approtion above)	ency's July n-exempt waste by ubpart D, as opriate items):
Customer Approval			130.24			V	70110 24	
	TH	IS IS NOT	AN II	VVOIC	E			
Approved By:			D	ate:				

12/7/2020 10:49:13AM

Received by O	C D: 2/2 3	<i>3/2021 11:0</i>	07:42 AM								Page 147 of 16
	RE	6	Custor Custor Ordere AFF #	ner: HC ner#:CR ed by:ME	OLLY ENERG 13200 ELANIE NOL	gy An	T B C	icket #: id #: Date: Generator:	700-11804 Walk-in Bi 12/7/2020 Holly Ener	100 id -gy	
ne	10		PO #:				C	Generator #	999908		
ENVIRONMENT/ SOLUTION	AL VS		Manife Manif.	Date: 12	17/2020		V	Vell Name:	ABO CEN	TURION S	STATION
Permian Basin			Haule	r: M	Mata Truckir	ng LLC	V F	Vell #: Field:			
			Truck Card # Job R	# 12 # ef #			F F (Field #: Rig: County	NON-DRI EDDY (NI	LLING M)	
Facility: CRI								-			-
Product / Serv	vice					Q	uantity Ur	nits			
Contaminated	Soil (R	CRA Exe	mpt)				20.00 y	ards			146.4.3.5
	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	IS						
I hereby certify 1988 regulatory X RCRA Exer RCRA Non characteristics e	that acco determin mpt: Oil -Exempt establishe	ording to the nation, the a Field waste :: Oil field w ed in RCRA	e Resource above descr s generated vaste which regulation	Conservation ribed wasted form oil a n is non-haz ns, 40 CFR	ion and Recoversion is: and gas explored zardous that de 261.21-261.24	ery Act (R ation and poes not ex or listed h	CRA) and t production of ceed the min azardous wa	he US Envi operations ar nimum stand aste as defin	ronmental Pr and are not min ards for wast ed in 40 CFR	rotection Ag xed with no te hazardou t, part 261, ok the appr	gency's July on-exempt wasto s by subpart D, as opriate items);
amended. The MSDS Info	following ormation	g document RCRA	ation is atta A Hazardou	ached to de us Waste A	monstrate the	above-des rocess Kn	owledge	_ Other (Pr	ovide descrij	ption above	e)

Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

Approved By:

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	:42 AM						Page 148 of
R3600 ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	HOLLY ENERGY CRI3200 MELANIE NOLAN NA 12/7/2020 M Mata Trucking LL SERGIO 12	C	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	Vol-1180550 Walk-in Bid 12/7/2020 Holly Energy 999908 ABO CENTURION STATION NON-DRILLING EDDY (NM)		
Facility: CRI							
Product / Service	- M. C		Quantity L	Jnits		2150	and the set
Contaminated Soil (RCRA Exemp	t)		20.00	yards			
Cell pH	CI Con	id. %Solids TE	S PCI/GN	MR/HR	H2S	% Oil	Weight
ab Analysis: 50/51 0.00	0.00 0.0	0 0					
Senerator Certification Statement hereby certify that according to the Re 1988 regulatory determination, the above X RCRA Exempt: Oil Field wastes ge	t of Waste St esource Conserve ve described water enerated from o	atus vation and Recovery Ad aste is: il and gas exploration a	et (RCRA) and	the US Enviro	onmental Pro	otection Ag	ency's July n-exempt wast
KCRA Non-Exempt: Off field wast characteristics established in RCRA reg amended. The following documentatio MSDS Information RCRA H Driver/ Agent Signature	gulations, 40 CI n is attached to azardous Wast	R360 Repr	t exceed the m ed hazardous v -described wa Knowledge esentative S	inimum standa waste as defined ste is non-haza Other (Pro ignature	rds for waste d in 40 CFR, dous. (Chec vide descrip	e hazardous , part 261, s k the appro tion above)	by ubpart D, as priate items):
RCRA Non-Exempt: Off field wast characteristics established in RCRA reg umended. The following documentatio MSDS Information RCRA H Driver/ Agent Signature Customer Approval	gulations, 40 CI n is attached to azardous Wast	R360 Repr	t exceed the m ed hazardous v -described wa Knowledge esentative S	inimum standa waste as defined ste is non-hazat Other (Pro ignature	rds for waste d in 40 CFR, dous. (Chec v de descrip	e hazardous , part 261, s k the appro tion above)	by ubpart D, as priate items):
KCRA Non-Exempt: Off field wast characteristics established in RCRA reg amended. The following documentatio MSDS Information RCRA H Driver/ Agent Signature Customer Approval	gulations, 40 CI n is attached to azardous Wast	R360 Repr	t exceed the med hazardous v -described wa Knowledge esentative S	inimum standa waste as defined ste is non-hazat Other (Pro ignature CE!	rds for waste d in 40 CFR, dous. (Chec v de descrip	e hazardous , part 261, s k the appro ation above)	by ubpart D, as priate items):

