SITE CHARACTERIZATION REPORT AND REMEDIATION WORK PLAN

Hobbs Station Tank 5202 Release
Latitude 32.65002°, Longitude -103.142669°
Lea County, New Mexico
NMOCD No. nAPP2300439852

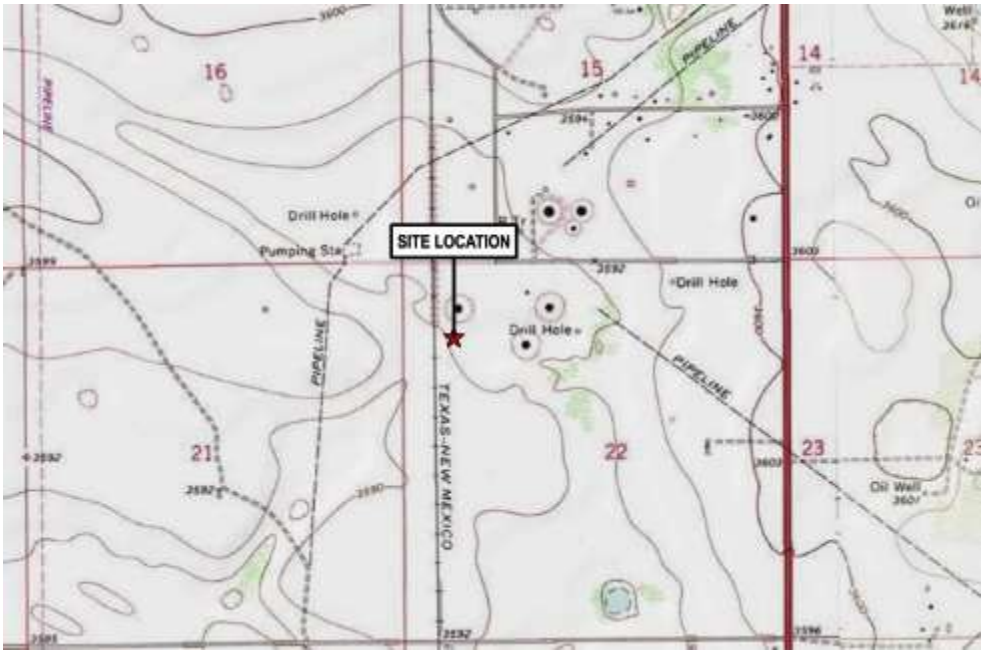
September 26, 2023

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 130E
Midland, Texas 79705

Prepared by:
Russell Sebring
Senior Project Manager

Reviewed and Approved by:
Bryan Gilbert, P.G.
Austin Office ECW Practice Leader



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APPENDICES

1.0 INTRODUCTION

TRC Environmental Corporation (TRC), on behalf of Holly Energy Partners – Operating, L.P. (HEP), has prepared this *Site Characterization Report and Remediation Work Plan* for a crude oil release at the Hobbs Station Tank 5202 (site), located in Unit Letter C, Section 22, Township 19 South, Range 38 East, Lea County, New Mexico. The site is utilized by crude oil haulers to input crude oil into the HEP crude system. The property is privately owned by Enterprise Products and is leased to HEP. The global positioning system (GPS) coordinates for the release point, which is the approximate center of the affected soil footprint, are latitude 32.65002°, longitude -103.142669°. These coordinates correct the erroneous release coordinates shown on the initial Form C-141 (latitude 36.6506°, longitude -103.1419°). The area surrounding the site is industrial and used for oil and gas transportation and storage activities. The location of the site is depicted on Figure 1.

2.0 BACKGROUND

On December 30, 2022, a release of approximately 16 barrels (bbls) of crude oil was discovered when crude oil was observed on the ground surface at the above-referenced GPS coordinates. The release occurred due to corrosion of a 12-inch diameter out-of-service steel pipe (dead leg pipe), which was connected to crude oil Tank 5202, located approximately 100 feet northwest of the release location. The dead leg pipe was approximately 4 feet deep in the area of the release. Once discovered, the release was stopped by closing the valve from Tank 5202 to the dead leg pipe. The release was confined entirely within the HEP property boundary.

Initial notification of the release was provided to the New Mexico Oil Conservation Division (NMOCD) via the NMOCD E-Permitting Notification of Release website on December 30, 2022. NMOCD accepted notification of the release and assigned incident ID No. nAPP2300439852 in a January 4, 2023, email. Following discovery of the release, the dead leg pipe was exposed and a section of the pipe was removed from the pipe excavation in January 2023. The pipe excavation was extended to a depth of approximately 4 to 6 feet bgs based on observations (staining and odor) of crude oil-affected soil; a total of approximately 150 cubic yards (cy) of affected soil were excavated and stockpiled on plastic sheeting immediately adjacent to the pipe excavation.

Initial assessment and delineation activities were conducted by TRC on March 8, 2023, using a backhoe. Due to rock refusal, vertical delineation of the hydrocarbon-affected soil was not completed. On behalf of HEP, TRC notified the NMOCD via email on March 28, 2023, that additional delineation and excavation of affected soil would be conducted and requested a 90-day extension (i.e., to June 28, 2023). In a March 29, 2023, email, NMOCD indicated that the initial Release Notification and Corrective Action Form (Form C-141) had not been submitted and requested that HEP submit Form C-141 immediately. As requested, HEP submitted the Form C-141 to the NMOCD via email and NMOCD portal on March 29, 2023. NMOCD approved the Form C-141 and 90-day extension request via email on March 29, 2023.

On May 11, 2023, additional assessment and delineation activities were conducted by TRC via tracked excavator to determine the extent of affected soil. Lateral delineation of the affected soil was achieved. Due to equipment limitations (i.e., the maximum depth of 18 feet bgs), vertical delineation of affected soil was not achieved. On behalf of HEP, TRC notified the NMOCD via email on June 27, 2023, that additional delineation and excavation of affected soil would be conducted and requested a 90-day extension (i.e., to September 26, 2023). NMOCD approved the 90-day extension request via email on June 29, 2023.

In August 2023, additional assessment and delineation activities were conducted using a sonic drill rig. Two soil borings were advanced to a depth of 50 feet bgs. The results provided vertical delineation of the affected soil. The March, May, and August 2023 assessment and delineation activities and results are discussed in Section 4.

The release location relative to nearby wells, wetlands and floodplains, and karst potential are depicted in Figures 2 through 4, respectively. The release location and initial pipe excavation are shown on Figure 5. The affected soil footprint (i.e., release area) is consistent with the initial pipe excavation. An updated and signed Form C-141 is included in Appendix A. Copies of NMOCD communications are provided in Appendix B.

3.0 NMOCD CLOSURE CRITERIA

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

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

- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

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

3.1 Groundwater Evaluation

3.1.1 Site Investigation

In August 2023, assessment and delineation activities were conducted using a Sonic drilling rig. Two soil borings (SB-2 and SB-4) were advanced to a depth of 50 feet bgs. Boring SB-2 was co-located with test trench TT-2, while boring SB-4 was co-located with test trench TT-4. The lithology beneath the site was observed to consist of backfill (sand and caliche) and caliche to an approximate depth of 20 feet, sandstone to a depth of 30 feet bgs, caliche and gravel to a depth of 35 feet bgs, and sandstone to a depth of 50 feet bgs. Soil in both borings was observed to be dry to the total depth investigated; groundwater was not encountered to a depth of 50 feet bgs. Boring logs for borings SB-2 and SB-4 are included in Appendix C.

3.1.2 Depth to Groundwater Records Research in Surrounding Area

Review of the New Mexico Office of the State Engineer (NMOSE) records indicated 20 wells have been drilled or permitted within 0.5-mile of the release site, as depicted on Figure 2, and described below. This includes seven borings/monitoring wells that were permitted for HEP to conduct the site investigation (L-15534 POD 1 through POD 7), of which only two soil borings have been completed (SB-2 and SB-4). Based on NMOSE records, the depth to water ranges from 35 feet bgs in Prospecting and Development well L-04335, located 0.4 mile north of the site, and 130 feet bgs in Arco domestic well L-08890, located 0.3 mile southeast of the site. Generally, NMOSE well records indicate the depth to water exceeds 50 feet bgs.

Water Wells Drilled within a 0.5-mile Radius as Listed in NMOSE Database

Well ID	Distance (mi.) and Direction from Release Site	Owner	Use	Well Depth (feet bgs)	Depth to Water (feet bgs)
L-15534 POD 1-POD 7	Site Borings (only POD1 and POD2 have been drilled)	HEP	Monitoring (plugged borings)	50 feet (borings SB-2 and SB-4)	Not Encountered
L-08279	0.4 Northeast	Ella Estelle Lee	Domestic	130	58
L-13653 POD1	0.4 Northeast	Agrora Gonzales	Domestic	140	75
L-08890	0.1 Southeast	Arco Pipe Line Company	Domestic	130	130
L-11587	0.3 Southeast	Cindy Yearout	Domestic	136	--

Well ID	Distance (mi.) and Direction from Release Site	Owner	Use	Well Depth (feet bgs)	Depth to Water (feet bgs)
L-11593	0.2 Northeast	Teppco Crude Pipeline	Public	125	--
L-13312 POD4	0.1 North	HEP	Monitoring	63	44
L-13312 POD2	0.1 North	HEP	Monitoring	60	45
L-13312 POD3	0.1 North	HEP	Monitoring	60	53
L-13312 POD1	0.1 North	HEP	Monitoring	60	45
L-13242 POD1	0.4 Northeast	Conestoga Rovers and Assoc.	Monitoring	63	54
L-13242 POD2	0.4 Northeast	Conestoga Rovers and Assoc.	Monitoring	64	54
L-04335	0.4 Northwest	McAlester Fuel Company	Prospecting and Development	110	35
L-12154 POD1	0.4 North	Teppco Crude Oil Trucking	Sanitary in Conjunction with Commercial Use	160	--

Per NMOCD records, the Hobbs Station Tank 5201 (AP-113) release site is located 400 feet north of the site. As shown on Figure 5, there are five monitoring wells associated with the Tank 5201 release site. The locations of the five monitoring wells are generally consistent with the four well IDs L-13312 POD 1 through POD 4 on the NMOSE database, as shown on Figure 2 (only four wells are shown on the NMOSE database). The monitoring wells, which are screened in the uppermost groundwater bearing unit beneath the site, are gauged and sampled semi-annually. As documented in the March 2023 *Site Status Report for 2022*, the total well depth and depth to water for Hobbs Station Tank 5021 wells MW-1 through MW-5 are summarized on the table below.

Tank 5201 Monitor Well Data – December 2022

Monitor Well ID	Total Well Depth* (feet bgs)	Depth to Water* (feet bgs)
MW-1	49.50	Dry (>49.50)
MW-2	49.95	Dry (>49.95)
MW-3	50.68	Dry (>50.68
MW-4	60.13	51.18
MW-5	55.67	51.83

*Total well depth and depth to groundwater measurements corrected by the surveyed length of each above-ground well stick-up to provide depth from ground surface.

Notably, wells MW-1 and MW-2 have been dry since 2020, while well MW-3 has been dry since 2021. This data indicate that the groundwater beneath the site is deeper than 51 feet bgs.

3.2 Surface Features and Other Development

TRC reviewed recent aerial photographs, topographic maps, the NMOSE Point of Discharge (POD) GIS website, and information available from the Lea County, New Mexico Central Appraisal District website. Based on this review, the site is **not** located:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
    - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the site in the aerial photography shown on Figure 2 or appear on the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary highwater mark).
    - The topographic map, aerial photography, and floodplain maps (Figures 1, 2, and 3, respectively) indicate there is not a lakebed, sinkhole, or playa lake located within 200 feet of the site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
    - The aerial photography shown on Figure 2 and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution, or church within 300 feet of the site. As shown on the aerial base map of Figure 2, the nearest permanent residence is located approximately 2,400 feet to the northeast.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.

- No wells or springs located within 500 feet of the site appear in the NMOSE records reviewed by TRC. The nearest domestic water well (L-08890) is located approximately 700 feet east-southeast of the release area (the well is listed by NMOSE as a domestic well but is owned by Arco Pipe Line and there is no residence in the vicinity of the mapped well location at the southern boundary of the Hobbs Station facility).

- Within 1,000 feet of any fresh water well or spring.
  - One freshwater well is located within 1,000 feet of the site, based on the NMOSE records reviewed by TRC. Domestic water well (L-08890) is located approximately 700 feet east-southeast of the release area (the well is listed by NMOSE as a domestic well but is owned by Arco Pipe Line and there is no residence in the vicinity of the mapped well location at the southern boundary of the Hobbs Station facility).
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
  - Based on the property and other records reviewed by TRC, the site is not located within a municipal freshwater well field.
- Within the area overlying a subsurface mine.
  - Based on the property and other records reviewed by TRC, the site is not within the area overlying a subsurface mine.

3.3 3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the site is not located within 300 feet of a wetland. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the site is located within the “low 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. Figure 3 and Figure 4 depict the wetlands and FEMA floodplain information, and the karst potential data, respectively.

3.4 Closure Criteria Currently Assumed Applicable to the Site

The closure criteria for the site was evaluated based on depth to groundwater, surface features, and other development, as described above. A summary of the NMOCD Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

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

Notes: mg/kg = milligrams per kilogram
bgs = below ground surface
TPH = total petroleum hydrocarbons
GRO = gasoline range organics
DRO = diesel range organics
MRO = motor oil range organics
NA = not applicable
BTEX = benzene, toluene, ethylbenzene, and total xylenes
EPA = Environmental Protection Agency
Green Highlighting = Closure Criteria applicable to the site

4.0 SITE ASSESSMENT/CHARACTERIZATION RESULTS

19.15.29.11 NMAC requires that a Site Characterization Report have the components described in Sections 4.1 through 4.5 of this document.

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant site infrastructure, sample locations, and known subsurface features is provided as Figure 5. Two underground electrical lines and one underground gas line were discovered during pipe excavation and assessment activities. One electrical line crosses the pipe excavation just northwest of the release point, while the second electrical line was discovered northwest of the pipe excavation. The gas line is present southeast of the pipe excavation. All three lines are oriented northeast-southwest and are shown on Figure 5.

4.2 Depth to Groundwater

As discussed in Section 3, the depth to groundwater beneath the site is approximately 51 to 52 feet bgs. This is based on December 2022 depth to groundwater measurements from permanent monitor wells MW-1 through MW-5 at the Hobbs Station Tank 5201 site located 400 feet north of the site. Further, groundwater was not encountered in soil borings SB-2 and

SB-4 drilled at the site to a depth of 50 feet bgs. The locations of Hobbs Station Tank 5201 wells MW-1 through MW-5 and site borings SB-2 and SB-4 are shown on Figure 5.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 2. According to the NMOSE database, four domestic and one public well are located within 0.5-mile of the site. The well listed by NMOSE as a public well (L-11593) is owned Teppco Crude Pipeline and was likely erroneously classified as a public well upon installation and filing.

4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the site. There are no watercourses depicted on Figure 1.

4.5 Site Characteristics

Site characteristics discussed in Section 4.5 refer to the March, May, and August 2023 assessment and delineation results. Cumulative soil sample analytical results are presented on Table 1.

4.5.1 March and May 2023 Assessment and Delineation

Initial assessment of the release area was conducted on March 8, 2023. Test trenches TT-1 through TT-4 were excavated to depths ranging from 5 to 13 feet using a backhoe throughout the pipe excavation (i.e., release area) to determine the lateral and vertical extent of affected soil. The test trenches were approximately 5 to 7 feet long and 3 feet wide. Soil samples were collected at 0.5- to 1-foot intervals from 4 feet bgs in TT-3 and 5 feet bgs in TT-1, TT-2, and TT-4 to the total depth of each test trench. The soil samples were collected in laboratory-prepared containers, immediately placed on ice, and delivered to Eurofins Xenco Laboratory in Midland, Texas for laboratory analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015M, and chloride by EPA Method 300. For quality assurance/quality control (QA/QC) purposes, trip blanks were placed in each sample cooler and analyzed for BTEX only.

The lithology was observed to consist of backfill (sand and caliche from previous trenching activities) and caliche to the total depth investigated of 13 feet bgs. Due to rock refusal and observations of odor and staining to the total trench depth at test trenches TT-2 and TT-4, vertical delineation of the hydrocarbon-affected soil was not completed. For the safety of site personnel, the excavated soil was used to temporarily backfill the test trenches.

On May 11, 2023, additional assessment was conducted to delineate the lateral and vertical extent of affected soil indicated by the results of the March 2023 assessment. Test trenches were excavated using a larger track-mounted excavator, which could better penetrate the hard

caliche lithology and had a longer reach. The test trenches were approximately 5 to 7 feet long and 3 feet wide. March 2023 test trenches TT-2 (which was previously excavated to a depth of 5 feet bgs) and TT-4 (which was previously excavated to a depth of 12 feet bgs) were extended to a depth of 18 feet bgs, the maximum reach of the excavator. Soil samples were collected at 1-foot intervals from 7 feet bgs at TT-2 and 13 feet bgs at TT-4 to 18 feet bgs. The soil samples were collected in laboratory-prepared containers, immediately placed on ice, and delivered to Eurofins Xenco Laboratory in Midland, Texas for laboratory analysis of BTEX by EPA Method SW8260, TPH by EPA Method 8015M, and chloride by EPA Method 300. For QA/QC purposes, a duplicate sample was collected from TT-4, while trip blanks were placed in each sample cooler and analyzed for BTEX only.

To delineate the lateral extent of affected soil, test trenches TT-5 and TT-6 were excavated to a depth of 16 feet bgs southwest and northeast of the pipe excavation, respectively. Soil samples were collected at 1-foot intervals from 5 to 16 feet bgs. The soil samples were collected in laboratory-prepared containers, immediately placed on ice, and delivered to Eurofins Xenco Laboratory in Midland, Texas for laboratory analysis of BTEX by EPA Method 8260C, TPH by EPA Method 8015M, and chloride by EPA Method 300. For QA/QC purposes, trip blanks were placed in each sample cooler and analyzed for BTEX only.

The lithology was observed to consist of backfill (sand and caliche from previous trenching activities) and caliche to the total depth investigated of 18 feet bgs. Due to equipment limitations (maximum safe reach of the equipment is 18 feet) and observations of odor and staining to the total depth of test trenches TT-2 and TT-4 (and based on the soil sample analytical results discuss below), vertical delineation of the hydrocarbon-affected soil was not completed. For the safety of site personnel, the excavated soil was used to temporarily backfill the test trenches.

The March and May 2023 test trench locations are depicted on Figure 5. Photographs of the site from the March and May 2023 assessment activities are provided in Appendix D.

4.5.1 March and May 2023 Soil Sample Analytical Results and Delineation Status

Laboratory analytical results for the March and May 2023 soil samples were compared to the NMOCD Closure Criteria for sites where groundwater is present from 51 to 100 feet bgs. The soil sample analytical results and Closure Criteria are summarized on Table 1.

At test trenches TT-5 and TT-6, none of the detected chloride concentrations or non-detect TPH and BTEX sample reporting limits exceeded the Closure Criteria. These samples provide lateral delineation of affected soil to the southwest and northeast of the release area and pipe excavation.