Received by OCD: 2/23/2021 11:07	7:42 AM							Page 149 of 1	
RB660 NVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	HOLLY ENERG CRI3200 MELANIE NOLA NA 12/7/2020 RDR EAGLE TH RICARDO 08	Y AN RUCKING	i	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well A: Field: Field #: Rig: County	Walk-in Bid 12/7/2020 Holly Energy 999908 ABO CENTURION STATION NON-DRILLING EDDY (NM)			
acility: CRI									
Product / Service		1.0	Qu	antity U	antity Units				
Contaminated Soil (RCRA Exemp	ot)			20.00					
Cell pH	Cl Cor	nd. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight	
Senerator Certification Statemer hereby certify that according to the R 988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field was characteristics established in RCRA re- mended. The following documentation MSDS Information RCRA H Driver/ Agent Signature	nt of Waste Si tesource Conser- ove described w generated from of ste which is non egulations, 40 C on is attached to Hazardous Wast	tatus vation and Recover aste is: bil and gas explora -hazardous that do FR 261.21-261.24 co o demonstrate the a the Analysis Pr R360 F	ery Act (RC tion and pi es not exco or listed ha above-desc rocess Kno Represen	CRA) and roduction eed the mi zardous w ribed was wledge ntative Si	the US Envir operations and inimum standa vaste as define te is non-haza Other (Pro ignature	onmental Pro d are not mix ards for waste d in 40 CFR dous. (Chec wide descrip	otection Ag ed with not e hazardous , part 261, s ek the appro- ption above)	ency's July n-exempt waste by ubpart D, as opriate items):	
Customer Approval							2.		
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Approved By:			D	ate:			-		

Received by OCD: 2/23/2021 11:0	7:42 AM			Page 150 of L					
Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	HOLLY ENERG CRI3200 MELANIE NOLA NA 12/7/2020 RDR EAGLE T RICARDO 08	SY AN RUCKING	Tic Bid Da Ge Ge We Fie Fie Riç Co	ket #: I #: merator: enerator #: ell Ser. #: ell Name: ell #: eld #: g: punty	 Y00-1180405 Walk-in Bid 12/7/2020 r: Holly Energy r#: #: 999908 ie: ABO CENTURION STATION NON-DRILLING EDDY (NM) 			
Facility: CRI				and the second states					
Product / Service		and a state and	Qu	antity Units	S		Alex 1 -		
Contaminated Soil (RCRA Exem	pt)			20.00 yar	ds			a family and a star	
Cell pH	CI Cor	nd. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight	
Generator Certification Stateme I hereby certify that according to the I 1988 regulatory determination, the ab X RCRA Exempt: Oil Field wastes RCRA Non-Exempt: Oil field was characteristics established in RCRA r amended. The following documentat MSDS Information RCRA Driver/ Agent Signature	erator Certification Statement of Waste Status eby certify that according to the Resource Conservation regulatory determination, the above described waste RCRA Exempt: Oil Field wastes generated from oil an RCRA Non-Exempt: Oil field waste which is non-haza neteristics established in RCRA regulations, 40 CFR 2 ided. The following documentation is attached to den MSDS Information RCRA Hazardous Waste Am rer/ Agent Signature			CRA) and the oduction ope eed the minin zardous wast ribed waste i wledge tative Sign	US Envir erations and num standa te as define is non-haza Other (Pro	d are not mix and are not mix ords for waste d in 40 CFR reous. (Chec by ide descrip	otection Ag ked with not e hazardous , part 261, s ck the appro- otion above	ency's July n-exempt waste s by subpart D, as opriate items):	
Customer Approval				WOIOF	-				
	TH	15 IS NOT	AN IN	IVOICE	-1				
Approved By:			Da	ate:			-		