At test trenches TT-1 and TT-3, located near the southeastern and northwestern ends of the pipe excavation, the soil sample results indicated exceedances of the Closure Criteria for

benzene; the sum of benzene, toluene, ethylbenzene, and xylenes (total BTEX); the sum of TPH gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO) (i.e., total TPH); and/or the sum of TPH GRO and DRO (i.e., TPH GRO+DRO) concentrations from 5 to 10 feet bgs in TT-1 and 4 to 10 feet bgs in TT-3. Chloride was not detected above its Closure Criterium in any sample. These samples provide vertical delineation of affected soil near the southeastern and northwestern ends of the pipe excavation.

At test trenches TT-2 and TT-4, located adjacent to the release location within the pipe excavation, the soil sample results indicated exceedances of the Closure Criteria for benzene, total BTEX, TPH GRO+DRO, and/or total TPH concentrations from 5 to 18 feet bgs. Chloride was not detected above its Closure Criterium in any sample. These samples did not provide vertical delineation of affected soil near the release location within the pipe excavation.

Overall, the March and May 2023 assessment and delineation results indicated additional vertical delineation of affected soil was still required at TT-2 and TT-4.

Copies of the laboratory analytical reports and chain-of-custody documentation for the soil samples collected in March and May 2023 are provided in Appendix E.

4.5.2 August 2023 Assessment and Delineation Activities

On August 1 and 30, 2023, soil borings were advanced by Talon LPE using a sonic drilling rig to determine the vertical extent of affected soil at test trenches TT-2 and TT-4. Prior to drilling, the pipe excavation was partially backfilled using the previously excavated and stockpiled soils to facilitate safely staging of the drilling rig within the release area.

Boring SB-4 was drilled on August 1, 2023, to a total depth of 50 feet bgs and was co-located with test trench TT-4, located just east of the release location and within the release area. Continuous soil samples were collected for logging and sampling purposes. Non-dedicated sampling equipment was decontaminated prior to its initial use and before each sample was collected. Soil samples were collected at 5-foot intervals from 20 to 40 feet bgs. The soil samples were collected in laboratory-prepared containers, immediately placed on ice, and delivered to Eurofins Xenco Laboratory in Midland, Texas for laboratory analysis of by EPA Method 8260C, TPH by EPA Method 8015M, and chloride by EPA Method 300. For QA/QC purposes, a duplicate sample was collected from SB-4 and trip blanks were placed in each sample cooler and analyzed for BTEX only. Following drilling, the borehole was abandoned and plugged with hydrated bentonite chips. The sonic drill rig broke down after drilling at SB-4, so drilling of SB-2 was delayed.

After the sonic drill rig was repaired, boring SB-2 was drilled on August 30, 2023, to a total depth of 50 feet bgs. Boring SB-2 was co-located with test trench TT-2, located northwest of the release location and within the release area. Continuous soil samples were collected for logging and sampling purposes. Non-dedicated sampling equipment was decontaminated prior to its

initial use and before each sample was collected. Soil samples were collected at 5-foot intervals from 15 to 40 feet bgs. The soil samples were collected in laboratory-prepared containers, immediately placed on ice, and delivered to Eurofins Xenco Laboratory in Midland, Texas for laboratory analysis of BTEX by EPA Method 8260C, TPH by EPA Method 8015M, and chloride by EPA Method 300. For QA/QC purposes, trip blanks were placed in each sample cooler and analyzed for BTEX only. Following drilling, the borehole was abandoned and plugged with hydrated bentonite chips.

The observed lithology beneath the site consisted of backfill (sand and caliche from previous trenching activities) and caliche to a depth of 20 feet bgs, sandstone to a depth of 30 feet bgs, caliche and gravel to a depth of 35 feet bgs, and sandstone to the total depth investigated of 50 feet bgs. Soil in both borings was observed to be dry to the total depth investigated of 50 feet bgs; no groundwater was encountered. Boring logs for borings SB-2 and SB-4 are included in Appendix C. Soil cuttings from the borings were staged in the existing plastic-lined stockpile immediately adjacent to the pipe excavation.

The August 2023 soil boring locations are depicted on Figure 5. Photographs of the site from the March and May 2023 assessment activities are provided in Appendix D.

4.5.3 August 2023 Soil Sample Analytical Results and Delineation Status

Laboratory analytical results for the August 2023 soil samples were compared to the NMOCD Closure Criteria for sites where groundwater is present from 51 to 100 feet bgs. The soil sample analytical results and Closure Criteria are summarized on Table 1.

Only one soil sample collected from borings SB-2 and SB-4 had BTEX and/or TPH concentrations above Closure Criteria: the sample collected at 15 feet bgs from boring SB-2 had total BTEX, TPH GRO+DRO, and total TPH concentrations above the Closure Criteria. The detected and non-detect reporting limit concentrations in the remaining samples collected from 20 to 40 feet bgs did not exceed the Closure Criteria for BTEX, TPH, or chloride.

Overall, the March, May, and August 2023 assessment and delineation results indicate the following:

- Benzene, total BTEX, TPH GRO+DRO, and total TPH concentrations have been laterally and vertically delineated to the Closure Criteria.
- Chloride does not exceed the Closure Criterion in soil at the site.
- The lateral extent of affected soil is consistent with the initial pipeline excavation shown on Figure 5.
- The vertical extent of affected soil extends to a depth of 10 feet at the northwestern and southeastern ends of the initial pipe excavation (i.e., at TT-3 and TT-1), and extends

to a depth of 18 feet bgs in the middle portion of the initial pipe excavation near the release point (i.e., at TT-2/SB-2 and TT-4/SB-4).

Based on the results of the assessment and delineation activities, the release area is approximately 800 square feet. The release area and initial pipe excavation are shown on Figure 5.

Copies of the laboratory analytical reports and chain-of-custody documentation for the soil samples collected in March and May 2023 are provided in Appendix E.

4.5.4 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reports generated by Eurofins Xenco Laboratory in Midland, Texas for the assessment and delineation sampling activities conducted from March through August 2023 were reviewed to ensure that reported analytical results met data quality objectives. QC data indicate that measurement data are sufficient to meet method quality objectives, reported data are defensible, and QC mechanisms were generally effective in ensuring measurement data reliability within the expected limits of sampling and analytical error with one exception: due to a significantly low (<10%) surrogate recovery (Method SW846 8021B), the non-detect benzene result in sample TT-1 @ 6' collected in March 2023 is not usable for project objectives. The laboratory analytical results and data review checklists are provided as Appendix E.

5.0 PROPOSED REMEDIATION WORK PLAN

It is proposed that soil with benzene, total BTEX, TPH GRO+DRO, and total TPH concentrations above the Closure Criteria be excavated and removed from the site. The proposed excavation extent and target excavation depths are shown on Figure 6. It is estimated that a total of 560 cy (*ex situ*) of soil will be excavated for off-site disposal (including the soil remaining in the stockpile that was not used to backfill the initial pipe excavation).

The soil will be excavated using a backhoe or excavator. Field observations of the potential presence of petroleum hydrocarbons, including hydrocarbon odor and staining and PID readings, will be recorded throughout the excavation. Confirmation soil samples will be collected for analysis of BTEX by EPA Method 8260 and TPH by EPA Method 8015M. Excavation bottom samples will be collected every 200 square feet, while excavation sidewall samples will be collected every 400 square feet. Pursuant to 19.15.29.12(D) NMAC, confirmation samples will consist of five-point composite samples, and discrete grab samples will be collected from any wet or discolored areas. If confirmation sample benzene, total BTEX, TPH DRO+GRO, or total TPH concentrations exceed Closure Criteria, additional excavation would be performed until additional confirmation samples indicated concentrations are below Closure Criteria.

Due to the maximum depth of the planned excavation (19 feet), the excavation sidewalls will be stepped or sloped at a 1:1 slope to ensure stability of the excavation and the safety of site

personnel. Non-affected soil excavated for stepping or sloping purposes will be segregated from the affected excavated soil and re-used during excavation backfilling.

The excavation will be backfilled to grade with clean fill material once confirmation sample analytical results are determined to be below the Closure Criteria. Pursuant to 19.15.29.13 NMAC, the affected surface areas will be restored to pre-release conditions by surface grading to near original conditions and contouring to prevent erosion and ponding, promote stability, and preserve storm water flow patterns. Excavated soil will be stockpiled on plastic sheeting during the excavation, characterized, and disposed at an NMOCD-approved disposal facility.

It is anticipated that excavation and backfilling will be completed within 90 days of approval of this Remediation Work Plan. A Remediation Summary and Site Closure Request will be submitted to NMOCD within 60 days of completing the excavation and backfilling activities.

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, New Mexico 88210

Copy 2: Jason Leik, P.E.
HEP
2828 N. Harwood Street, Suite 1300
Dallas, Texas 75201

Copy 3: Melanie Nolan
HEP
1602 W. Main
Artesia, NM 88210

TABLE

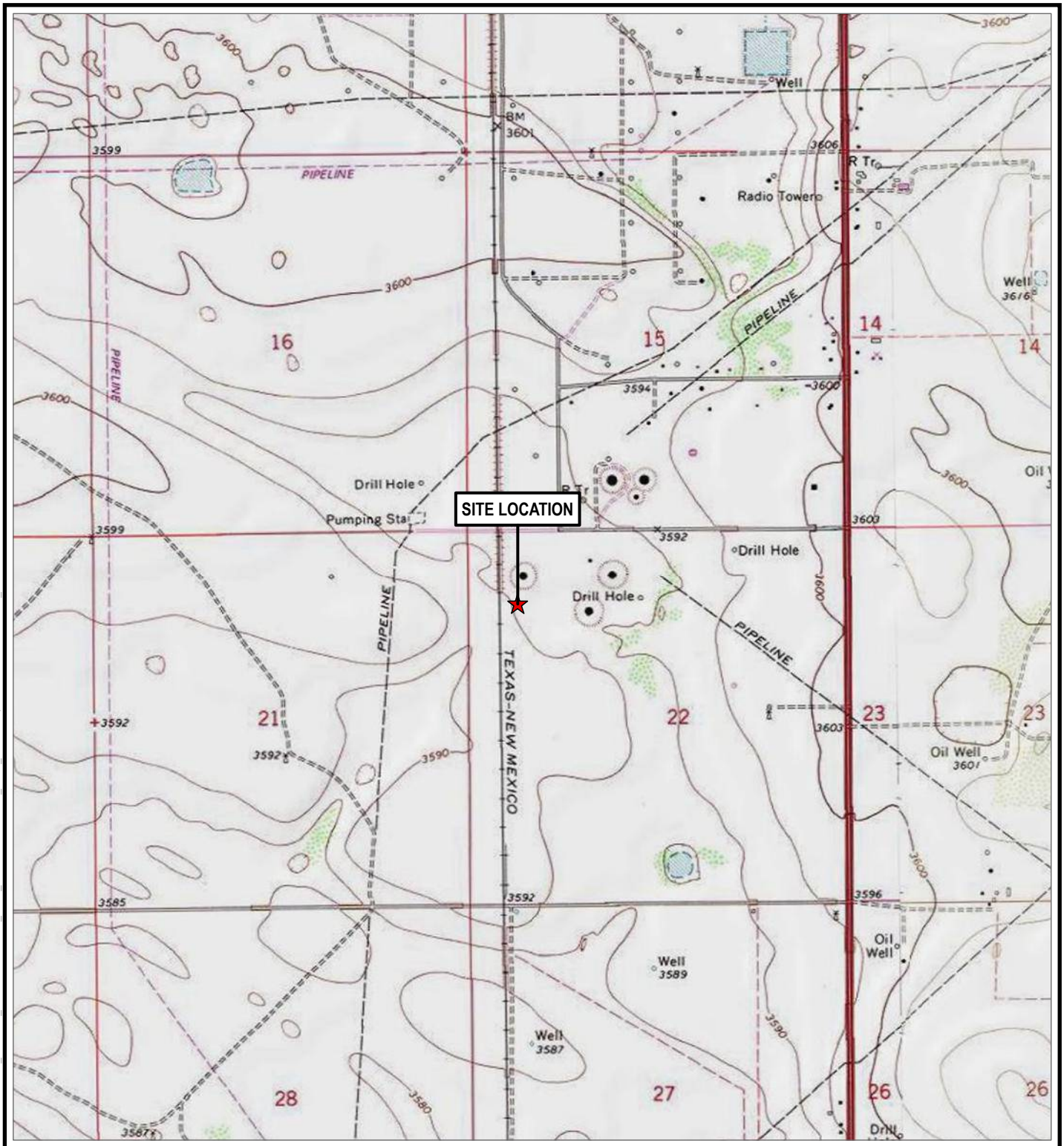
TABLE 1
SUMMARY OF DELINEATION SOIL SAMPLE ANALYTICAL RESULTS
HOLLY ENERGY PARTNERS - OPERATING, L.P.
Hobbs Station Tank 5202 Crude Release
NMOCD Tracking No.: NAPP2300439852

Sample ID	Sample Date	Sample Depth (feet bgs)	Sample Type	Soil Status	TPH GRO	TPH DRO	TPH MRO	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
					mg/kg									
NMOCD Closure Criteria (GW 51-100 feet bgs)					1,000		NA	2,500	10	NA	NA	NA	50	10,000
Trench 1														
TT-1@5	3/8/2023	5	Test Trench	In Situ	9430	5220	<499	14700	19.8	55.7	23.9	42.1	142	66.5
TT-1@6	3/8/2023	6	Test Trench	In Situ	6850	4700	<250	11600	<0.998 [R]	106	48.6	86.7	241	65.1
TT-1@7	3/8/2023	7	Test Trench	In Situ	7550	3240	<250	10800	45.9	150	71.9	124	392	63.0
TT-1@8	3/8/2023	8	Test Trench	In Situ	<50.0	<50	<50	<50	0.00206	0.00244	<0.00200	<0.00399	0.0045	41.6
TT-1@9	3/8/2023	9	Test Trench	In Situ	430	468	<49.9	898	6.82	23.9	12.5	21.5	64.7	46.9
TT-1@10	3/8/2023	10	Test Trench	In Situ	730	726	<49.9	1460	0.543	5.25	5.2	8.53	19.5	46.1
TT-1@10.5	3/8/2023	10.5	Test Trench	In Situ	<50.0	101	<50.0	101	<0.199	1.27	1.04	1.9	4.21	50.3
TT-1@11	3/8/2023	11	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	51.5
TT-1@11.5	3/8/2023	11.5	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	48.4
Trench 2														
TT-2@5	3/8/2023	5	Test Trench	In Situ	1510	1550	<50.0	3060	3.42	26.4	24.2	37	91	55.4
TT-2@7	5/11/2023	7	Test Trench	In Situ	1270	3260	<250	4530	<0.201	5.53	10.6	18.7	34.8	285
TT-2@8	5/11/2023	8	Test Trench	In Situ	1440	3830	<250	5270	0.403	18.7	27.1	51.3	97.5	2360
TT-2@9	5/11/2023	9	Test Trench	In Situ	2520	4350	<249	6870	1.04	38.2	46.8	86.3	172	2430
TT-2@10	5/11/2023	10	Test Trench	In Situ	1120	2830	<250	7050	<0.0501	11.7	21	36.9	69.6	771
TT-2@11	5/11/2023	11	Test Trench	In Situ	2520	4380	<50.0	6900	0.142	26.2	38.4	61.9	127	307
TT-2@12	5/11/2023	12	Test Trench	In Situ	854	1780	<249	2630	<0.198	3.32	8.35	17.1	28.8	182
TT-2@13	5/11/2023	13	Test Trench	In Situ	363	1610	<49.8	1970	<0.0501	0.532*1	2.49	5.23	8.25	178
TT-2@14	5/11/2023	14	Test Trench	In Situ	<50.0	530	<49.8	530	<0.0503	<0.252	0.0507	<0.101	<0.101	60.7
TT-2@15	5/11/2023	15	Test Trench	In Situ	1210	2390	<50.0	3600	0.0762	4.07*1	12.7	23.7	40.6	226
TT-2@16	5/11/2023	16	Test Trench	In Situ	1470	2520	<49.9	3990	0.229	9.19	19	32.3	60.7	58.4
TT-2@17	5/11/2023	17	Test Trench	In Situ	<49.8	377	<49.8	377	<0.0495	<0.248	<0.0495	<0.0990	<0.0990	45.0
TT-2@18	5/11/2023	18	Test Trench	In Situ	251	1910	236	2400	<0.198	<0.990	1.46	3.29	4.75	109
Boring SB-2														
SB-2@15'	8/30/2023	15	Boring	In Situ	1560	2740	<50.5	4300	9.6	62	38.9	61	171.0	76.2
SB-2@20'	8/30/2023	20	Boring	In Situ	<50.1	100	<50.1	100	<0.00101	<0.00505	<0.00101	<0.00202	<0.00202	53.8
SB-2@25'	8/30/2023	25	Boring	In Situ	<49.7	77	<49.7	77	<0.000996	<0.00498	<0.000996	<0.00199	<0.00199	35.3
SB-2@30'	8/30/2023	30	Boring	In Situ	<50.4	<50.4	<50.4	<50.4	<0.00100	<0.00501	<0.00100	<0.00200	<0.00200	50.7
SB-2@35'	8/30/2023	35	Boring	In Situ	<49.9	199	<49.9	199	<0.00100	<0.00502	<0.00100	<0.00201	<0.00201	51.4
SB-2@40'	8/30/2023	40	Boring	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00100	<0.00500	<0.00100	<0.00200	<0.00200	27.7
Trench 3														
TT-3@4	3/8/2023	4	Test Trench	In Situ	4950	3720	<250	8670	24.9	124	72.7	126	348	78.2
TT-3@5	3/8/2023	5	Test Trench	In Situ	7850	4570	<250	12400	57.4	184	90.3	156	487	50.0
TT-3@6	3/8/2023	6	Test Trench	In Situ	9360	5670	<499	15000	58.2	194	95.5	155	502	48.2
TT-3@7	3/8/2023	7	Test Trench	In Situ	7920	4970	<499	12900	40.7	18.2	84.8	133	276	51.3
TT-3@8	3/8/2023	8	Test Trench	In Situ	5820	3570	<249	9390	43.4	179	95	153	471	40.4
TT-3@9	3/8/2023	9	Test Trench	In Situ	7820	4890	<250	12700	54.3	176	98.8	145	474	51.7
TT-3@10	3/8/2023	10	Test Trench	In Situ	4450	3180	<250	7630	18.7	80.2	49	72.1	220	47.6
TT-3@10.5	3/8/2023	10.5	Test Trench	In Situ	123	187	<49.9	310	3.66	14.2	9.44	13.8	41.1	15.4
Trench 4														
TT-4@5	3/8/2023	5	Test Trench	In Situ	8200	3870	<250	12100	43.2	138	65.1	93.7	325	69.2
TT-4@6	3/8/2023	6	Test Trench	In Situ	8840	3740	<250	12600	24.2	85.6	39.9	69.7	219	51.4
TT-4@7	3/8/2023	7	Test Trench	In Situ	837	923	109	1870	10.6	38.8	16.5	32.5	98.4	33.1
TT-4@8	3/8/2023	8	Test Trench	In Situ	729	812	98	1640	1.43	7.87	4.86	19.8	34.0	35.5
TT-4@9	3/8/2023	9	Test Trench	In Situ	912	825	96.9	1830	4.07	15.7	6.36	12.7	38.8	38.9
TT-4@10	3/8/2023	10	Test Trench	In Situ	865	858	100	1820	17.1	181	22.3	36.5	257	36.3
TT-4@11	3/8/2023	11	Test Trench	In Situ	864	893	107	1860	4.69	18.7	9.44	16.9	49.7	34.8
TT-4@11.5	3/8/2023	11.5	Test Trench	In Situ	804	886	105	1800	8.94	80.4	44.5	79.6	213	41.3
TT-4@12	3/8/2023	12	Test Trench	In Situ	707	875	103	1690	3.80	44.2	26.3	45.1	119	37.8
TT-4@13	5/11/2023	13	Test Trench	In Situ	2770	4280	<249	7050	4.14	46	39.9	65.1	155	93.8
DUP-01 (TT-4-13)	5/11/2033	13	Test Trench	In Situ	3000	4740	<250	7740	3.43	43.3	38.2	63.1	148	95.7
TT-4@14	5/11/2023	14	Test Trench	In Situ	2340	4090	<249	6430	3.61	32.7	33.8	60.3	130	81.0
TT-4@15	5/11/2023	15	Test Trench	In Situ	2810	4130	<250	6940	1.63	21.5	20.4	34.4	77.9	41.2
TT-4@16	5/11/2023	16	Test Trench	In Situ	1970	3090	<49.9	5060	0.762	24.1	36.2	66.8	127	47.0
TT-4@17	5/11/2023	17	Test Trench	In Situ	1940	3890	479	6310	3.39	37	27.1	47.2	115	81.3
TT-4@18	5/11/2023	18	Test Trench	In Situ	1780	4400	507	6690	1.39	18.2	13.6	23.6	56.8	83.7
Boring SB-4														
SB-4@20'	8/1/2023	20	Boring	In Situ	<50.4	51.3	<50.4	51.3	<0.000990	<0.00495	0.00725	0.0185	0.0258	80.7
DUP-1 (SB-4@20')	8/1/2023	20	Boring	In Situ	<49.6	<49.6	<49.6	<49.6	<0.000996	<0.00498	<0.000996	<0.00199	<0.00199	37.8
SB-4@25'	8/1/2023	25	Boring	In Situ	<49.7	<49.7	<49.7	<49.7	0.00267	<0.00502	<0.00100	<0.00201	0.00267	49.5
SB-4@30'	8/1/2023	30	Boring	In Situ	<50.4	<50.4	<50.4	<50.4	<0.0504	<0.252	<0.0504	<0.101	<0.101	33.5
SB-4@35'	8/1/2023	35	Boring	In Situ	<49.8	<49.8	<49.8	<49.8	<0.000992	<0.00496	<0.000992	<0.00198	<0.00198	49.9
SB-4@40'	8/1/2023	40	Boring	In Situ	<50.2	<50.2	<50.2	<50.2	<0.0505	<0.253	<0.0505	<0.101	<0.101	48.7
Trench 5														
TT-5@5	5/11/2023	5	Test Trench	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00100	<0.00500	<0.00100	<0.00200	<0.00200	60.9
TT-5@6	5/11/2023	6	Test Trench	In Situ	<49.8	<49.8	<49.8	<49.8	<0.000990	<0.00495	<0.000990	<0.00198	<0.00198	51.8
TT-5@7	5/11/2023	7	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00100	<0.00502	<0.00100	<0.00201	<0.00201	45.8
TT-5@8	5/11/2023	8	Test Trench	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00102	<0.00509	<0.00102	<0.00204	<0.00204	59.4
TT-5@9	5/11/2023	9	Test Trench	In Situ	<50.0	<50.0	<50.0	<50.0	<0.000992	<0.00496	<0.000992	<0.00198	<0.00198	44.4
TT-5@10	5/11/2023	10	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.000990	<0.00495	<0.000990	<0.00198	<0.00198	46.7
TT-5@11	5/11/2023	11	Test Trench	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00101	<0.00504	<0.00101	<0.00202	<0.00202	48.8
TT-5@12	5/11/2023	12	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00100	<0.00502	<0.00100	<0.00201	<0.00201	43.3
TT-5@13	5/11/2023	13	Test Trench	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00100	<0.00501	<0.00100	<0.00200	<0.00200	60.7
TT-5@14	5/11/2023	14	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.000990	<0.00495	<0.000990	<0.00198	<0.00198	64.5
TT-5@15	5/11/2023	15	Test Trench	In Situ	<49.8	<49.8	<49.8	<49.8	<0.000996	<0.00498	<0.000996	<0.00199	<0.00199	48.3
TT-5@16	5/11/2023	16	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00100	<0.00502	<0.00100	<0.00201	<0.00201	43.9
Trench 6														
TT-6@5	5/11/2023	5	Test Trench	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00100	<0.00501	<0.00100	<0.00200	<0.00200	40.9
TT-6@6	5/11/2023	6	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00101	<0.00505	<0.00101	<0.00202	<0.00202	70.8
TT-6@7	5/11/2023	7	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.000990	<0.00495	<0.000990	<0.00198	<0.00198	58.2
TT-6@8	5/11/2023	8	Test Trench	In Situ	<49.8	<49.8	<49.8	<49.8	<0.00101	<0.00505	<0.00101	<0.00202	<0.00202	50.8
TT-6@9	5/11/2023	9	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.000996	<0.00498	<0.000996	<0.00199	<0.00199	51.8
TT-6@10	5/11/2023	10	Test Trench	In Situ	<49.8	<49.8	<49.8	<49.8	<0.000994	<0.00497	<0.000994	<0.00199	<0.00199	43.3
TT-6@11	5/11/2023	11	Test Trench	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00100	<0.00500	<0.00100	<0.00200	<0.00200	46.5
TT-6@12	5/11/2023	12	Test Trench	In Situ	<49.8	<49.8	<49.8	<49.8	<0.000996	<0.00498	<0.000996	<0.00199	<0.00199	38.8
TT-6@13	5/11/2023	13	Test Trench	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00100	<0.00502	<0.00100	<0.00201	<0.00201	51.8
TT-6@14	5/11/2023	14	Test Trench	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00100	<0.00501	<0.00100	<0.00200	<0.00200	52.9
TT-6@15	5/11/2023	15	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00101	<0.00504	<0.00101	<0.00202	<0.00202	37.6
TT-6@16	5/11/2023	16	Test Trench	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00101	<0.00505	<0.00101	<0.00202	<0.00202	39.5

Notes:

bgs Below ground surface
Dup Field Duplicate Sample
DRO Diesel Range Organics
GRO Gasoline Range Organics
mg/kg milligrams per kilogram
MRO Motor Oil Range Organics
NMOCD New Mexico Oil Conservation Division
Total BTEX Sum of benzene, toluene, ethylbenzene, xylenes
Total TPH Sum of TPH DRO, GRO, and MRO
TPH Total Petroleum Hydrocarbons
< Parameter not detected above laboratory reporting limit
Orange Concentration is above the applicable NMOCD Closure Criteria (GW 51-100 feet bgs)
NA Not applicable
[R] Result not usable for project objectives due to significantly low recoveries in the associated surrogate(s)

FIGURES



★ SITE LOCATION

BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.
HOBBS WEST, NM 1980.
DATA SOURCES: ESRI, USGS, TRC

0 1,000 2,000
FEET
1:24,000 1" = 2,000'

PROJECT:
HOLLY ENERGY PARTNERS – OPERATING, L.P.
HOBBS STATION TANK 5202 RELEASE
LEA COUNTY, NEW MEXICO

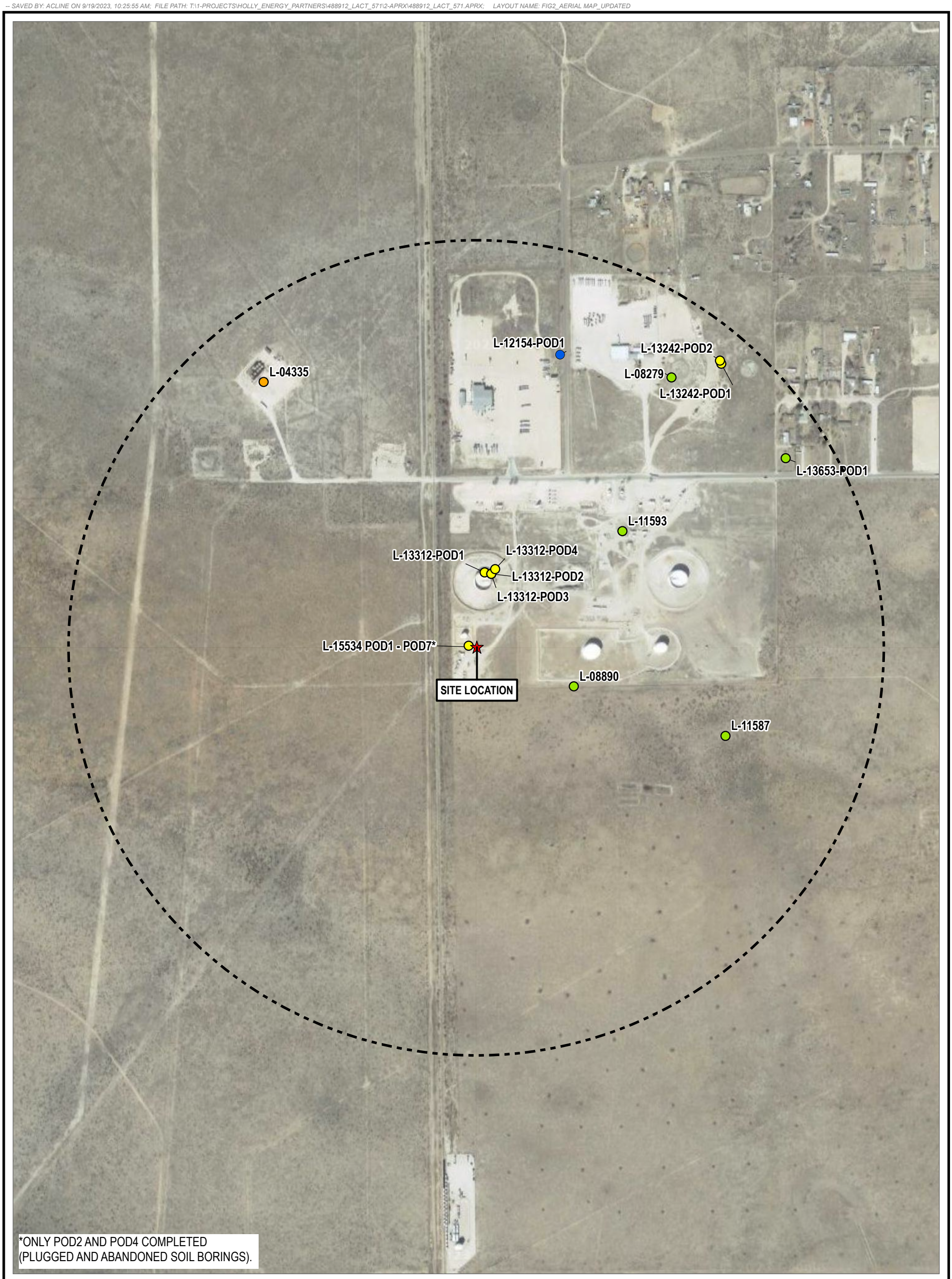
TITLE:
SITE LOCATION MAP

DRAWN BY:	A. CLINE	PROJ. NO.:	488912.0000
CHECKED BY:	B. TRACY		
APPROVED BY:	B. GILBERT		**FIGURE 1**
DATE:	SEPTEMBER 2023		

TRC
505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: 488912_LACT_571

COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW MEXICO EAST FIPS 3001 FEET; MAP ROTATION: 0
-- SAVED BY: ACLINE ON 9/19/2023, 10:25:55 AM; FILE PATH: T:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\488912_LACT_571\2-APRX\488912_LACT_571.APRX; LAYOUT NAME: FIG2_AERIAL MAP_UPDATED



- SITE LOCATION
- COMMERCIAL/SANITARY WELL
- DOMESTIC/ PUBLIC WELL
- MONITORING WELL
- PROSPECTING AND DEVELOPMENT WELL
- 1/2 MILE RELEASE AREA RADIUS

BASE MAP: GOOGLE SATELLITE ONLINE IMAGERY SERVICE.
DATA SOURCES: THE NEW MEXICO OFFICE OF THE STATE ENGINEER (OSE) POINT OF DIVERSIONS (POD) LAYER, TRC

0 300 600 FEET
1:7,200 1" = 600'

PROJECT:
HOLLY ENERGY PARTNERS – OPERATING, L.P.
HOBBS STATION TANK 5202 RELEASE
LEA COUNTY, NEW MEXICO

TITLE:
AERIAL MAP

DRAWN BY:	A. CLINE	PROJ. NO.:	528833
CHECKED BY:	B. TRACY		
APPROVED BY:	B. GILBERT		**FIGURE 2**
DATE:	SEPTEMBER 2023		

TRC
505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: 488912_LACT_571

COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW MEXICO EAST FIPS 3001 FEET; MAP ROTATION: 0
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★ SITE LOCATION

US FISH AND WILDLIFE SERVICE NATIONAL WETLAND INVENTORY FRESHWATER POND

1/2 MILE RELEASE AREA RADIUS

NO FEMA FLOODPLAINS ARE LOCATED IN THIS AREA

BASE MAP: GOOGLE SATELLITE ONLINE IMAGERY SERVICE.
DATA SOURCES: ESRI, USFWS, FEMA, TRC

N

0 300 600 FEET

1:7,200 1" = 600'

PROJECT:
HOLLY ENERGY PARTNERS – OPERATING, L.P.
HOBBS STATION TANK 5202 RELEASE
LEA COUNTY, NEW MEXICO

TITLE:
WETLANDS AND FEMA FLOODPLAIN MAP

DRAWN BY:	A. CLINE	PROJ. NO.:	528833
CHECKED BY:	B. TRACY		
APPROVED BY:	B. GILBERT		**FIGURE 3**
DATE:	SEPTEMBER 2023		

TRC
505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: 488912_LACT_571

COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW MEXICO EAST FIPS 3001 FEET; MAP ROTATION: 0
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SITE LOCATION

1/2 MILE RELEASE AREA RADIUS

LOW KARST POTENTIAL

BASE MAP: GOOGLE SATELLITE ONLINE IMAGERY SERVICE.
DATA SOURCES: ESRI, USGS, TRC

0 300 600 FEET

1:7,200 1" = 600'

PROJECT:
HOLLY ENERGY PARTNERS – OPERATING, L.P.
HOBBS STATION TANK 5202 RELEASE
LEA COUNTY, NEW MEXICO

TITLE:
KARST POTENTIAL MAP

DRAWN BY:	A. CLINE	PROJ. NO.:	488912.0000
CHECKED BY:	B. TRACY		
APPROVED BY:	B. GILBERT		**FIGURE 4**
DATE:	SEPTEMBER 2023		

TRC
505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: 488912_LACT_571

COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW MEXICO EAST FIPS 3001 FEET: MAP ROTATION: 0
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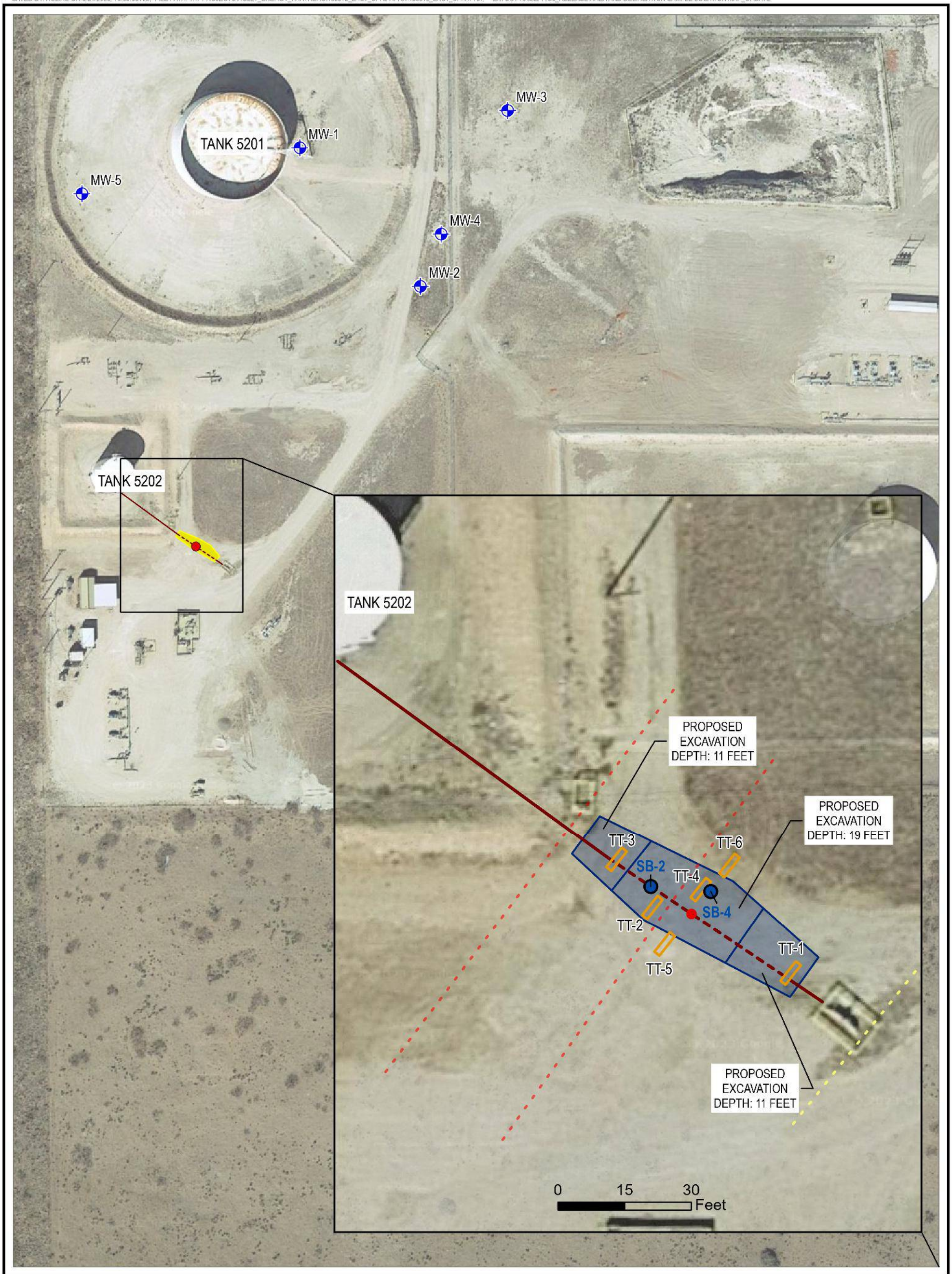


TANK 5201 MONITORING WELL
RELEASE LOCATION
SOIL BORING
TEST TRENCH
INITIAL EXCAVATION AREA (PARTIALLY BACKFILLED)