Customer: HOLLY ENERGY Customer #: Ticket #: 700-1100548 Walk-in Bid Ordered by: MELANIE NOLAN Bid #: Walk-in Bid Date: 12/17/2020 remian Basin Walk-in Bid Ordered by: Mainf. Date: 12/17/2020 Generator: Holly Energy Generator: Holl	Received by OCD: 2/23/2021 1	1:07:42 AM								'age 151 of 1
Hauler: M Mata Trucking LLC Well #: Driver MANUEL Field : Truck # 150 Field #: Card # County EDDY (NM) Actinity: CRI 20.00 yards 20.00 yards Sontaminated Soli (RCRA Exempt) 20.00 yards 20.00 yards .ab Analysis: 5051 0.00 0.00 0 Senerator Certification Statement of Waste Status Image: State Status Image: State Status hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 98 regulatory determination, the above described waste is: R CRA Exempt Oil Field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by immediated. The following documentation is attached to demoastrate the above-described waste is non-hazardous. (Check the appropriate items): _ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above) _ Wisto Kapproved By:	FBS	Custom Custom Ordered AFE #: PO #: Manifes Manif. [er: HOL er#: CRI3 d by: MEL st#: NA Date: 12/7/	LY ENERG 3200 ANIE NOLA 72020	Y AN	Ti B D G G V V V	icket #: id #: ate: enerator: enerator #: Vell Ser. #: Vell Name:	700-11805 Walk-in Bio 12/7/2020 Holly Energ 999908 ABO CEN	48 1 99 FURION S	TATION
acility: CRI Product / Service Contaminated Soil (RCRA Exempt) Cell pH CL Cl Cond %Solids TDS PCI/GM MR/HR H2S % Oil Weight ab Analysis: 50/51 0.000 0.00 0 Senerator Certification Statement of Waste Status bereby 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 waste with is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 26121-261.24 or listed hazardous waste as defined in 40 CFR, purt 261, subpart D, as mended. The following documentation is attached to demosstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above) Priver/ Agent Signature R360 Representative Signature R360 Representative Signature Date:	ermian Basin	Hauler: Driver Truck # Card #	M M MAN ± 150	ata Truckin IUEL	g LLC	V F F C	Vell #: ield: ield #: lig: County	NON-DRIL EDDY (NN	LING	
Product / Service Quantity Units 20.00 yards 20.00 yards				1			,			
Product / Service Quantity Units Contaminated Soil (RCRA Exempt) 20.00 yards	acility: CRI			1.1	*					
Contaminated Soil (RCRA Exempt) 20.00 yards	roduct / Service	4	·		Qu	antity Uni	its		1. A. A.	-1.1
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 senerator Certification Statement of Waste Status heroby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 98 regulatory determination, the above described waste is: X RCRA 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.	ontaminated Soil (RCRA Ex	empt)				20.00 ya	ards			
Lab 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 R CRA Non-Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast R CRA Non-Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast R CRA Non-Exempt: Oil Field waste set which is non-hazardous that does not exceed the minimum standards for waste hazardous by haracteristics established in RCRA regulations, 40 CFR 26121-26124 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as mmended, 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 Date: Approved By: Date:	Cell pH	* Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
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 98 regulatory determination, the above described waste is: 2 RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast _ ACRA Non-Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast _ ACRA Non-Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wast _ ACRA Non-Exempt: Oil Field waste studies in on-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) Driver/ Agent Signature _ R360 Representative Signature _ Customer Approval	ab Analysis: 50/51 0.00	0.00	0.00	0						
Customer Approval THIS IS NOT AN INVOICE! Approved By: Date:	Senerator Certification State hereby certify that according to t 988 regulatory determination, the X RCRA Exempt: Oil Field was RCRA Non-Exempt: Oil field haracteristics established in RCR wanded. The following docume	the Resource C e above descrit tes generated f waste which i A regulations, atation is attac	Conservation bed waste is from oil and is non-hazar 40 CFR 26 hed to demo	and Recove gas explora dous that do 1.21-261.24 constrate the a	tion and pr es not exce or listed ha	oduction op eed the mini zardous was ribed waste	perations and imum standa ste as define is non-haza	l are not mixe rds for waste d in 40 CFR, dous, (Checl	ed with non hazardous part 261, su the approp	-exempt wast by ibpart D, as priate items):