ELECTRIC LINE
GAS LINE
HEP PIPELINE
REMOVED HEP PIPELINE

PROJECT:
HOLLY ENERGY PARTNERS – OPERATING, L.P.
HOBBS STATION TANK 5202 RELEASE
LEA COUNTY, NEW MEXICO

TITLE:
RELEASE AREA AND DELINEATION SAMPLE LOCATION MAP

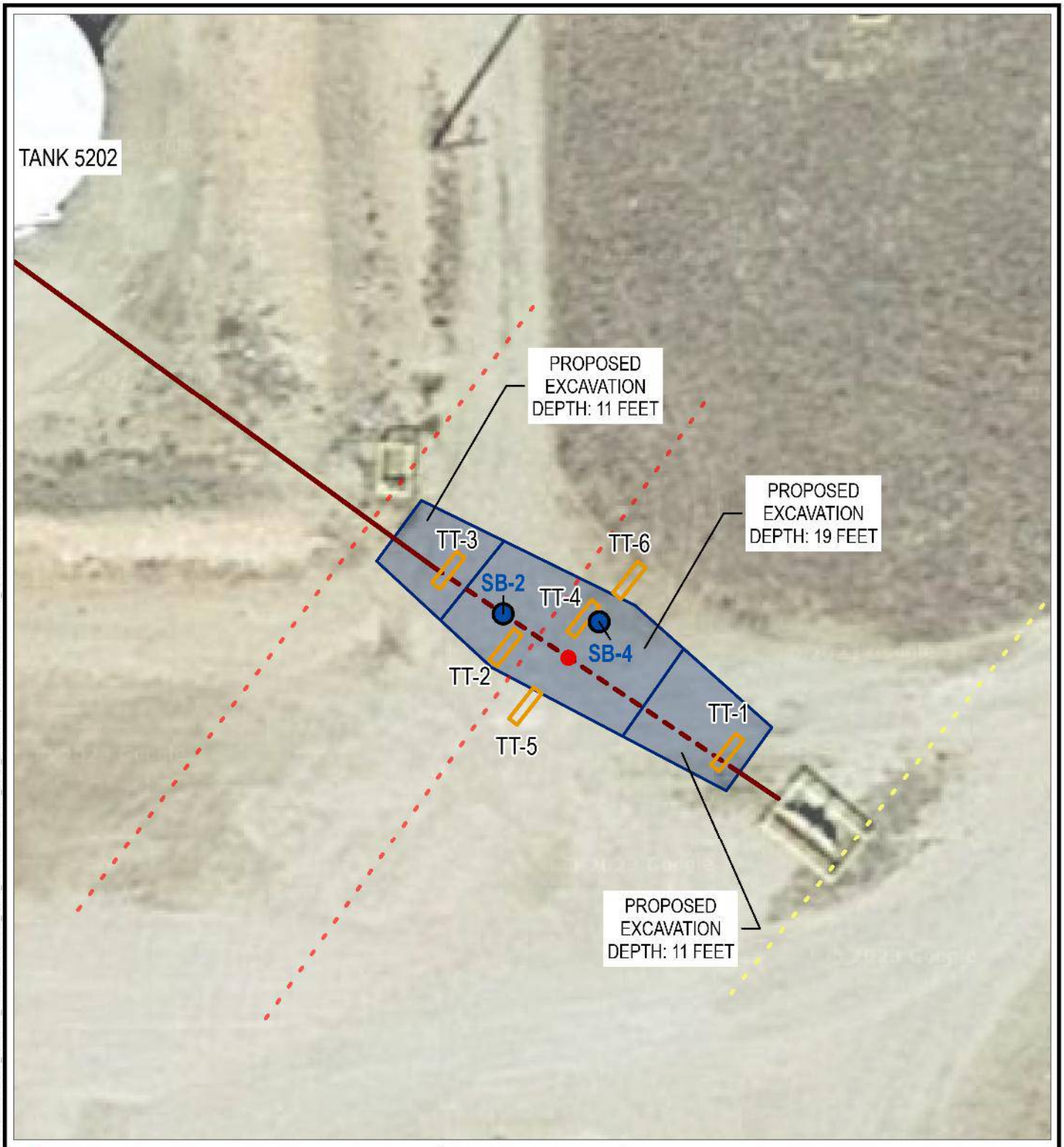
DRAWN BY:	A. CLINE	PROJ. NO.:	528833
CHECKED BY:	B. TRACY		
APPROVED BY:	B. GILBERT		FIGURE 5
DATE:	SEPTEMBER 2023		

BASE MAP: GOOGLE SATELLITE ONLINE IMAGERY SERVICE.
DATA SOURCES: THE NEW MEXICO OFFICE OF THE STATE ENGINEER (OSE) POINT OF DIVERSIONS (POD) LAYER, TRC

0 50 100 FEET
1:1,200 1" = 100'

505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: 488912_LACT_571



RELEASE LOCATION
SOIL BORING
ELECTRIC LINE
GAS LINE
HEP PIPELINE
REMOVED HEP PIPELINE
TEST TRENCH
PROPOSED EXCAVATION AREA

BASE MAP: GOOGLE SATELLITE ONLINE IMAGERY SERVICE.
DATA SOURCES: THE NEW MEXICO OFFICE OF THE STATE ENGINEER (OSE) POINT OF DIVERSIONS (POD) LAYER, TRC

N

0 10 20
FEET
1:240 1" = 20'

PROJECT: HOLLY ENERGY PARTNERS - OPERATING, L.P
HOBBS STATION TANK 5202 RELEASE
LEA COUNTY, NEW MEXICO

TITLE: PROPOSED EXCAVATION AREA

DRAWN BY:	A. CLINE	PROJ. NO.:	528833
CHECKED BY:	B. TRACY		
APPROVED BY:	B. GILBERT		FIGURE 6
DATE:	SEPTEMBER 2023		

505 EAST HUNTLAND DRIVE
SUITE #250
AUSTIN, TX 78752
PHONE: 512.329.6080

FILE: 488912_LACT_571

COORDINATE SYSTEM: NAD 1983 STATEPLANE NEW MEXICO EAST FIPS 3001 FEET MAP ROTATION: 0
SAVED BY: ACLINE ON 9/21/2023 10:09:38 AM - FILE PATH: T:\1-PROJECTS\HOLLY_ENERGY_PARTNERS\488912_LACT_571\2-APPX\488912_LACT_571 APRX - LAYOUT NAME: FIG6_PROPOSED EXCAVATION LOCATION

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

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Holly Energy Partners-Operating LP	OGRID	282505
Contact Name	Melanie Nolan	Contact Telephone	214-605-8303
Contact email	Melanie.Nolan@hollyenergy.com	Incident # *(assigned by OCD)*	nAPP2300439652
Contact mailing address	1602 W. Main, Artesia, NM 88210		

Location of Release Source

Latitude 36.6506 Longitude -103.1419
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Hobbs Station	Site Type	Crude Station
Date Release Discovered	12/30/2022	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
C	22	19S	38E	Lea

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) 16 bbls	Volume Recovered (bbls) 0
☐ 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

Cause of Release was due to corrosion of a dead leg pipe.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Melanie Nolan Title: Environmental Specialist

Signature: Melanie Nolan Date: 1/4/2023

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

OCD Only

Received by: _____ Date: _____

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

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

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	51 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☒ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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.

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

Printed Name: Melanie Nolan Title: Environmental Specialist

Signature: Melanie Nolan Date: 9-22-2023

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

OCD Only

Received by: Date:

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
APPlication ID	

Remediation Plan

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

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Melanie Nolan Title: Environmental Specialist

Signature: Melanie Nolan Date: 9-22-2023

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

OCD Only

Received by: Date:

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

Signature: Nelson Velez Date: 12/14/2023

Appendix B: Copies of NMOCD Communications

Gilbert, Bryan

From: OCDOnline@state.nm.us
Sent: Wednesday, January 4, 2023 12:05 PM
To: Melanie Nolan
Subject: [EXTERNAL Email]: The Oil Conservation Division (OCD) has accepted the application, Application ID: 172238

To whom it may concern (c/o Melanie Nolan for HOLLY ENERGY PARTNERS - OPERATING, LP),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2300439852, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2300439852, on all subsequent C-141 submissions and communications regarding the remediation of this release.
NOTE: As of December 2019, NMOCD has discontinued the use of the “RP” number.
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Gilbert, Bryan

From: Sebring, Russell
Sent: Tuesday, March 28, 2023 3:26 PM
To: Bratcher, Mike, EMNRD
Cc: Melanie Nolan; Leik, Jason; Gilbert, Bryan
Subject: HEP - Hobbs Station - nAPP2300439852 - Extension Request
Attachments: Hobbs Station Notification NMOCD 1-4-2023.pdf

Mr. Mike Bratcher,

On December 30, 2022, an estimated release of 16 barrels of crude oil occurred from an underground pipeline at the Holly Energy Partners – Operating, L.P. (HEP) Hobbs Station in Lea County, New Mexico. The NMOCD was notified of the release on December 30, 2022, and the initial C-141 was submitted on January 4, 2022. The initial C-141 was assigned Tracking No. NAPP2300439852. A copy of the initial C-141 is attached. Based on the date of the release, a Closure Report is due to NMOCD by March 30, 2023.

Initial excavation of crude oil-affected soils and removal of the pipeline has been completed. Characterization activities were conducted at the site on March 8, 2023; however, due to soil conditions (mechanical refusal), vertical delineation was not completed as preliminary soil sample analytical results indicate that further response action is necessary. HEP respectfully requests a 90-day extension (until June 28, 2023) for submittal of the Closure Report to the NMOCD.

Please let me know if you have any questions or need additional information. Please confirm your approval of the 90-day extension by return email

Russell Sebring
Sr. Project Manager

TRC

10 Desta Drive #150E, Midland TX 79705
T: 432.520.7720 | C: 432.250.4465

LinkedIn | Twitter | Blog | www.trcsolutions.com

Gilbert, Bryan

From: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Sent: Wednesday, March 29, 2023 9:20 AM
To: Sebring, Russell
Cc: Melanie Nolan; Leik, Jason; Gilbert, Bryan; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] HEP - Hobbs Station - nAPP2300439852 - Extension Request

Good morning all,

The attachment is a copy of the Notice of Release (NOR). It appears that the Initial C-141 has not been submitted for this incident. Please take care of that ASAP and advise once completed. The extension request will be evaluated after the C-141 submittal is complete.

Thank you,

Mike Bratcher ● Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 | mike.bratcher@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Sebring, Russell <RSebring@trccompanies.com>
Sent: Tuesday, March 28, 2023 2:26 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Melanie Nolan <melanie.nolan@hollyenergy.com>; Leik, Jason <Jason.Leik@HollyEnergy.com>; Gilbert, Bryan <BGilbert@trccompanies.com>
Subject: [EXTERNAL] HEP - Hobbs Station - nAPP2300439852 - Extension Request

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Russell Sebring
Sr. Project Manager

10 Desta Drive #150E, Midland TX 79705
T: 432.520.7720 | C: 432.250.4465

LinkedIn | Twitter | Blog | www.trcsolutions.com

Gilbert, Bryan

From: Nolan, Melanie <Melanie.Nolan@hollyenergy.com>
Sent: Wednesday, March 29, 2023 11:07 AM
To: Bratcher, Michael, EMNRD; Sebring, Russell
Cc: Leik, Jason; Gilbert, Bryan; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] HEP - Hobbs Station - nAPP2300439852 - Extension Request
Attachments: SIGNED INITIAL C-141 HOBBS STATION.pdf

Good Morning Mike,

I have uploaded the Initial C-141 to the Portal. I apologize for any issues this may have caused. I have included a copy of the C-141 just as a courtesy, it has been uploaded to the portal.

Thank you,

Melanie Nolan
Environmental Specialist/EHS Department

Holly Energy Partners
O 575-748-8972
M 214-605-8303
Melanie.Nolan@hollyenergy.com
www.hollyenergy.com

1602 W. Main, Artesia, New Mexico, 88210

HOLLY ENERGY PARTNERS.

From: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Sent: Wednesday, March 29, 2023 8:20 AM
To: Sebring, Russell <RSebring@trccompanies.com>
Cc: Nolan, Melanie <Melanie.Nolan@hollyenergy.com>; Leik, Jason <Jason.Leik@HollyEnergy.com>; Gilbert, Bryan <BGilbert@trccompanies.com>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: [EXTERNAL] HEP - Hobbs Station - nAPP2300439852 - Extension Request

Good morning all,

The attachment is a copy of the Notice of Release (NOR). It appears that the Initial C-141 has not been submitted for this incident. Please take care of that ASAP and advise once completed. The extension request will be evaluated after the C-141 submittal is complete.

Thank you,

Mike Bratcher ● Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 | mike.bratcher@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

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Sent: Tuesday, March 28, 2023 2:26 PM
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Cc: Melanie Nolan <melanie.nolan@hollyenergy.com>; Leik, Jason <Jason.Leik@HollyEnergy.com>; Gilbert, Bryan <BGilbert@trccompanies.com>
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Please let me know if you have any questions or need additional information. Please confirm your approval of the 90-day extension by return email

Russell Sebring
Sr. Project Manager

10 Desta Drive #150E, Midland TX 79705
T: 432.520.7720 | C: 432.250.4465

LinkedIn | Twitter | Blog | www.trcsolutions.com

Gilbert, Bryan

From: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Sent: Wednesday, March 29, 2023 12:54 PM
To: Sebring, Russell
Cc: Melanie Nolan; Leik, Jason; Gilbert, Bryan; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] HEP - Hobbs Station - nAPP2300439852 - Extension Request

All,

The Initial C-141 has been submitted. Thank you Melanie. This request for an extension to June 28, 2023 is approved. Please include this and all correspondence in the remedial and/or closure report.

Thank you,

Mike Bratcher ● Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 | mike.bratcher@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

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Russell Sebring
Sr. Project Manager

10 Desta Drive #150E, Midland TX 79705
T: 432.520.7720 | C: 432.250.4465

LinkedIn | Twitter | Blog | www.trcsolutions.com

Gilbert, Bryan

From: Sebring, Russell
Sent: Tuesday, June 27, 2023 10:08 PM
To: Bratcher, Mike, EMNRD
Cc: Melanie Nolan; Leik, Jason; Gilbert, Bryan
Subject: HEP - Hobbs Station - nAPP2300439852 - Extension Request
Attachments: Hobbs Station Notification NMOCD 1-4-2023.pdf

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Initial excavation of crude oil-affected soils and removal of the pipeline has been completed. Characterization activities were conducted at the site on March 8, 2023; however, due to hard soil conditions (mechanical refusal), vertical delineation of crude oil-affected soil was not completed as preliminary soil sample analytical results indicated that further response action is necessary. On May 11, 2023, a track-mounted excavator was used to conduct additional characterization activities and to establish vertical delineation. Due to equipment limitations (i.e., the maximum depth achieved of 18 feet bgs), vertical delineation of crude oil-affected soil was not achieved. Additional characterization, including vertical delineation of crude oil-affected soil, and response actions are necessary.

HEP respectfully requests a 90-day extension (i.e., until September 26, 2023) for submittal of the Closure Report (or Site Characterization Report and Work Plan) to the NMOCD. Please let me know if you have any questions or need additional information.

Please confirm your approval of the 90-day extension by return email.

Russell Sebring
Sr. Project Manager

TRC

10 Desta Drive #150E, Midland TX 79705
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Gilbert, Bryan

From: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Sent: Thursday, June 29, 2023 8:27 AM
To: Sebring, Russell
Cc: Melanie Nolan; Leik, Jason; Gilbert, Bryan; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] HEP - Hobbs Station - nAPP2300439852 - Extension Request

Russell,

Your request for an extension to September 26, 2023 is approved. Please include this and all correspondence in your reports.

Thank you,

Mike Bratcher ● Incident Supervisor
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave | Artesia, NM 88210
(575) 626-0857 | mike.bratcher@emnrd.nm.gov
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Sent: Tuesday, June 27, 2023 9:08 PM
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Cc: Melanie Nolan <melanie.nolan@hollyenergy.com>; Leik, Jason <Jason.Leik@hollyfrontier.com>; Gilbert, Bryan <BGilbert@trccompanies.com>
Subject: [EXTERNAL] HEP - Hobbs Station - nAPP2300439852 - Extension Request

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Please confirm your approval of the 90-day extension by return email.

Russell Sebring
Sr. Project Manager

TRC

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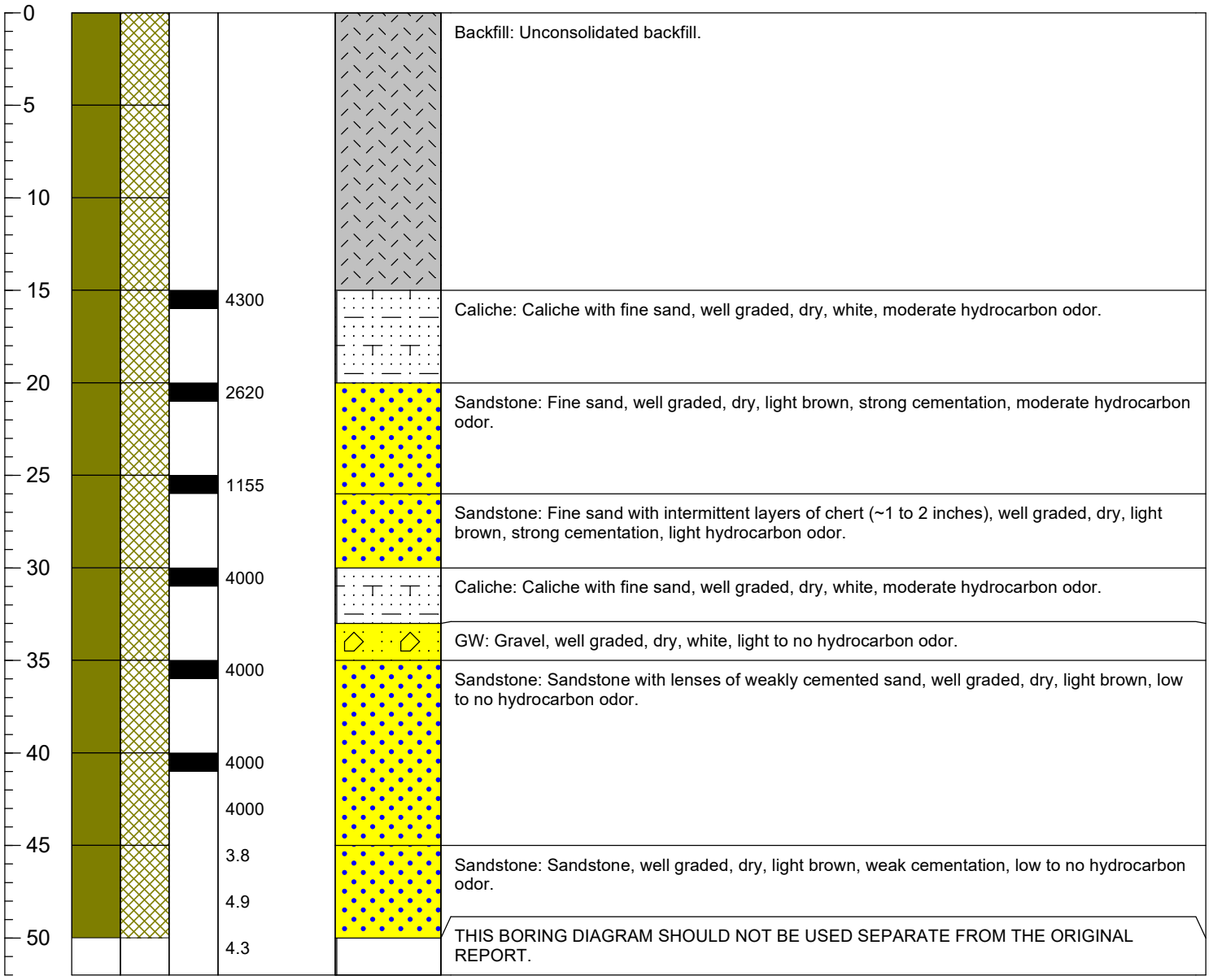
Appendix C: Boring Logs