Approved By: Date:	Senerator Certification State hereby certify that according to 1 1988 regulatory determination, the X RCRA Exempt: Oil Field was RCRA Non-Exempt: Oil field characteristics established in RCR amended. The following docume MSDS Information RCI Driver/ Agent Signature	the Resource C e above descrit tes generated f I waste which i A regulations, ntation is attac RA Hazardous	Conservation bed waste is from oil and is non-hazar 40 CFR 26 hed to demo Waste Ana	and Recove gas explora dous that do 1.21-261.24 c pastrate the a lysis Pr R360 F	tion and pr es not exce or listed ha above-desc ocess Kno Represen	roduction op eed the mini zardous was ribed waste wledge	perations and imum standa ste as define is non-haza Other (Pro nature	l are not mixe rds for waste d in 40 CFR, dous. (Check vide descript	ed with non hazardous part 261, su c the appro ion above)	-exempt wast by ibpart D, as oriate items):
Approved By: Date:	Senerator Certification State hereby certify that according to 1 1988 regulatory determination, the X RCRA Exempt: Oil Field was RCRA Non-Exempt: Oil field characteristics established in RCR amended. The following docume MSDS Information RCI Driver/ Agent Signature	the Resource C e above descril ites generated f l waste which i tA regulations, ntation is attac RA Hazardous	Conservation bed waste is from oil and is non-hazar , 40 CFR 26 hed to demo Waste Ana	and Recover gas explora dous that do 1.21-261.24 c onstrate the a lysis _ Pr R360 F	tion and pr es not exce or listed ha above-desc ocess Kno Represen	roduction op eed the mini zardous was ribed waste wledge tative Sig	perations and imum standa ste as define is non-haza Other (Pro nature	are not mixe rds for waste t in 40 CFR, dous. (Check vide descript	ed with non hazardous part 261, su c the approp ion above)	-exempt wast by ibpart D, as oriate items):
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	1.07.74 /101								Page 152 of 1
RB360	Custome Custome Ordered AFE #: PO #: Manifes Manif. E Hauler: Driver Truck # Card # Job Ref	er: HC er #: CR by: ME t #: NA Date: 12, M JO 01	OLLY ENERGY 13200 ELANIE NOLAN 17/2020 Mata Trucking L NATHAN	LLC	Ti Bi G G W M F F R C	cket #: d #: enerator: enerator #: /ell Ser. #: /ell Name: /ell #: ield : ield #: ig: :ounty	700-11805 Walk-in Bid 12/7/2020 Holly Energ 999908 ABO CENT NON-DRIL EDDY (NM	49 dy TURION S LLING 4)	STATION
Facility: CRI									
Product / Service				Qu	antity Uni	its			
Contaminated Soil (RCRA E	xempt)				12.00 ya	ards			
Cell pH	CI	Cond.	%Solids	TDS	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	ement of Was the Resource C he above describ astes generated f Id waste which i RA regulations, entation is attac CRA Hazardous	te Statu conservati bed waste from oil a s non-haz 40 CFR 2 hed to den Waste A	s on and Recovery is: nd gas exploration cardous that does 261.21-261.24 or l monstrate the abo nalysis Proce	Act (RC n and pr not exce listed ha ove-desc ess Kno	CRA) and the roduction op eed the mini- zardous wa pribed waste weledge	e US Envir perations and imum standa ste as define is non-haza _ Other (Pro	onmental Pro d are not mix ards for waste d in 40 CFR, rdous. (Chec ovide descrip	ed with no e hazardou part 261, s k the appro- tion above	gency's July n-exempt wast s by subpart D, as opriate items):)
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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 Information RC Driver/ Agent Signature Customer Approval	ement of Was the Resource C he above describ astes generated f Id waste which i RA regulations, entation is attac CRA Hazardous	te Statu conservati bed waste rom oil a s non-haz 40 CFR 2 hed to der Waste At	s on and Recovery is: nd gas exploration cardous that does 261.21-261.24 or 1 monstrate the abo nalysis Proce R360 Re	Act (RC n and pr not exce listed ha ove-desc ess Kno presen	CRA) and the roduction op eed the mini- izardous was bribed waste owledge	e US Envir perations and imum standa ste as define is non-haza Other (Pro nature	onmental Pro d are not mix ards for waste d in 40 CFR, rdous. (Chec ovide descrip	ed with no e hazardous part 261, s k the appro- tion above	gency's July n-exempt wast s by subpart D, as opriate items):)
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 Information RO Driver/ Agent Signature Customer Approval	ement of Was the Resource C he above describ astes generated f Id waste which i RA regulations, entation is attac CRA Hazardous	te Statu conservati bed waste rom oil a s non-haz 40 CFR 2 hed to der Waste At	n and Recovery is: and gas exploration cardous that does 261.21-261.24 or 1 monstrate the abo nalysis Proce R360 Re IS NOT A	Act (RC n and pr not exce listed ha ove-desc ess Kno presen	CRA) and the roduction opeed the mini- czardous wa waribed waster wiedge	e US Envir perations and imum standa ste as define is non-haza Other (Pro nature	onmental Pro d are not mix ards for waste d in 40 CFR, rdous. (Chec ovide descrip	ed with no e hazardous part 261, s k the appro- tion above	gency's July n-exempt wast s by subpart D, as opriate items):)