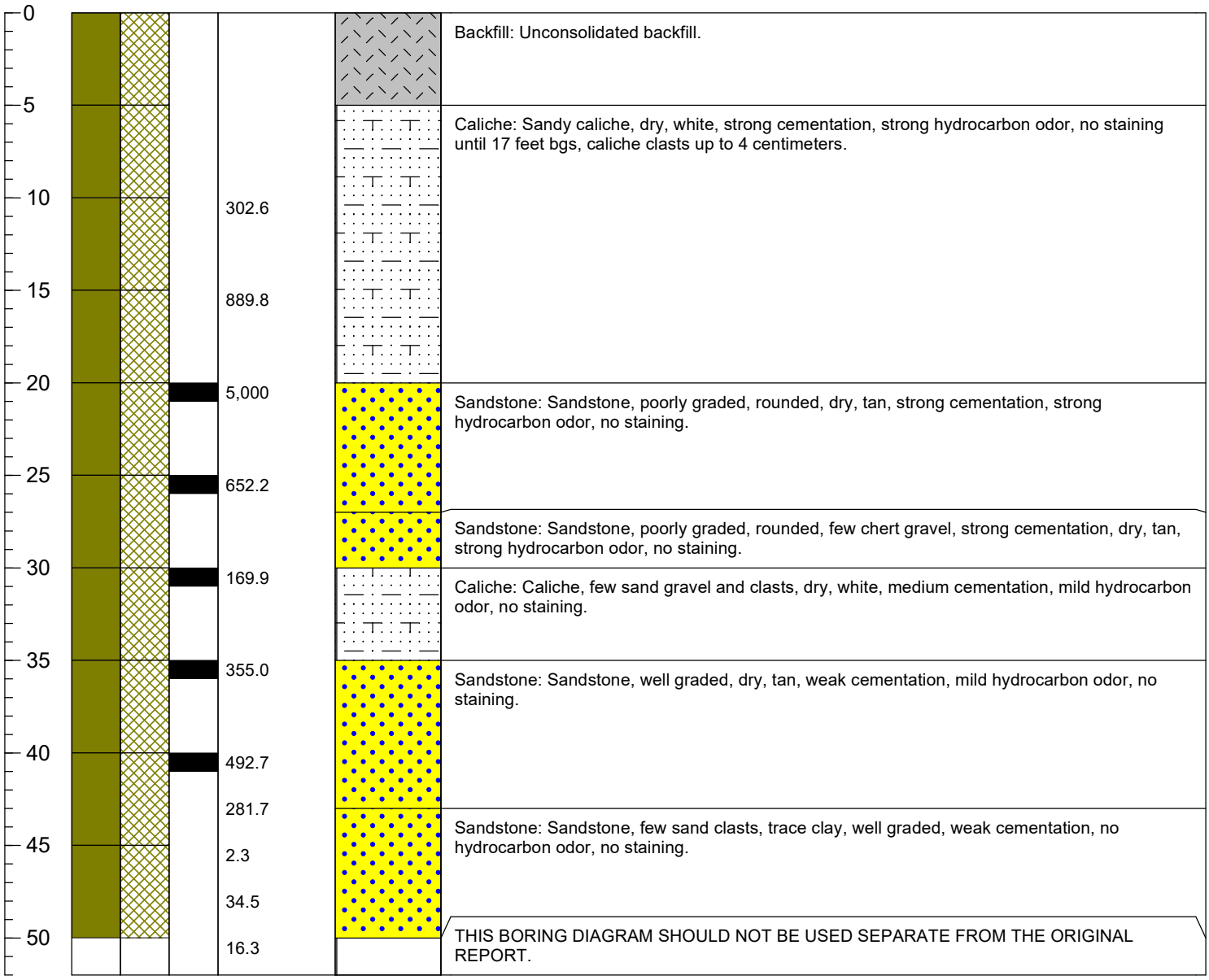
BORING LOG SB-2

Client: Holly Energy Partners - Operating, L.P.	TRC Project #: 528833
Site: Hobbs Station Tank 5202	Start Date: 8/30/2023
Address: 32° 39' 0.14" N 103° 8' 33.56" W	Finish Date: 8/30/2023
Project: Hobbs Station Tank 5202 Soil Investigation	Permit #: Not applicable
Drilling Company: Talon LPE Drilling Crew: TJ Haley	TRC Site Rep.: R. Sebring
Drilling Method: Sonic drilling	TRC Reviewer: B. Gilbert
Boring Diameter (in): 8 Boring Depth (ft bgs): 50	Coord. Sys.: WGS 84
Sampling Method: Hydrated Bentonite Chips	Latitude: 32° 39' 0.19" N
Blow Count Method: Not applicable Grout: Hydrated Bentonite Chip	Longitude: 103° 8' 33.56" W
Field Screening Parameter: Volatile organic compounds	Elevation Datum: Not available
Meter: MiniRAE 2000 Units: ppm	Ground Elevation (ft): Not available



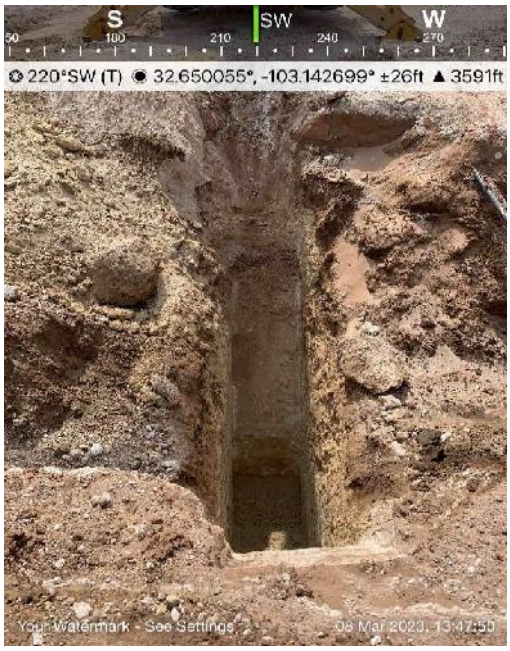
BORING LOG SB-4

Client: Holly Energy Partners - Operating, L.P.		TRC Project #: 528833
Site: Hobbs Station Tank 5202		Start Date: 8/1/2023
Address: 32° 39' 0.14" N 103° 8' 33.56" W		Finish Date: 8/1/2023
Project: Hobbs Station Tank 5202 Soil Investigation		Permit #: Not applicable
Drilling Company: Talon LPE	Drilling Crew: TJ Haley	TRC Site Rep.: J. Stoffel
Drilling Method: Sonic drilling		TRC Reviewer: B. Gilbert
Boring Diameter (in): 8	Boring Depth (ft bgs): 50	Coord. Sys.: WGS 84
Sampling Method: Sonic Casing		Latitude: 32° 39' 0.62" N
Blow Count Method: Not applicable	Grout: Hydrated Bentonite Chips	Longitude: 103° 8' 33.16" W
Field Screening Parameter: Volatile organic compounds		Elevation Datum: Not available
Meter: MiniRAE 2000	Units: ppm	Ground Elevation (ft): Not available



Appendix D: Photographic Documentation

Photograph No. 1 **Date:** **1/18/2023** **Direction:** **Southeast** **Description:** **View of Release Area after Initial Response**	
Photograph No. 2 **Date:** **8/15/2023** **Direction:** **West** **Description:** **View of Release Area after Removal of Dead Leg Pipe**	

Photograph No. 3 **Date:** **3/8/2023** **Direction:** **Southwest** **Description:** **View of Trenching Activities**	
Photograph No. 4 **Date:** **3/8/2023** **Direction:** **Southwest** **Description:** **View of Trenching Activities**	

Photograph No. 5 **Date:** **1/18/2023** **Direction:** **South** **Description:** **View of Excavation**	
Photograph No. 6 **Date:** **3/8/2023** **Direction:** **Northwest** **Description:** **View of Pipeline in Release Area**	

Photograph No. 7 **Date:** **3/8/2023** **Direction:** **Southeast** **Description:** **View of Trenching Activities**	
Photograph No. 8 **Date:** **8/2/2023** **Direction:** **Northwest** **Description:** **View of Soil Stockpile**	

Photograph No. 9 **Date:** **8/1/2023** **Direction:** **West** **Description:** **View of Sonic Drill Rig**	
Photograph No. 10 **Date:** **8/1/2023** **Direction:** **Northwest** **Description:** **View of Boring Activities**	

Photograph No. 11 **Date:** **8/1/2023** **Direction:** **North** **Description:** **View of Boring Sampling Collection**	
Photograph No. 12 **Date:** **3/8/2023** **Direction:** **Northeast** **View of Soil Samples**	

Photograph No. 13 **Date:** **8/16/2023** **Direction:** **North** **Description:** **View of Release Area prior to Backfill**	
Photograph No. 14 **Date:** **8/16/2023** **Direction:** **North** **Description:** **View of Subsurface Electrical near Release Area**	

Photograph No. 15 **Date:** **8/16/2023** **Direction:** **North** **Description:** **View of backfill activities**	
Photograph No. 16 **Date:** **8/16/2023** **Direction:** **North** **Description:** **View of Backfilled Excavation**	

Photograph No. 17 **Date:** **8/2/2023** **Direction:** **Southwest** **Description:** **View of Boring Activities**	
Photograph No. 18 **Date:** **8/2/2023** **Direction:** **Down** **Description:** **View of Boring**	

Photograph No. 19 **Date:** **8/2/2023** **Direction:** **Northwest** **Description:** **View of Boring Measurement**	
Photograph No. 20 **Date:** **8/2/2023** **Direction:** **South** **Description:** **View of Bore Plugging**	

Appendix E: Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Russell Sebring
TRC Solutions, Inc.
10 Desta Drive
Suite #130E
Midland, Texas 79705

Generated 9/13/2023 1:41:28 PM Revision 1

JOB DESCRIPTION

HEP-Hobbs Station-TK5202
SDG NUMBER Hobbs Station

JOB NUMBER

880-25699-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
9/13/2023 1:41:28 PM
Revision 1

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Table of Contents

Definitions/Glossary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Job ID: 880-25699-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-25699-1

REVISION

The report being provided is a revision of the original report sent on 3/21/2023. The report (revision 1) is being revised due to Per client email, requesitng surragotes DL run need to be reported for sample TT-4 @ 10'.

Receipt
The samples were received on 3/9/2023 8:18 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

Receipt Exceptions
The following samples analyzed for method <TPH 8015> were received and analyzed from an unpreserved bulk soil jar

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48205 and analytical batch 880-48323 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48308 and 880-48750 and analytical batch 880-48814 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The CCV was biased low. However due to an acceptable internal standard and an additional acceptable CCV within 12 hours of the last one, it was determined this was a mis-prep. The data was qualified and reported.(CCV 880-48814/95)

Method 8021B: Surrogate recovery for the following samples were outside control limits: TT-1 @ 5' (880-25699-2) and TT-1 @ 6' (880-25699-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48885 and analytical batch 880-48800 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: LCSD biased low for benzene. However, method requires only an LCS to be acceptable; therefore, the data was qualified and reported.(LCSD 880-48885/2-A)

Method 8021B: CCV was biased low for benzene and toluene. However, since another was analyzed and acceptable within the 12 hour window, the data was qualified and reported.(CCV 880-48800/113)

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-48800 recovered above the upper control limit for o-Xylene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-48800/126).

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-48885/1-A), (MB 880-48740/5-A), (880-25766-A-1-H) and (880-25766-A-1-F MS). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-48308/1-A). Evidence of matrix interferences is not obvious.

Case Narrative

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Job ID: 880-25699-1 (Continued)

Laboratory: Eurofins Midland (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-48193 and analytical batch 880-48171 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TT-1 @ 5' (880-25699-2) and TT-1 @ 6' (880-25699-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TT-1 @ 7' (880-25699-4), TT-3 @ 5' (880-25699-14), TT-3 @ 6' (880-25699-15) and TT-3 @ 7' (880-25699-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TT-3 @ 9' (880-25699-18), TT-4 @ 5' (880-25699-22) and TT-4 @ 6' (880-25699-23). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-48200 and analytical batch 880-48173 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TT-4 @ 7' (880-25699-24), TT-4 @ 8' (880-25699-25), TT-4 @ 9' (880-25699-26), TT-4 @ 10' (880-25699-27), TT-4 @ 11' (880-25699-28), TT-4 @ 11.5' (880-25699-29) and TT-4 @ 12' (880-25699-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-48173/58). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48181 and analytical batch 880-48224 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.The associated samples are: TT-4 @ 7' (880-25699-24), (890-4247-A-1-A), (890-4247-A-1-B MS) and (890-4247-A-1-C MSD).

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-48181 and analytical batch 880-48224 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-48183 and analytical batch 880-48264 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-1 @ 5'

Date Collected: 03/08/23 09:05
Date Received: 03/09/23 08:18
Sample Depth: 5'

Lab Sample ID: 880-25699-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**19.8**		1.01		mg/Kg		03/09/23 11:30	03/18/23 18:56	500
Toluene	**55.7**		1.01		mg/Kg		03/09/23 11:30	03/18/23 18:56	500
Ethylbenzene	**23.9**		1.01		mg/Kg		03/09/23 11:30	03/18/23 18:56	500
m-Xylene & p-Xylene	**29.9**		2.02		mg/Kg		03/09/23 11:30	03/18/23 18:56	500
o-Xylene	**12.2**		1.01		mg/Kg		03/09/23 11:30	03/18/23 18:56	500
Xylenes, Total	**42.1**		2.02		mg/Kg		03/09/23 11:30	03/18/23 18:56	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*33*	*S1-*	*70 - 130*	*03/09/23 11:30*	*03/18/23 18:56*	*500*
1,4-Difluorobenzene (Surr)	*29*	*S1-*	*70 - 130*	*03/09/23 11:30*	*03/18/23 18:56*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**142**		2.02		mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**14700**		499		mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**9430**		499		mg/Kg		03/09/23 10:13	03/10/23 01:21	10
Diesel Range Organics (Over C10-C28)	**5220**		499		mg/Kg		03/09/23 10:13	03/10/23 01:21	10
Oil Range Organics (Over C28-C36)	<499	U	499		mg/Kg		03/09/23 10:13	03/10/23 01:21	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*207*	*S1+*	*70 - 130*	*03/09/23 10:13*	*03/10/23 01:21*	*10*
o-Terphenyl	*162*	*S1+*	*70 - 130*	*03/09/23 10:13*	*03/10/23 01:21*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.5**	**F1**	5.01		mg/Kg			03/10/23 09:56	1

Client Sample ID: TT-1 @ 6'

Date Collected: 03/08/23 09:10
Date Received: 03/09/23 08:18
Sample Depth: 6'

Lab Sample ID: 880-25699-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.998	U	0.998		mg/Kg		03/10/23 11:06	03/18/23 19:16	500
Toluene	**106**		0.998		mg/Kg		03/10/23 11:06	03/18/23 19:16	500
Ethylbenzene	**48.6**		0.998		mg/Kg		03/10/23 11:06	03/18/23 19:16	500
m-Xylene & p-Xylene	**61.5**		2.00		mg/Kg		03/10/23 11:06	03/18/23 19:16	500
o-Xylene	**25.2**		0.998		mg/Kg		03/10/23 11:06	03/18/23 19:16	500
Xylenes, Total	**86.7**		2.00		mg/Kg		03/10/23 11:06	03/18/23 19:16	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*03/10/23 11:06*	*03/18/23 19:16*	*500*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-1 @ 6'

Lab Sample ID: 880-25699-3
Matrix: Solid
Date Collected: 03/08/23 09:10
Date Received: 03/09/23 08:18
Sample Depth: 6'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*5*	*S1-*	*70 - 130*	*03/10/23 11:06*	*03/18/23 19:16*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**241**		2.00	mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**11600**		250	mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**6850**		250	mg/Kg		03/09/23 10:13	03/10/23 01:43	5
Diesel Range Organics (Over C10-C28)	**4700**		250	mg/Kg		03/09/23 10:13	03/10/23 01:43	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		03/09/23 10:13	03/10/23 01:43	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*174*	*S1+*	*70 - 130*	*03/09/23 10:13*	*03/10/23 01:43*	*5*
o-Terphenyl	*121*		*70 - 130*	*03/09/23 10:13*	*03/10/23 01:43*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.1**		5.00	mg/Kg			03/10/23 10:15	1

Client Sample ID: TT-1 @ 7'

Lab Sample ID: 880-25699-4
Matrix: Solid
Date Collected: 03/08/23 09:15
Date Received: 03/09/23 08:18
Sample Depth: 7'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**45.9**		0.990	mg/Kg		03/10/23 11:06	03/18/23 19:36	500
Toluene	**150**		0.990	mg/Kg		03/10/23 11:06	03/18/23 19:36	500
Ethylbenzene	**71.9**		0.990	mg/Kg		03/10/23 11:06	03/18/23 19:36	500
m-Xylene & p-Xylene	**88.4**		1.98	mg/Kg		03/10/23 11:06	03/18/23 19:36	500
o-Xylene	**35.5**		0.990	mg/Kg		03/10/23 11:06	03/18/23 19:36	500
Xylenes, Total	**124**		1.98	mg/Kg		03/10/23 11:06	03/18/23 19:36	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/10/23 11:06*	*03/18/23 19:36*	*500*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/10/23 11:06*	*03/18/23 19:36*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**392**		1.98	mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**10800**		250	mg/Kg			03/10/23 18:01	1

Eurofins Midland

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-1 @ 7'

Lab Sample ID: 880-25699-4
Matrix: Solid
Date Collected: 03/08/23 09:15
Date Received: 03/09/23 08:18
Sample Depth: 7'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7550		250		mg/Kg		03/09/23 10:13	03/10/23 02:26	5
Diesel Range Organics (Over C10-C28)	3240		250		mg/Kg		03/09/23 10:13	03/10/23 02:26	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		03/09/23 10:13	03/10/23 02:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*03/09/23 10:13*	*03/10/23 02:26*	*5*
o-Terphenyl	*118*		*70 - 130*	*03/09/23 10:13*	*03/10/23 02:26*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.0		4.99		mg/Kg			03/10/23 10:21	1

Client Sample ID: TT-1 @ 8'

Lab Sample ID: 880-25699-5
Matrix: Solid
Date Collected: 03/08/23 09:20
Date Received: 03/09/23 08:18
Sample Depth: 8'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00206		0.00200		mg/Kg		03/09/23 11:30	03/11/23 05:34	1
Toluene	0.00244		0.00200		mg/Kg		03/09/23 11:30	03/11/23 05:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 11:30	03/11/23 05:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/09/23 11:30	03/11/23 05:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 11:30	03/11/23 05:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/09/23 11:30	03/11/23 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*03/09/23 11:30*	*03/11/23 05:34*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*03/09/23 11:30*	*03/11/23 05:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00450		0.00399		mg/Kg			03/13/23 18:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/09/23 10:13	03/09/23 22:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/23 10:13	03/09/23 22:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/23 10:13	03/09/23 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*03/09/23 10:13*	*03/09/23 22:52*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/09/23 10:13*	*03/09/23 22:52*	*1*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-1 @ 8'

Lab Sample ID: 880-25699-5
Matrix: Solid
Date Collected: 03/08/23 09:20
Date Received: 03/09/23 08:18
Sample Depth: 8'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.6		4.95		mg/Kg			03/10/23 10:27	1

Client Sample ID: TT-1 @ 9'

Lab Sample ID: 880-25699-6
Matrix: Solid
Date Collected: 03/08/23 09:30
Date Received: 03/09/23 08:18
Sample Depth: 9'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6.82		0.199		mg/Kg		03/09/23 11:30	03/11/23 07:37	100
Toluene	23.9		0.199		mg/Kg		03/09/23 11:30	03/11/23 07:37	100
Ethylbenzene	12.5		0.199		mg/Kg		03/09/23 11:30	03/11/23 07:37	100
m-Xylene & p-Xylene	15.5		0.398		mg/Kg		03/09/23 11:30	03/11/23 07:37	100
o-Xylene	5.99		0.199		mg/Kg		03/09/23 11:30	03/11/23 07:37	100
Xylenes, Total	21.5		0.398		mg/Kg		03/09/23 11:30	03/11/23 07:37	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*03/09/23 11:30*	*03/11/23 07:37*	*100*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/09/23 11:30*	*03/11/23 07:37*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	64.7		0.398		mg/Kg			03/13/23 18:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	898		49.9		mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	430		49.9		mg/Kg		03/09/23 10:13	03/10/23 00:17	1
Diesel Range Organics (Over C10-C28)	468		49.9		mg/Kg		03/09/23 10:13	03/10/23 00:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/09/23 10:13	03/10/23 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*03/09/23 10:13*	*03/10/23 00:17*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/09/23 10:13*	*03/10/23 00:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.9		5.00		mg/Kg			03/10/23 10:33	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-1 @ 10'

Lab Sample ID: 880-25699-7
Matrix: Solid
Date Collected: 03/08/23 09:40
Date Received: 03/09/23 08:18
Sample Depth: 10'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.543**		0.199		mg/Kg		03/09/23 11:30	03/11/23 07:57	100
Toluene	**5.25**		0.199		mg/Kg		03/09/23 11:30	03/11/23 07:57	100
Ethylbenzene	**5.20**		0.199		mg/Kg		03/09/23 11:30	03/11/23 07:57	100
m-Xylene & p-Xylene	**5.96**		0.398		mg/Kg		03/09/23 11:30	03/11/23 07:57	100
o-Xylene	**2.57**		0.199		mg/Kg		03/09/23 11:30	03/11/23 07:57	100
Xylenes, Total	**8.53**		0.398		mg/Kg		03/09/23 11:30	03/11/23 07:57	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*03/09/23 11:30*	*03/11/23 07:57*	*100*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*03/09/23 11:30*	*03/11/23 07:57*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**19.5**		0.398		mg/Kg			03/13/23 18:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1460**		49.9		mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**730**		49.9		mg/Kg		03/09/23 10:13	03/10/23 00:38	1
Diesel Range Organics (Over C10-C28)	**726**		49.9		mg/Kg		03/09/23 10:13	03/10/23 00:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/09/23 10:13	03/10/23 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*03/09/23 10:13*	*03/10/23 00:38*	*1*
o-Terphenyl	*104*		*70 - 130*	*03/09/23 10:13*	*03/10/23 00:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.1**		5.00		mg/Kg			03/10/23 10:52	1

Client Sample ID: TT-1 @ 10.5'

Lab Sample ID: 880-25699-8
Matrix: Solid
Date Collected: 03/08/23 09:50
Date Received: 03/09/23 08:18
Sample Depth: 10.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.199	U	0.199		mg/Kg		03/09/23 11:30	03/11/23 08:18	100
Toluene	**1.27**		0.199		mg/Kg		03/09/23 11:30	03/11/23 08:18	100
Ethylbenzene	**1.04**		0.199		mg/Kg		03/09/23 11:30	03/11/23 08:18	100
m-Xylene & p-Xylene	**1.31**		0.398		mg/Kg		03/09/23 11:30	03/11/23 08:18	100
o-Xylene	**0.592**		0.199		mg/Kg		03/09/23 11:30	03/11/23 08:18	100
Xylenes, Total	**1.90**		0.398		mg/Kg		03/09/23 11:30	03/11/23 08:18	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*03/09/23 11:30*	*03/11/23 08:18*	*100*

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Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-1 @ 10.5'

Lab Sample ID: 880-25699-8
Matrix: Solid
Date Collected: 03/08/23 09:50
Date Received: 03/09/23 08:18
Sample Depth: 10.5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/09/23 11:30*	*03/11/23 08:18*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**4.21**		0.398	mg/Kg			03/13/23 18:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**101**		50.0	mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/09/23 10:13	03/09/23 23:13	1
Diesel Range Organics (Over C10-C28)	**101**		50.0	mg/Kg		03/09/23 10:13	03/09/23 23:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/09/23 10:13	03/09/23 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*86*		*70 - 130*	*03/09/23 10:13*	*03/09/23 23:13*	*1*
o-Terphenyl	*91*		*70 - 130*	*03/09/23 10:13*	*03/09/23 23:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.3**		4.96	mg/Kg			03/10/23 10:58	1

Client Sample ID: TT-1 @ 11'

Lab Sample ID: 880-25699-9
Matrix: Solid
Date Collected: 03/08/23 10:00
Date Received: 03/09/23 08:18
Sample Depth: 11'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/09/23 11:30	03/11/23 05:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/09/23 11:30	03/11/23 05:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/09/23 11:30	03/11/23 05:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/09/23 11:30	03/11/23 05:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/09/23 11:30	03/11/23 05:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/09/23 11:30	03/11/23 05:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*03/09/23 11:30*	*03/11/23 05:55*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/09/23 11:30*	*03/11/23 05:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/13/23 18:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/10/23 18:01	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-1 @ 11'

Lab Sample ID: 880-25699-9
Matrix: Solid
Date Collected: 03/08/23 10:00
Date Received: 03/09/23 08:18
Sample Depth: 11'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/09/23 10:13	03/09/23 23:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/09/23 10:13	03/09/23 23:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/09/23 10:13	03/09/23 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*03/09/23 10:13*	*03/09/23 23:34*	*1*
o-Terphenyl	*110*		*70 - 130*	*03/09/23 10:13*	*03/09/23 23:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.5**		4.97		mg/Kg			03/10/23 11:04	1

Client Sample ID: TT-1 @ 11.5'

Lab Sample ID: 880-25699-10
Matrix: Solid
Date Collected: 03/08/23 10:10
Date Received: 03/09/23 08:18
Sample Depth: 11.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/09/23 11:30	03/11/23 06:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/09/23 11:30	03/11/23 06:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/09/23 11:30	03/11/23 06:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/09/23 11:30	03/11/23 06:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/09/23 11:30	03/11/23 06:15	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/09/23 11:30	03/11/23 06:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*03/09/23 11:30*	*03/11/23 06:15*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/09/23 11:30*	*03/11/23 06:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/13/23 18:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/09/23 10:13	03/09/23 21:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/09/23 10:13	03/09/23 21:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/09/23 10:13	03/09/23 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*03/09/23 10:13*	*03/09/23 21:47*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/09/23 10:13*	*03/09/23 21:47*	*1*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-1 @ 11.5'

Lab Sample ID: 880-25699-10
Matrix: Solid
Date Collected: 03/08/23 10:10
Date Received: 03/09/23 08:18
Sample Depth: 11.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.4		5.00		mg/Kg			03/10/23 11:10	1

Client Sample ID: TT-2 @ 5'

Lab Sample ID: 880-25699-12
Matrix: Solid
Date Collected: 03/08/23 10:45
Date Received: 03/09/23 08:18
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.42		0.199		mg/Kg		03/09/23 11:30	03/11/23 10:08	100
Toluene	26.4		0.199		mg/Kg		03/09/23 11:30	03/11/23 10:08	100
Ethylbenzene	24.2		0.199		mg/Kg		03/09/23 11:30	03/11/23 10:08	100
m-Xylene & p-Xylene	25.9		0.398		mg/Kg		03/09/23 11:30	03/11/23 10:08	100
o-Xylene	11.1		0.199		mg/Kg		03/09/23 11:30	03/11/23 10:08	100
Xylenes, Total	37.0		0.398		mg/Kg		03/09/23 11:30	03/11/23 10:08	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/09/23 11:30*	*03/11/23 10:08*	*100*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/09/23 11:30*	*03/11/23 10:08*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	91.0		0.398		mg/Kg			03/13/23 18:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3060		50.0		mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1510		50.0		mg/Kg		03/09/23 10:13	03/09/23 23:56	1
Diesel Range Organics (Over C10-C28)	1550		50.0		mg/Kg		03/09/23 10:13	03/09/23 23:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/23 10:13	03/09/23 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*03/09/23 10:13*	*03/09/23 23:56*	*1*
o-Terphenyl	*114*		*70 - 130*	*03/09/23 10:13*	*03/09/23 23:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.4		4.99		mg/Kg			03/10/23 11:16	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-3 @ 4'

Lab Sample ID: 880-25699-13
Matrix: Solid
Date Collected: 03/08/23 11:05
Date Received: 03/09/23 08:18
Sample Depth: 4'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	24.9		1.01		mg/Kg		03/10/23 11:06	03/18/23 19:57	500
Toluene	124		1.01		mg/Kg		03/10/23 11:06	03/18/23 19:57	500
Ethylbenzene	72.7		1.01		mg/Kg		03/10/23 11:06	03/18/23 19:57	500
m-Xylene & p-Xylene	88.8		2.01		mg/Kg		03/10/23 11:06	03/18/23 19:57	500
o-Xylene	37.4		1.01		mg/Kg		03/10/23 11:06	03/18/23 19:57	500
Xylenes, Total	126		2.01		mg/Kg		03/10/23 11:06	03/18/23 19:57	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*03/10/23 11:06*	*03/18/23 19:57*	*500*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*03/10/23 11:06*	*03/18/23 19:57*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	348		2.01		mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8670		250		mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	4950		250		mg/Kg		03/09/23 10:13	03/10/23 02:47	5
Diesel Range Organics (Over C10-C28)	3720		250		mg/Kg		03/09/23 10:13	03/10/23 02:47	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		03/09/23 10:13	03/10/23 02:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*03/09/23 10:13*	*03/10/23 02:47*	*5*
o-Terphenyl	*114*		*70 - 130*	*03/09/23 10:13*	*03/10/23 02:47*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.2	F1	4.95		mg/Kg			03/10/23 11:23	1

Client Sample ID: TT-3 @ 5'

Lab Sample ID: 880-25699-14
Matrix: Solid
Date Collected: 03/08/23 11:10
Date Received: 03/09/23 08:18
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	57.4		1.01		mg/Kg		03/10/23 11:06	03/18/23 20:17	500
Toluene	184		1.01		mg/Kg		03/10/23 11:06	03/18/23 20:17	500
Ethylbenzene	90.3		1.01		mg/Kg		03/10/23 11:06	03/18/23 20:17	500
m-Xylene & p-Xylene	110		2.02		mg/Kg		03/10/23 11:06	03/18/23 20:17	500
o-Xylene	45.5		1.01		mg/Kg		03/10/23 11:06	03/18/23 20:17	500
Xylenes, Total	156		2.02		mg/Kg		03/10/23 11:06	03/18/23 20:17	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/10/23 11:06*	*03/18/23 20:17*	*500*

Eurofins Midland

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-3 @ 5'

Lab Sample ID: 880-25699-14
Matrix: Solid
Date Collected: 03/08/23 11:10
Date Received: 03/09/23 08:18
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/10/23 11:06*	*03/18/23 20:17*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**487**		2.02	mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**12400**		250	mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**7850**		250	mg/Kg		03/09/23 10:13	03/10/23 03:09	5
Diesel Range Organics (Over C10-C28)	**4570**		250	mg/Kg		03/09/23 10:13	03/10/23 03:09	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		03/09/23 10:13	03/10/23 03:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*158*	*S1+*	*70 - 130*	*03/09/23 10:13*	*03/10/23 03:09*	*5*
o-Terphenyl	*104*		*70 - 130*	*03/09/23 10:13*	*03/10/23 03:09*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.0**		5.00	mg/Kg			03/10/23 11:41	1

Client Sample ID: TT-3 @ 6'

Lab Sample ID: 880-25699-15
Matrix: Solid
Date Collected: 03/08/23 11:15
Date Received: 03/09/23 08:18
Sample Depth: 6'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**58.2**		0.996	mg/Kg		03/10/23 11:06	03/18/23 20:38	500
Toluene	**194**		0.996	mg/Kg		03/10/23 11:06	03/18/23 20:38	500
Ethylbenzene	**95.5**		0.996	mg/Kg		03/10/23 11:06	03/18/23 20:38	500
m-Xylene & p-Xylene	**111**		1.99	mg/Kg		03/10/23 11:06	03/18/23 20:38	500
o-Xylene	**43.5**		0.996	mg/Kg		03/10/23 11:06	03/18/23 20:38	500
Xylenes, Total	**155**		1.99	mg/Kg		03/10/23 11:06	03/18/23 20:38	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*03/10/23 11:06*	*03/18/23 20:38*	*500*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*03/10/23 11:06*	*03/18/23 20:38*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**502**		1.99	mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**15000**		499	mg/Kg			03/10/23 18:01	1

Eurofins Midland

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-3 @ 6'

Lab Sample ID: 880-25699-15
Matrix: Solid
Date Collected: 03/08/23 11:15
Date Received: 03/09/23 08:18
Sample Depth: 6'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	9360		499	mg/Kg		03/09/23 10:13	03/10/23 03:30	10
Diesel Range Organics (Over C10-C28)	5670		499	mg/Kg		03/09/23 10:13	03/10/23 03:30	10
Oil Range Organics (Over C28-C36)	<499	U	499	mg/Kg		03/09/23 10:13	03/10/23 03:30	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*207*	*S1+*	*70 - 130*	*03/09/23 10:13*	*03/10/23 03:30*	*10*
o-Terphenyl	*174*	*S1+*	*70 - 130*	*03/09/23 10:13*	*03/10/23 03:30*	*10*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.2		4.98	mg/Kg			03/10/23 11:47	1

Client Sample ID: TT-3 @ 7'

Lab Sample ID: 880-25699-16
Matrix: Solid
Date Collected: 03/08/23 11:25
Date Received: 03/09/23 08:18
Sample Depth: 7'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	40.7		0.994	mg/Kg		03/10/23 11:06	03/18/23 20:58	500
Toluene	18.2		0.994	mg/Kg		03/10/23 11:06	03/18/23 20:58	500
Ethylbenzene	84.8		0.994	mg/Kg		03/10/23 11:06	03/18/23 20:58	500
m-Xylene & p-Xylene	96.2		1.99	mg/Kg		03/10/23 11:06	03/18/23 20:58	500
o-Xylene	36.3		0.994	mg/Kg		03/10/23 11:06	03/18/23 20:58	500
Xylenes, Total	133		1.99	mg/Kg		03/10/23 11:06	03/18/23 20:58	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/10/23 11:06*	*03/18/23 20:58*	*500*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*03/10/23 11:06*	*03/18/23 20:58*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	276		1.99	mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	12900		499	mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7920		499	mg/Kg		03/09/23 10:13	03/10/23 03:52	10
Diesel Range Organics (Over C10-C28)	4970		499	mg/Kg		03/09/23 10:13	03/10/23 03:52	10
Oil Range Organics (Over C28-C36)	<499	U	499	mg/Kg		03/09/23 10:13	03/10/23 03:52	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*177*	*S1+*	*70 - 130*	*03/09/23 10:13*	*03/10/23 03:52*	*10*
o-Terphenyl	*116*		*70 - 130*	*03/09/23 10:13*	*03/10/23 03:52*	*10*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-3 @ 7'

Lab Sample ID: 880-25699-16
Matrix: Solid
Date Collected: 03/08/23 11:25
Date Received: 03/09/23 08:18
Sample Depth: 7'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.3		4.97		mg/Kg			03/10/23 12:06	1

Client Sample ID: TT-3 @ 8'

Lab Sample ID: 880-25699-17
Matrix: Solid
Date Collected: 03/08/23 11:35
Date Received: 03/09/23 08:18
Sample Depth: 8'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	43.4		0.998		mg/Kg		03/10/23 11:06	03/18/23 21:19	500
Toluene	179		0.998		mg/Kg		03/10/23 11:06	03/18/23 21:19	500
Ethylbenzene	95.0		0.998		mg/Kg		03/10/23 11:06	03/18/23 21:19	500
m-Xylene & p-Xylene	108		2.00		mg/Kg		03/10/23 11:06	03/18/23 21:19	500
o-Xylene	45.3		0.998		mg/Kg		03/10/23 11:06	03/18/23 21:19	500
Xylenes, Total	153		2.00		mg/Kg		03/10/23 11:06	03/18/23 21:19	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*03/10/23 11:06*	*03/18/23 21:19*	*500*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*	*03/10/23 11:06*	*03/18/23 21:19*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	471		2.00		mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9390		249		mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	5820		249		mg/Kg		03/09/23 10:13	03/10/23 04:14	5
Diesel Range Organics (Over C10-C28)	3570		249		mg/Kg		03/09/23 10:13	03/10/23 04:14	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		03/09/23 10:13	03/10/23 04:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/09/23 10:13*	*03/10/23 04:14*	*5*
o-Terphenyl	*115*		*70 - 130*	*03/09/23 10:13*	*03/10/23 04:14*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.4		4.96		mg/Kg			03/10/23 12:12	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-3 @ 9'

Lab Sample ID: 880-25699-18
Matrix: Solid
Date Collected: 03/08/23 11:45
Date Received: 03/09/23 08:18
Sample Depth: 9'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	54.3		1.00		mg/Kg		03/10/23 11:06	03/18/23 21:39	500
Toluene	176		1.00		mg/Kg		03/10/23 11:06	03/18/23 21:39	500
Ethylbenzene	98.8		1.00		mg/Kg		03/10/23 11:06	03/18/23 21:39	500
m-Xylene & p-Xylene	105		2.00		mg/Kg		03/10/23 11:06	03/18/23 21:39	500
o-Xylene	39.9		1.00		mg/Kg		03/10/23 11:06	03/18/23 21:39	500
Xylenes, Total	145		2.00		mg/Kg		03/10/23 11:06	03/18/23 21:39	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/10/23 11:06*	*03/18/23 21:39*	*500*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*03/10/23 11:06*	*03/18/23 21:39*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	474		2.00		mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	12700		250		mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7820		250		mg/Kg		03/09/23 10:13	03/10/23 04:36	5
Diesel Range Organics (Over C10-C28)	4890		250		mg/Kg		03/09/23 10:13	03/10/23 04:36	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		03/09/23 10:13	03/10/23 04:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*03/09/23 10:13*	*03/10/23 04:36*	*5*
o-Terphenyl	*116*		*70 - 130*	*03/09/23 10:13*	*03/10/23 04:36*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.7		5.04		mg/Kg			03/10/23 12:18	1

Client Sample ID: TT-3 @ 10'

Lab Sample ID: 880-25699-19
Matrix: Solid
Date Collected: 03/08/23 11:55
Date Received: 03/09/23 08:18
Sample Depth: 10'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	18.7		1.01		mg/Kg		03/14/23 14:47	03/19/23 07:52	500
Toluene	80.2		1.01		mg/Kg		03/14/23 14:47	03/19/23 07:52	500
Ethylbenzene	49.0		1.01		mg/Kg		03/14/23 14:47	03/19/23 07:52	500
m-Xylene & p-Xylene	51.1		2.02		mg/Kg		03/14/23 14:47	03/19/23 07:52	500
o-Xylene	21.0		1.01		mg/Kg		03/14/23 14:47	03/19/23 07:52	500
Xylenes, Total	72.1		2.02		mg/Kg		03/14/23 14:47	03/19/23 07:52	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/14/23 14:47*	*03/19/23 07:52*	*500*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-3 @ 10'