Received by O)CD: 2/23	3/2021 11:0	07:42 AM Custor	mer: HC		θY	ті	icket #:	700-1180	557	Page 153 of 1
	and and	C B	Custor	mer #: CF	RI3200		Bi	id #:	Walk-in Bi	id	
	DIE	2 AV	Ordere	ed by: MI	ELANIE NOL	AN	D	ate:	12/7/2020		
19 Bru			AFE#	:			G	enerator:	Holly Ener	ſġy	
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3010110	NO William		Manit.	Date: 12	Mata Truckir	DALLC			ADO CEN	TURION	STATION
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Contaminated	d Soil (R	CRA Exen	npt)				20.00 ya	irds			
	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	rtificatio	n Stateme	ent of Wa	ste Statu	S						
I hereby certify	that accou	ding to the	Resource	Conservati	on and Recov	ery Act (F	RCRA) and th	e US Envir	onmental Pro	otection Ag	gency's July
1988 regulatory	determin	ation, the al	bove descr	ibed waste	is:						
X RCRA Exer	mpt: Oil F	field wastes	generated	from oil a	nd gas explora	ation and	production op	perations and	l are not mix	ed with no	n-exempt wast
_ RCRA Non	-Exempt:	Oil field w	aste which	is non-haz	ardous that do	oes not ex	ceed the mini	mum standa	rds for waste	e hazardou	s by
characteristics e	established	d in RCRA	regulation	s, 40 CFR 2	261.21-261.24	or listed h	azardous was	ste as define	d in 40 CFR	, part 261, s	subpart D, as
amended. The	following	documenta	tion is atta	ched to de	monstrate the	above-des	scribed waste	is non-hazar	rdous. (Chec	k the appro	opriate items):
_ MSDS Info	ormation	_ RCRA	Hazardou	is Waste A	nalysis _ P	rocess Kn	iowledge _	Other (Pro	vide descrip	tion above)
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Duberry America	Olanat					THE R P P P P P P P P P P P P P P P P P P					
Driver/ Agent	Signatu	ire			K300	Represe	ntative sign	lature			
Driver/ Agent	Signatu	ire			K300	Represe	ntative Sigi	lature			