Lab Sample ID: 880-25699-19
Matrix: Solid
Date Collected: 03/08/23 11:55
Date Received: 03/09/23 08:18
Sample Depth: 10'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/14/23 14:47*	*03/19/23 07:52*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**220**		2.02	mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**7630**		250	mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**4450**		250	mg/Kg		03/09/23 10:13	03/10/23 04:57	5
Diesel Range Organics (Over C10-C28)	**3180**		250	mg/Kg		03/09/23 10:13	03/10/23 04:57	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		03/09/23 10:13	03/10/23 04:57	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*105*		*70 - 130*	*03/09/23 10:13*	*03/10/23 04:57*	*5*
o-Terphenyl	*117*		*70 - 130*	*03/09/23 10:13*	*03/10/23 04:57*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.6**		4.98	mg/Kg			03/10/23 12:24	1

Client Sample ID: TT-3 @ 10.5'

Lab Sample ID: 880-25699-20
Matrix: Solid
Date Collected: 03/08/23 12:10
Date Received: 03/09/23 08:18
Sample Depth: 10.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.66**		0.201	mg/Kg		03/09/23 11:30	03/11/23 12:52	100
Toluene	**14.2**		0.201	mg/Kg		03/09/23 11:30	03/11/23 12:52	100
Ethylbenzene	**9.44**		0.201	mg/Kg		03/09/23 11:30	03/11/23 12:52	100
m-Xylene & p-Xylene	**10.0**		0.402	mg/Kg		03/09/23 11:30	03/11/23 12:52	100
o-Xylene	**3.76**		0.201	mg/Kg		03/09/23 11:30	03/11/23 12:52	100
Xylenes, Total	**13.8**		0.402	mg/Kg		03/09/23 11:30	03/11/23 12:52	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/09/23 11:30*	*03/11/23 12:52*	*100*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/09/23 11:30*	*03/11/23 12:52*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**41.1**		0.402	mg/Kg			03/13/23 18:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**310**		49.9	mg/Kg			03/10/23 18:01	1

Eurofins Midland

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-3 @ 10.5'

Lab Sample ID: 880-25699-20
Matrix: Solid
Date Collected: 03/08/23 12:10
Date Received: 03/09/23 08:18
Sample Depth: 10.5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	123		49.9	mg/Kg		03/09/23 10:13	03/10/23 01:00	1
Diesel Range Organics (Over C10-C28)	187		49.9	mg/Kg		03/09/23 10:13	03/10/23 01:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/09/23 10:13	03/10/23 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/09/23 10:13*	*03/10/23 01:00*	*1*
o-Terphenyl	*104*		*70 - 130*	*03/09/23 10:13*	*03/10/23 01:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.4		4.95	mg/Kg			03/10/23 12:30	1

Client Sample ID: TT-4 @ 5'

Lab Sample ID: 880-25699-22
Matrix: Solid
Date Collected: 03/08/23 13:35
Date Received: 03/09/23 08:18
Sample Depth: 5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	43.2		0.996	mg/Kg		03/14/23 14:47	03/19/23 08:13	500
Toluene	133		0.996	mg/Kg		03/14/23 14:47	03/19/23 08:13	500
Ethylbenzene	55.1		0.996	mg/Kg		03/14/23 14:47	03/19/23 08:13	500
m-Xylene & p-Xylene	66.9		1.99	mg/Kg		03/14/23 14:47	03/19/23 08:13	500
o-Xylene	26.8		0.996	mg/Kg		03/14/23 14:47	03/19/23 08:13	500
Xylenes, Total	93.7		1.99	mg/Kg		03/14/23 14:47	03/19/23 08:13	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*03/14/23 14:47*	*03/19/23 08:13*	*500*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*03/14/23 14:47*	*03/19/23 08:13*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	325		1.99	mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	12100		250	mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	8200		250	mg/Kg		03/09/23 10:13	03/10/23 05:18	5
Diesel Range Organics (Over C10-C28)	3870		250	mg/Kg		03/09/23 10:13	03/10/23 05:18	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		03/09/23 10:13	03/10/23 05:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*03/09/23 10:13*	*03/10/23 05:18*	*5*
o-Terphenyl	*111*		*70 - 130*	*03/09/23 10:13*	*03/10/23 05:18*	*5*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-4 @ 5'

Lab Sample ID: 880-25699-22
Matrix: Solid
Date Collected: 03/08/23 13:35
Date Received: 03/09/23 08:18
Sample Depth: 5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.2		4.97		mg/Kg			03/10/23 12:37	1

Client Sample ID: TT-4 @ 6'

Lab Sample ID: 880-25699-23
Matrix: Solid
Date Collected: 03/08/23 13:40
Date Received: 03/09/23 08:18
Sample Depth: 6'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	24.2		0.994		mg/Kg		03/14/23 14:47	03/19/23 08:33	500
Toluene	85.6		0.994		mg/Kg		03/14/23 14:47	03/19/23 08:33	500
Ethylbenzene	39.9		0.994		mg/Kg		03/14/23 14:47	03/19/23 08:33	500
m-Xylene & p-Xylene	49.2		1.99		mg/Kg		03/14/23 14:47	03/19/23 08:33	500
o-Xylene	20.5		0.994		mg/Kg		03/14/23 14:47	03/19/23 08:33	500
Xylenes, Total	69.7		1.99		mg/Kg		03/14/23 14:47	03/19/23 08:33	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/14/23 14:47*	*03/19/23 08:33*	*500*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/14/23 14:47*	*03/19/23 08:33*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	219		1.99		mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	12600		250		mg/Kg			03/10/23 18:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	8840		250		mg/Kg		03/09/23 10:13	03/10/23 05:40	5
Diesel Range Organics (Over C10-C28)	3740		250		mg/Kg		03/09/23 10:13	03/10/23 05:40	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		03/09/23 10:13	03/10/23 05:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*03/09/23 10:13*	*03/10/23 05:40*	*5*
o-Terphenyl	*110*		*70 - 130*	*03/09/23 10:13*	*03/10/23 05:40*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.4		4.97		mg/Kg			03/10/23 12:43	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-4 @ 7'

Lab Sample ID: 880-25699-24
Matrix: Solid
Date Collected: 03/08/23 13:45
Date Received: 03/09/23 08:18
Sample Depth: 7'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10.6		0.200		mg/Kg		03/09/23 15:49	03/20/23 10:20	100
Toluene	38.8		0.200		mg/Kg		03/09/23 15:49	03/20/23 10:20	100
Ethylbenzene	16.5		0.200		mg/Kg		03/09/23 15:49	03/20/23 10:20	100
m-Xylene & p-Xylene	22.6		0.401		mg/Kg		03/09/23 15:49	03/20/23 10:20	100
o-Xylene	9.93		0.200		mg/Kg		03/09/23 15:49	03/20/23 10:20	100
Xylenes, Total	32.5		0.401		mg/Kg		03/09/23 15:49	03/20/23 10:20	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/09/23 15:49*	*03/20/23 10:20*	*100*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/09/23 15:49*	*03/20/23 10:20*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	98.4		0.401		mg/Kg			03/20/23 12:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1870		49.9		mg/Kg			03/10/23 18:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	837		49.9		mg/Kg		03/09/23 10:49	03/10/23 03:30	1
Diesel Range Organics (Over C10-C28)	923		49.9		mg/Kg		03/09/23 10:49	03/10/23 03:30	1
Oil Range Organics (Over C28-C36)	109		49.9		mg/Kg		03/09/23 10:49	03/10/23 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*26*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 03:30*	*1*
o-Terphenyl	*23*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 03:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		4.95		mg/Kg			03/09/23 14:40	1

Client Sample ID: TT-4 @ 8'

Lab Sample ID: 880-25699-25
Matrix: Solid
Date Collected: 03/08/23 13:55
Date Received: 03/09/23 08:18
Sample Depth: 8'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.43		0.201		mg/Kg		03/09/23 15:49	03/20/23 10:41	100
Toluene	7.87		0.201		mg/Kg		03/09/23 15:49	03/20/23 10:41	100
Ethylbenzene	4.86		0.201		mg/Kg		03/09/23 15:49	03/20/23 10:41	100
m-Xylene & p-Xylene	7.33		0.402		mg/Kg		03/09/23 15:49	03/20/23 10:41	100
o-Xylene	12.5		0.201		mg/Kg		03/09/23 15:49	03/20/23 10:41	100
Xylenes, Total	19.8		0.402		mg/Kg		03/09/23 15:49	03/20/23 10:41	100

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-4 @ 8'

Lab Sample ID: 880-25699-25
Matrix: Solid
Date Collected: 03/08/23 13:55
Date Received: 03/09/23 08:18
Sample Depth: 8'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	03/09/23 15:49	03/20/23 10:41	100
1,4-Difluorobenzene (Surr)	106		70 - 130	03/09/23 15:49	03/20/23 10:41	100

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	34.0		0.402	mg/Kg			03/20/23 12:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1640		49.9	mg/Kg			03/10/23 18:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	729		49.9	mg/Kg		03/09/23 10:49	03/10/23 03:52	1
Diesel Range Organics (Over C10-C28)	812		49.9	mg/Kg		03/09/23 10:49	03/10/23 03:52	1
Oil Range Organics (Over C28-C36)	98.0		49.9	mg/Kg		03/09/23 10:49	03/10/23 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	28	S1-	70 - 130	03/09/23 10:49	03/10/23 03:52	1
o-Terphenyl	26	S1-	70 - 130	03/09/23 10:49	03/10/23 03:52	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.5		4.97	mg/Kg			03/09/23 16:18	1

Client Sample ID: TT-4 @ 9'

Lab Sample ID: 880-25699-26
Matrix: Solid
Date Collected: 03/08/23 14:05
Date Received: 03/09/23 08:18
Sample Depth: 9'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.07		0.198	mg/Kg		03/09/23 15:49	03/20/23 11:01	100
Toluene	15.7		0.198	mg/Kg		03/09/23 15:49	03/20/23 11:01	100
Ethylbenzene	6.36		0.198	mg/Kg		03/09/23 15:49	03/20/23 11:01	100
m-Xylene & p-Xylene	8.67		0.396	mg/Kg		03/09/23 15:49	03/20/23 11:01	100
o-Xylene	4.00		0.198	mg/Kg		03/09/23 15:49	03/20/23 11:01	100
Xylenes, Total	12.7		0.396	mg/Kg		03/09/23 15:49	03/20/23 11:01	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	03/09/23 15:49	03/20/23 11:01	100
1,4-Difluorobenzene (Surr)	94		70 - 130	03/09/23 15:49	03/20/23 11:01	100

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	38.8		0.396	mg/Kg			03/20/23 12:23	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-4 @ 9'

Lab Sample ID: 880-25699-26
Matrix: Solid
Date Collected: 03/08/23 14:05
Date Received: 03/09/23 08:18
Sample Depth: 9'

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1830		49.9		mg/Kg			03/10/23 18:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	912		49.9		mg/Kg		03/09/23 10:49	03/10/23 04:14	1
Diesel Range Organics (Over C10-C28)	825		49.9		mg/Kg		03/09/23 10:49	03/10/23 04:14	1
Oil Range Organics (Over C28-C36)	96.9		49.9		mg/Kg		03/09/23 10:49	03/10/23 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*27*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 04:14*	*1*
o-Terphenyl	*24*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 04:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.9		5.04		mg/Kg			03/09/23 16:22	1

Client Sample ID: TT-4 @ 10'

Lab Sample ID: 880-25699-27
Matrix: Solid
Date Collected: 03/08/23 14:20
Date Received: 03/09/23 08:18
Sample Depth: 10'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	17.1		0.200		mg/Kg		03/14/23 14:47	03/19/23 08:54	100
Toluene	181		0.990		mg/Kg		03/20/23 08:52	03/20/23 15:38	500
Ethylbenzene	22.3		0.200		mg/Kg		03/14/23 14:47	03/19/23 08:54	100
m-Xylene & p-Xylene	25.7		0.399		mg/Kg		03/14/23 14:47	03/19/23 08:54	100
o-Xylene	10.8		0.200		mg/Kg		03/14/23 14:47	03/19/23 08:54	100
Xylenes, Total	36.5		0.399		mg/Kg		03/14/23 14:47	03/19/23 08:54	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*03/14/23 14:47*	*03/19/23 08:54*	*100*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*03/20/23 08:52*	*03/20/23 15:38*	*500*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*03/14/23 14:47*	*03/19/23 08:54*	*100*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*03/20/23 08:52*	*03/20/23 15:38*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	257		0.399		mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1820		50.0		mg/Kg			03/10/23 18:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	865		50.0		mg/Kg		03/09/23 10:49	03/10/23 04:36	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-4 @ 10'

Lab Sample ID: 880-25699-27
Matrix: Solid
Date Collected: 03/08/23 14:20
Date Received: 03/09/23 08:18
Sample Depth: 10'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	858		50.0		mg/Kg		03/09/23 10:49	03/10/23 04:36	1
Oil Range Organics (Over C28-C36)	100		50.0		mg/Kg		03/09/23 10:49	03/10/23 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*26*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 04:36*	*1*
o-Terphenyl	*23*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 04:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.3		4.98		mg/Kg			03/09/23 16:27	1

Client Sample ID: TT-4 @ 11'

Lab Sample ID: 880-25699-28
Matrix: Solid
Date Collected: 03/08/23 14:30
Date Received: 03/09/23 08:18
Sample Depth: 11'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.69		0.201		mg/Kg		03/14/23 14:47	03/19/23 09:14	100
Toluene	18.7		0.201		mg/Kg		03/14/23 14:47	03/19/23 09:14	100
Ethylbenzene	9.44		0.201		mg/Kg		03/14/23 14:47	03/19/23 09:14	100
m-Xylene & p-Xylene	11.3		0.402		mg/Kg		03/14/23 14:47	03/19/23 09:14	100
o-Xylene	5.59		0.201		mg/Kg		03/14/23 14:47	03/19/23 09:14	100
Xylenes, Total	16.9		0.402		mg/Kg		03/14/23 14:47	03/19/23 09:14	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*03/14/23 14:47*	*03/19/23 09:14*	*100*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/14/23 14:47*	*03/19/23 09:14*	*100*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	49.7		0.402		mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1860		49.9		mg/Kg			03/10/23 18:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	864		49.9		mg/Kg		03/09/23 10:49	03/10/23 04:57	1
Diesel Range Organics (Over C10-C28)	893		49.9		mg/Kg		03/09/23 10:49	03/10/23 04:57	1
Oil Range Organics (Over C28-C36)	107		49.9		mg/Kg		03/09/23 10:49	03/10/23 04:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*26*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 04:57*	*1*
o-Terphenyl	*23*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 04:57*	*1*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-4 @ 11'

Lab Sample ID: 880-25699-28
Matrix: Solid
Date Collected: 03/08/23 14:30
Date Received: 03/09/23 08:18
Sample Depth: 11'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.8		4.95		mg/Kg			03/09/23 16:32	1

Client Sample ID: TT-4 @ 11.5'

Lab Sample ID: 880-25699-29
Matrix: Solid
Date Collected: 03/08/23 14:40
Date Received: 03/09/23 08:18
Sample Depth: 11.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	8.94		0.499		mg/Kg		03/16/23 12:22	03/18/23 04:20	250
Toluene	80.4		0.499		mg/Kg		03/16/23 12:22	03/18/23 04:20	250
Ethylbenzene	44.5		0.499		mg/Kg		03/16/23 12:22	03/18/23 04:20	250
m-Xylene & p-Xylene	56.0		0.998		mg/Kg		03/16/23 12:22	03/18/23 04:20	250
o-Xylene	23.6		0.499		mg/Kg		03/16/23 12:22	03/18/23 04:20	250
Xylenes, Total	79.6		0.998		mg/Kg		03/16/23 12:22	03/18/23 04:20	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*03/16/23 12:22*	*03/18/23 04:20*	*250*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*03/16/23 12:22*	*03/18/23 04:20*	*250*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	213		0.998		mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1800		50.0		mg/Kg			03/10/23 18:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	804		50.0		mg/Kg		03/09/23 10:49	03/10/23 05:18	1
Diesel Range Organics (Over C10-C28)	886		50.0		mg/Kg		03/09/23 10:49	03/10/23 05:18	1
Oil Range Organics (Over C28-C36)	105		50.0		mg/Kg		03/09/23 10:49	03/10/23 05:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*25*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 05:18*	*1*
o-Terphenyl	*23*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 05:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.3		4.97		mg/Kg			03/09/23 16:37	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-4 @ 12'

Date Collected: 03/08/23 14:50
Date Received: 03/09/23 08:18
Sample Depth: 12'

Lab Sample ID: 880-25699-30

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.80		0.503		mg/Kg		03/16/23 12:22	03/18/23 04:40	250
Toluene	44.2		0.503		mg/Kg		03/16/23 12:22	03/18/23 04:40	250
Ethylbenzene	26.3		0.503		mg/Kg		03/16/23 12:22	03/18/23 04:40	250
m-Xylene & p-Xylene	32.4		1.01		mg/Kg		03/16/23 12:22	03/18/23 04:40	250
o-Xylene	12.7		0.503		mg/Kg		03/16/23 12:22	03/18/23 04:40	250
Xylenes, Total	45.1		1.01		mg/Kg		03/16/23 12:22	03/18/23 04:40	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*03/16/23 12:22*	*03/18/23 04:40*	*250*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*03/16/23 12:22*	*03/18/23 04:40*	*250*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	119		1.01		mg/Kg			03/19/23 16:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1690		49.9		mg/Kg			03/10/23 18:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	707		49.9		mg/Kg		03/09/23 10:49	03/10/23 05:40	1
Diesel Range Organics (Over C10-C28)	875		49.9		mg/Kg		03/09/23 10:49	03/10/23 05:40	1
Oil Range Organics (Over C28-C36)	103		49.9		mg/Kg		03/09/23 10:49	03/10/23 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*27*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 05:40*	*1*
o-Terphenyl	*25*	*S1-*	*70 - 130*	*03/09/23 10:49*	*03/10/23 05:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.8	F1	4.99		mg/Kg			03/09/23 16:42	1