THIS IS NOT AN INVOICE!

Approved By:

Customer Approval

Received by OC	C D: 2/2 3	2/2021 11:0	7:42 AM Custo	mer: H		ΞY		Ticket #:	700-1180	406	Page 154 of 1
	-		Custo	mer#: C	RI3200			Bid #:	Walk-in B	id	
10/2	YE		Order	ed by: N	IELANIE NOL	.AN		Date:	12///2020) rav	
$\square \mathbf{C}$				1				Generator #	Holly Elle	igy	
NVIRONMENTA	NL T	1	Manife	est#: N	A			Well Ser. #:	999908		
SOLUTION	is 🔛		Manif.	Date: 1	2/7/2020			Well Name:	ABO CEN	TURION S	STATION
Pormian Basin			Haule	r: F	RDR EAGLE T	RUCKIN	G	Well #:			
eriman Dasin			Driver	F	RICARDO			Field:			
			Truck	# 1 "	295			Field #:			
			Job R	≠ ef#				County	EDDY (N	M)	
Facility: CRI											
Product / Servi	ice					Q	uantity U	nits	-		
Contaminated	Soil (R	CRA Exer	npt)				20.00	yards			
	Cell	pН	CI	Cond.	%Solids	TDS	PCI/GN	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:

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 OC	CD: 2/23	/2021 11:0	7:42 AM								Page 155 of 16.
RS	26	6	Custor Custor Ordere AFE #	ner: H ner#: C ed by: M	IOLLY ENERG CRI3200 /IELANIE NOL/	6Y AN	1	Ticket #: Bid #: Date: Generator:	700-11805 Walk-in Bi 12/7/2020 Holly Ener	559 id rgy	
ENVIRONMENTA SOLUTION	AL VS	7	PO #: Manife Manif.	est #: N Date: 1	NA 12/7/2020		G	Generator # Well Ser. #: Well Name: Well #:	999908 ABO CEN		STATION
Permian Basin			Hauler Driver Truck Card Job R	". F F # 1 ¢ ef#	RICARDO 1295	KUCKIN	6	Field: Field #: Rig: County	NON-DRI EDDY (NI	LLING M)	
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	rtificatio	on Statem	ent of Wa	ste Sta	tus			2.1.0			

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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	a parameter version Constra Con
MataTrucking,	
PO BOX 1263,	
Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&P NON-EXEMPT SOIL	
VOLUME:approx. 250 cubicyards	ZOYds
FACILITY CONTACT:	Water Mark
	Signature:
Melanie Nolan	Date:
1602 W. Main St., Artesia, NM 88210	<u> </u>
NAME OF TRANSPORTER: (DRIVER)	
	Name: Treas Prosen
M MataTrucking,	Walle 400 -
PUBUK 1263,	Signature Inn Conver_
TUDUS, 14141, 00241	10-00
TK#101	Date: <u>17-7-7080</u>
DISPOSAL SITE:	Sm
R360 Hobbs Facility	Signature:
MM66 Carisbad Hwy	1917120
Hobbs, NM 88241	Date: 161-1
A STATE AND A STATE AN	
	Direct Bill: Holly Energy Partners

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TRANSF	ORTER'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. 2000-
Hobbs, NM, 88241	2 LOAD
DESCRIPTION OF WASTE:	
E&P NON- EXEMPT SOIL	
	nnuads
VOLUME: _ approx. 250 cubicyards	20 404 0 3
FACILITY CONTACT:,	
to the Market	Signature:
Helanie Nolan Holly Energy Partners	Date:
1602 W. Main St., Artesia, NM 88210	
Construction Directory of the second s	
NAME OF TRANSPORTER: (DRIVER)	
	Name MAISIE MITA
A A A A True along the second se	
M MataTrucking, / RUCK #	hit Pr
M MataTrucking, / Z J 2 4 PO BOX 1263, Hobbs, NM, 88241	Signature: Misso
M MataTrucking, / 2024 # PO BOX 1263, Hobbs, NM, 88241 20 4D	Signature: Minth- S. Date: 12 7-20
M MataTrucking, / 2024 # PO BOX 1263, Hobbs, NM, 88241 20 4D	S
M MataTrucking, / 2024 # PO BOX 1263, Hobbs, NM, 88241 20 4D	Signature: <u>Minsk</u> S. Date: <u>12:7-20</u> Willow
M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241 20 YD <u>DISPOSAL SITE:</u> R360 Hobbs Facility	S. Date: 12 7-20
M MataTrucking, PO BOX 1263, Hobbs, NM, 88241 20 YD <u>DISPOSAL SITE:</u> R360 Hobbs Facility MM66 Carlsbad Hwy	Signature: Mink S. Date: 12:7-20 Signature: MUInul Je Date: 12/2/20
M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241 20 YD <u>DISPOSAL SITE:</u> R360 Hobbs Facility MM66 Carlsbad Hwy Hobbs, NM 88241	Signature: <u>Minsk</u> <u>S</u> Date: <u>12:7-20</u> Signature: <u>Mulínu</u>
M MataTrucking, PO BOX 1263, Hobbs, NM, 88241 20 4D <u>DISPOSAL SITE:</u> R360 Hobbs Facility MM66 Carlsbad Hwy Hobbs, NM 88241	Signature: <u>Mbs</u> <u>S</u> <u>Date: 12:7-20</u> <u>Signature: Mulínur</u> <u>J</u> <u>Date: 12/2120</u> <u>Direct Bill: Holly Energy Partners</u>

TRANSPORTER'S MANIFEST		
SHIPPERS FACILITY NAME AND ADDRESS:	LOCATION OF MATERIAL	
Holly Energy Partners	Site: Abo Centurion Station	
1602 W. Main Street Artesia NM88210	Location: 32.76337442, -104.26801562	
	NMPA:N/A	
TRANSPORTERS NAME AND ADDRESS: M		
Mata Trucking,		
PU BUX 1263, Hobbs NM 88241		
DESCRIPTION OF WASTE:	, load	
E&P NON- EXEMPT SOIL	land C	
VOLUME: ADDROX 250 subjected	OM 1 17 Mds	
	LUYOS 10 100	
FACILITY CONTACT:		
	Signature: Malance Vale	
Melanie Nolan Holly Energy Partners	10-4-7020	
1602 W. Main St., Artesia, NM88210		
NAME OF TRANSPORTER: (DRIVER)	ſ,	
M Mata Trucking	Nama: fonch tan	
PO BOX 1263, Hall		
Hobbs, NM, 88241 ++	Signature: Janah ten_	
	Date: 12/ 7/20	
	$\bigcap_{i \in I} (i \in I)$	
DISPOSAL SITE:	the M	
MM66 Carlsbad Hwy	Signature:	
Hobbs, NM 88241	Date: 12 1 20-	
	Direct Bill: Holly Energy Partners	

INANOI ONIE	R S WANTEST
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:	'oud
E&P NON-EXEMPT SOIL 2.	Load
VOLUME: _ approx. 250 cubicyards 20	ycrols
FACILITY CONTACT:	Walk in the state
na Luis Nalas	Signature:
Holly Energy Partners 1602 W. Main St., Artesia, NM 88210	Date:
NAME OF TRANSPORTER: (DRIVER)	Sergio
	$O_{e} =$
M MataTrucking,	Name:
PO BOX 1263, Hobbs NM 88241	Signature:
TK+ 12	Date: PATO
.DISPOSAL SITE:	(With
R360 Hobbs Facility	Signature:
MIM66 Carisbad Hwy Hobbs, NM 88241	Date: 127/20 -
	Direct Bill: Holly Energy Partners Care Of: Melanie Nolan

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TRANSPORTE	R'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	
MataTrucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	
E&PNON-EXEMPT SOIL VOLUME:approx. 250 cubicyards 2nd 2	20 Yds
FACILITY CONTACT:,	Signature:
Melanie Nolan Holly Energy Partners 1602 W. Main St., Artesia, NM 88210	Date:
NAME OF TRANSPORTER: (DRIVER)	De 11 a
M Mata Trucking, RDR Trucking	Name: Micard Chovy -
M MataTrucking, RDR Trucking PO BOX 1263, Hobbs, NM, 88241 #08	Name: <u>Micarco</u> Chavy Signature: Date: <u>/2-7-20</u>
M Mata Trucking, RDR Trucking PO BOX 1263, Hobbs, NM, 88241 #08	Name: <u>Micarco</u> Chavy
M MataTrucking, RDR Trucking PO BOX 1263, Hobbs, NM, 88241 #08 DISPOSAL SITE: B360 Hobbs Facility	Name: <u>Micarco</u> Chaug Signature: Date: <u>/2-7-20</u> Signature:
M Mata Trucking, PO BOX 1263, Hobbs, NM, 88241 #08 DISPOSAL SITE: R360 Hobbs Facility MIM66 Carlsbad Hwy Hobbs, NM 88241	Name: <u>Micarco</u> Chavy

•

TRANSPOR	RTER'S MANIFEST
Shippers facility name and address:	LOCATION OF MATERIAL
Holly Energy Partners	Site: Abo Centurion Station
1602 W. Main Street Artesia, NM 88210	Eddy County, New Mexico NMPA:N/A
FRANSPORTERS NAME AND ADDRESS: M	a a second a second
MataTrucking, PO BOX 1263, Hobbs, NM, 88241	
DESCRIPTION OF WASTE:	Load - 20 yards Load - 20 yards
VOLUME: approx. 250 cubicyards	
FACILITY CONTACT:	
	Signature:
Melanie Nolan Helly Energy Partners	Date:
1602 W. Main St., Artesia, NM88210	Date
NAME OF TRANSPORTER: (DRIVER)	0
M MataTrucking,	Name: Micardo -
POBOX 1263, ADR Eagle men	ing Dreffer
Hobbs, NM, 88241 1295	Signature:
	Date: <u>12-07-2020</u>
DISPOSAL SITE:	uniting white
DISPOSAL SITE: R360 Hobbs Facility	Signature: Multing
<u>DISPOSAL SITE:</u> R360 Hobbs Facility MIM66 Carlsbad Hwy Hobbs, NM 88241	Signature: Multinul 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

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Action 18579