Surrogate Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-25699-2	TT-1 @ 5'	33 S1-	29 S1-
880-25699-3	TT-1 @ 6'	73	5 S1-
880-25699-4	TT-1 @ 7'	107	90
880-25699-5	TT-1 @ 8'	124	107
880-25699-6	TT-1 @ 9'	92	91
880-25699-7	TT-1 @ 10'	80	75
880-25699-8	TT-1 @ 10.5'	101	98
880-25699-9	TT-1 @ 11'	121	108
880-25699-10	TT-1 @ 11.5'	121	104
880-25699-12	TT-2 @ 5'	100	91
880-25699-13	TT-3 @ 4'	92	82
880-25699-14	TT-3 @ 5'	103	91
880-25699-15	TT-3 @ 6'	86	76
880-25699-16	TT-3 @ 7'	90	74
880-25699-17	TT-3 @ 8'	130	120
880-25699-18	TT-3 @ 9'	97	87
880-25699-19	TT-3 @ 10'	95	88
880-25699-20	TT-3 @ 10.5'	97	86
880-25699-22	TT-4 @ 5'	88	83
880-25699-23	TT-4 @ 6'	91	85
880-25699-24	TT-4 @ 7'	95	102
880-25699-25	TT-4 @ 8'	125	106
880-25699-26	TT-4 @ 9'	84	94
880-25699-27	TT-4 @ 10'	89	76
880-25699-27	TT-4 @ 10'	143 S1+	116
880-25699-28	TT-4 @ 11'	94	85
880-25699-29	TT-4 @ 11.5'	79	67 S1-
880-25699-30	TT-4 @ 12'	87	80
880-25710-A-1-E MS	Matrix Spike	107	95
880-25710-A-1-F MSD	Matrix Spike Duplicate	106	102
880-25714-A-1-A MS	Matrix Spike	102	96
880-25714-A-1-B MSD	Matrix Spike Duplicate	102	99
880-25738-A-1-I MS	Matrix Spike	107	98
880-25738-A-1-J MSD	Matrix Spike Duplicate	109	99
880-25738-A-3-F MS	Matrix Spike	109	94
880-25738-A-3-G MSD	Matrix Spike Duplicate	115	82
880-25766-A-1-F MS	Matrix Spike	137 S1+	76
880-25766-A-1-G MSD	Matrix Spike Duplicate	124	94
880-25777-A-1-A MS	Matrix Spike	84	85
880-25777-A-1-B MSD	Matrix Spike Duplicate	99	88
890-4222-A-1-C MS	Matrix Spike	116	108
890-4222-A-1-D MSD	Matrix Spike Duplicate	112	103
LCS 880-48205/1-A	Lab Control Sample	120	108
LCS 880-48248/1-A	Lab Control Sample	107	100
LCS 880-48308/1-A	Lab Control Sample	109	4 S1-
LCS 880-48617/1-A	Lab Control Sample	113	99
LCS 880-48750/1-A	Lab Control Sample	105	103
LCS 880-48885/1-A	Lab Control Sample	133 S1+	90
LCS 880-48951/1-A	Lab Control Sample	85	91

Surrogate Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
LCSD 880-48205/2-A	Lab Control Sample Dup	112	109
LCSD 880-48248/2-A	Lab Control Sample Dup	103	104
LCSD 880-48308/2-A	Lab Control Sample Dup	106	100
LCSD 880-48617/2-A	Lab Control Sample Dup	112	98
LCSD 880-48750/2-A	Lab Control Sample Dup	107	103
LCSD 880-48885/2-A	Lab Control Sample Dup	125	85
LCSD 880-48951/2-A	Lab Control Sample Dup	83	109
MB 880-48205/5-A	Method Blank	110	102
MB 880-48248/5-A	Method Blank	92	89
MB 880-48308/5-A	Method Blank	94	87
MB 880-48309/5-A	Method Blank	103	100
MB 880-48617/5-A	Method Blank	99	86
MB 880-48740/5-A	Method Blank	69 S1-	91
MB 880-48749/5-A	Method Blank	91	90
MB 880-48750/5-A	Method Blank	95	88
MB 880-48844/5-A	Method Blank	92	89
MB 880-48885/5-A	Method Blank	74	84
MB 880-48951/5-A	Method Blank	72	86

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-25699-2	TT-1 @ 5'	207 S1+	162 S1+
880-25699-3	TT-1 @ 6'	174 S1+	121
880-25699-4	TT-1 @ 7'	131 S1+	118
880-25699-5	TT-1 @ 8'	91	103
880-25699-6	TT-1 @ 9'	94	101
880-25699-7	TT-1 @ 10'	97	104
880-25699-8	TT-1 @ 10.5'	86	91
880-25699-9	TT-1 @ 11'	106	110
880-25699-10	TT-1 @ 11.5'	93	103
880-25699-10 MS	TT-1 @ 11.5'	111	105
880-25699-10 MSD	TT-1 @ 11.5'	115	115
880-25699-12	TT-2 @ 5'	108	114
880-25699-13	TT-3 @ 4'	112	114
880-25699-14	TT-3 @ 5'	158 S1+	104
880-25699-15	TT-3 @ 6'	207 S1+	174 S1+
880-25699-16	TT-3 @ 7'	177 S1+	116
880-25699-17	TT-3 @ 8'	110	115
880-25699-18	TT-3 @ 9'	164 S1+	116
880-25699-19	TT-3 @ 10'	105	117
880-25699-20	TT-3 @ 10.5'	98	104
880-25699-22	TT-4 @ 5'	149 S1+	111
880-25699-23	TT-4 @ 6'	136 S1+	110

Surrogate Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-25699-24	TT-4 @ 7'	26 S1-	23 S1-								
880-25699-25	TT-4 @ 8'	28 S1-	26 S1-								
880-25699-26	TT-4 @ 9'	27 S1-	24 S1-								
880-25699-27	TT-4 @ 10'	26 S1-	23 S1-								
880-25699-28	TT-4 @ 11'	26 S1-	23 S1-								
880-25699-29	TT-4 @ 11.5'	25 S1-	23 S1-								
880-25699-30	TT-4 @ 12'	27 S1-	25 S1-								
890-4232-A-1-C MS	Matrix Spike	107	102								
890-4232-A-1-D MSD	Matrix Spike Duplicate	110	102								
LCS 880-48193/2-A	Lab Control Sample	97	98								
LCS 880-48200/2-A	Lab Control Sample	92	97								
LCSD 880-48193/3-A	Lab Control Sample Dup	82	89								
LCSD 880-48200/3-A	Lab Control Sample Dup	99	108								
MB 880-48193/1-A	Method Blank	125	139 S1+								
MB 880-48200/1-A	Method Blank	136 S1+	155 S1+								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48205/5-A
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48205

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/23 11:30	03/11/23 04:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/23 11:30	03/11/23 04:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/23 11:30	03/11/23 04:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/23 11:30	03/11/23 04:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/23 11:30	03/11/23 04:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/23 11:30	03/11/23 04:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/09/23 11:30*	*03/11/23 04:45*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/09/23 11:30*	*03/11/23 04:45*	*1*

Lab Sample ID: LCS 880-48205/1-A
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48205

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07627		mg/Kg		76	70 - 130		
Toluene			0.100	0.08361		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.08693		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1866		mg/Kg		93	70 - 130		
o-Xylene			0.100	0.09372		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-48205/2-A
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48205

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08385		mg/Kg		84	70 - 130	9	35
Toluene			0.100	0.08105		mg/Kg		81	70 - 130	3	35
Ethylbenzene			0.100	0.08402		mg/Kg		84	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1821		mg/Kg		91	70 - 130	2	35
o-Xylene			0.100	0.08954		mg/Kg		90	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-4222-A-1-C MS
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48205

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00201	U F1	0.100	0.05099	F1	mg/Kg		51	70 - 130		
Toluene	<0.00201	U F1	0.100	0.04796	F1	mg/Kg		48	70 - 130		

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-4222-A-1-C MS
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48205

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.100	0.04950	F1	mg/Kg		49	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1051	F1	mg/Kg		52	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.05308	F1	mg/Kg		52	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-4222-A-1-D MSD
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48205

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0996	0.05009	F1	mg/Kg		50	70 - 130	2	35
Toluene	<0.00201	U F1	0.0996	0.05159	F1	mg/Kg		52	70 - 130	7	35
Ethylbenzene	<0.00201	U F1	0.0996	0.05362	F1	mg/Kg		54	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1113	F1	mg/Kg		56	70 - 130	6	35
o-Xylene	<0.00201	U F1	0.0996	0.05556	F1	mg/Kg		55	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-48248/5-A
Matrix: Solid
Analysis Batch: 48914

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48248

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/09/23 15:49	03/20/23 02:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/09/23 15:49	03/20/23 02:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/09/23 15:49	03/20/23 02:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/09/23 15:49	03/20/23 02:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/09/23 15:49	03/20/23 02:34	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/09/23 15:49	03/20/23 02:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*03/09/23 15:49*	*03/20/23 02:34*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/09/23 15:49*	*03/20/23 02:34*	*1*

Lab Sample ID: LCS 880-48248/1-A
Matrix: Solid
Analysis Batch: 48914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08937		mg/Kg		89	70 - 130
Toluene	0.100	0.09225		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09171		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1896		mg/Kg		95	70 - 130

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-48248/1-A
Matrix: Solid
Analysis Batch: 48914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48248

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09724		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-48248/2-A
Matrix: Solid
Analysis Batch: 48914

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48248

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1039		mg/Kg		104	70 - 130	15	35
Toluene			0.100	0.1046		mg/Kg		105	70 - 130	13	35
Ethylbenzene			0.100	0.09990		mg/Kg		100	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2027		mg/Kg		101	70 - 130	7	35
o-Xylene			0.100	0.1030		mg/Kg		103	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-25714-A-1-A MS
Matrix: Solid
Analysis Batch: 48914

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U F1	0.0998	0.04242	F1	mg/Kg		43	70 - 130		
Toluene	<0.00198	U F1	0.0998	0.03901	F1	mg/Kg		38	70 - 130		
Ethylbenzene	<0.00198	U F1	0.0998	0.03302	F1	mg/Kg		33	70 - 130		
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.06530	F1	mg/Kg		33	70 - 130		
o-Xylene	<0.00198	U F1	0.0998	0.03473	F1	mg/Kg		34	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-25714-A-1-B MSD
Matrix: Solid
Analysis Batch: 48914

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48248

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.05015	F1	mg/Kg		50	70 - 130	17	35
Toluene	<0.00198	U F1	0.100	0.03952	F1	mg/Kg		38	70 - 130	1	35
Ethylbenzene	<0.00198	U F1	0.100	0.03223	F1	mg/Kg		32	70 - 130	2	35
m-Xylene & p-Xylene	<0.00396	U F1	0.201	0.06347	F1	mg/Kg		32	70 - 130	3	35
o-Xylene	<0.00198	U F1	0.100	0.03404	F1	mg/Kg		34	70 - 130	2	35

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-25714-A-1-B MSD
Matrix: Solid
Analysis Batch: 48914

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48248

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-48308/5-A
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48308

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/10/23 11:06	03/18/23 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/10/23 11:06	03/18/23 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/10/23 11:06	03/18/23 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/10/23 11:06	03/18/23 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/10/23 11:06	03/18/23 13:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/10/23 11:06	03/18/23 13:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/10/23 11:06	03/18/23 13:13	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/10/23 11:06	03/18/23 13:13	1

Lab Sample ID: LCS 880-48308/1-A
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48308

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08645		mg/Kg		86	70 - 130		
Toluene			0.100	0.08890		mg/Kg		89	70 - 130		
Ethylbenzene			0.100	0.08721		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.1785		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.09241		mg/Kg		92	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	4	S1-	70 - 130

Lab Sample ID: LCSD 880-48308/2-A
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48308

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08928		mg/Kg		89	70 - 130	3	35
Toluene			0.100	0.08895		mg/Kg		89	70 - 130	0	35
Ethylbenzene			0.100	0.08426		mg/Kg		84	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1717		mg/Kg		86	70 - 130	4	35
o-Xylene			0.100	0.08777		mg/Kg		88	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-48308/2-A
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48308

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-25710-A-1-E MS
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48308

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U F1	0.100	0.07008	F1	mg/Kg		69	70 - 130
Toluene	<0.00198	U F1	0.100	0.05452	F1	mg/Kg		54	70 - 130
Ethylbenzene	<0.00198	U F1	0.100	0.05560	F1	mg/Kg		55	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.201	0.1064	F1	mg/Kg		53	70 - 130
o-Xylene	<0.00198	U	0.100	0.07157		mg/Kg		71	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-25710-A-1-F MSD
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48308

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0990	0.08029		mg/Kg		80	70 - 130	14	35
Toluene	<0.00198	U F1	0.0990	0.06705	F1	mg/Kg		68	70 - 130	21	35
Ethylbenzene	<0.00198	U F1	0.0990	0.06493	F1	mg/Kg		66	70 - 130	15	35
m-Xylene & p-Xylene	<0.00396	U F1	0.198	0.1261	F1	mg/Kg		64	70 - 130	17	35
o-Xylene	<0.00198	U	0.0990	0.07822		mg/Kg		79	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-48309/5-A
Matrix: Solid
Analysis Batch: 48323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48309

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/10/23 11:09	03/10/23 17:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/10/23 11:09	03/10/23 17:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/10/23 11:09	03/10/23 17:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/10/23 11:09	03/10/23 17:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/10/23 11:09	03/10/23 17:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/10/23 11:09	03/10/23 17:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/10/23 11:09	03/10/23 17:11	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/10/23 11:09	03/10/23 17:11	1

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-48617/5-A
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48617

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 00:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 00:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 00:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/14/23 14:47	03/19/23 00:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/14/23 14:47	03/19/23 00:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/14/23 14:47	03/19/23 00:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*03/14/23 14:47*	*03/19/23 00:48*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/14/23 14:47*	*03/19/23 00:48*	*1*

Lab Sample ID: LCS 880-48617/1-A
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48617

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09224		mg/Kg		92	70 - 130		
Toluene			0.100	0.09912		mg/Kg		99	70 - 130		
Ethylbenzene			0.100	0.09653		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.1965		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.09975		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-48617/2-A
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48617

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08472		mg/Kg		85	70 - 130	8	35
Toluene			0.100	0.09759		mg/Kg		98	70 - 130	2	35
Ethylbenzene			0.100	0.09669		mg/Kg		97	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1982		mg/Kg		99	70 - 130	1	35
o-Xylene			0.100	0.1006		mg/Kg		101	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-25738-A-1-I MS
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.0998	0.07176		mg/Kg		72	70 - 130		
Toluene	<0.00202	U	0.0998	0.07264		mg/Kg		73	70 - 130		

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-25738-A-1-I MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48814 — **Prep Batch: 48617**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.0998	0.07011		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1435		mg/Kg		72	70 - 130
o-Xylene	<0.00202	U	0.0998	0.07339		mg/Kg		73	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-25738-A-1-J MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48814 — **Prep Batch: 48617**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08442		mg/Kg		84	70 - 130	16	35
Toluene	<0.00202	U	0.100	0.08503		mg/Kg		85	70 - 130	16	35
Ethylbenzene	<0.00202	U	0.100	0.08223		mg/Kg		82	70 - 130	16	35
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1666		mg/Kg		83	70 - 130	15	35
o-Xylene	<0.00202	U	0.100	0.08626		mg/Kg		85	70 - 130	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 880-48740/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48800 — **Prep Batch: 48740**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 12:01	03/18/23 08:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 12:01	03/18/23 08:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 12:01	03/18/23 08:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/16/23 12:01	03/18/23 08:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 12:01	03/18/23 08:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/16/23 12:01	03/18/23 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*03/16/23 12:01*	*03/18/23 08:27*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/16/23 12:01*	*03/18/23 08:27*	*1*

Lab Sample ID: MB 880-48749/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48814 — **Prep Batch: 48749**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 12:20	03/17/23 13:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 12:20	03/17/23 13:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 12:20	03/17/23 13:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/16/23 12:20	03/17/23 13:32	1

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-48749/5-A
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48749

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 12:20	03/17/23 13:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/16/23 12:20	03/17/23 13:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/16/23 12:20*	*03/17/23 13:32*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/16/23 12:20*	*03/17/23 13:32*	*1*

Lab Sample ID: MB 880-48750/5-A
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48750

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/16/23 12:22	03/18/23 01:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/16/23 12:22	03/18/23 01:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/16/23 12:22	03/18/23 01:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/16/23 12:22	03/18/23 01:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/16/23 12:22	03/18/23 01:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/16/23 12:22	03/18/23 01:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*03/16/23 12:22*	*03/18/23 01:07*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/16/23 12:22*	*03/18/23 01:07*	*1*

Lab Sample ID: LCS 880-48750/1-A
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48750

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09818		mg/Kg		98	70 - 130		
Toluene			0.100	0.09577		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09030		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene			0.200	0.1837		mg/Kg		92	70 - 130		
o-Xylene			0.100	0.09359		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-48750/2-A
Matrix: Solid
Analysis Batch: 48814

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48750

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09542		mg/Kg		95	70 - 130	3	35
Toluene			0.100	0.09418		mg/Kg		94	70 - 130	2	35
Ethylbenzene			0.100	0.09008		mg/Kg		90	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1828		mg/Kg		91	70 - 130	0	35
o-Xylene			0.100	0.09319		mg/Kg		93	70 - 130	0	35

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-25777-A-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48814 — **Prep Batch: 48750**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.0998	0.03377	F1	mg/Kg		34	70 - 130
Toluene	<0.00201	U F1	0.0998	0.03745	F1	mg/Kg		38	70 - 130
Ethylbenzene	<0.00201	U F1	0.0998	0.02988	F1	mg/Kg		30	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.200	0.05821	F1	mg/Kg		29	70 - 130
o-Xylene	<0.00201	U F1	0.0998	0.03159	F1	mg/Kg		32	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-25777-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48814 — **Prep Batch: 48750**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0990	0.03954	F1	mg/Kg		40	70 - 130	16	35
Toluene	<0.00201	U F1	0.0990	0.04026	F1	mg/Kg		41	70 - 130	7	35
Ethylbenzene	<0.00201	U F1	0.0990	0.03408	F1	mg/Kg		34	70 - 130	13	35
m-Xylene & p-Xylene	<0.00402	U F1	0.198	0.06759	F1	mg/Kg		34	70 - 130	15	35
o-Xylene	<0.00201	U F1	0.0990	0.03588	F1	mg/Kg		36	70 - 130	13	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-48844/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 48914 — **Prep Batch: 48844**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/23 13:16	03/19/23 15:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/23 13:16	03/19/23 15:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/23 13:16	03/19/23 15:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/17/23 13:16	03/19/23 15:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/23 13:16	03/19/23 15:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/17/23 13:16	03/19/23 15:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	03/17/23 13:16	03/19/23 15:00	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/17/23 13:16	03/19/23 15:00	1

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-48885/5-A
Matrix: Solid
Analysis Batch: 48800

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48885

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/18/23 09:54	03/18/23 19:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/18/23 09:54	03/18/23 19:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/18/23 09:54	03/18/23 19:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/18/23 09:54	03/18/23 19:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/18/23 09:54	03/18/23 19:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/18/23 09:54	03/18/23 19:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*03/18/23 09:54*	*03/18/23 19:13*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/18/23 09:54*	*03/18/23 19:13*	*1*

Lab Sample ID: LCS 880-48885/1-A
Matrix: Solid
Analysis Batch: 48800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48885

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07127		mg/Kg		71	70 - 130		
Toluene			0.100	0.08387		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.09794		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.2189		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1125		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-48885/2-A
Matrix: Solid
Analysis Batch: 48800

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48885

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.06581	*-	mg/Kg		66	70 - 130	8	35
Toluene			0.100	0.07424		mg/Kg		74	70 - 130	12	35
Ethylbenzene			0.100	0.08215		mg/Kg		82	70 - 130	18	35
m-Xylene & p-Xylene			0.200	0.1842		mg/Kg		92	70 - 130	17	35
o-Xylene			0.100	0.09380		mg/Kg		94	70 - 130	18	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 880-25766-A-1-F MS
Matrix: Solid
Analysis Batch: 48800

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48885

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U F1 *- F2	0.101	0.05128	F1	mg/Kg		51	70 - 130		
Toluene	<0.00199	U F1	0.101	0.06692	F1	mg/Kg		66	70 - 130		

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-25766-A-1-F MS
Matrix: Solid
Analysis Batch: 48800

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48885

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.101	0.08503		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1877		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U	0.101	0.09415		mg/Kg		93	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*

Lab Sample ID: 880-25766-A-1-G MSD
Matrix: Solid
Analysis Batch: 48800

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48885

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1 *- F2	0.0996	0.07589	F2	mg/Kg		76	70 - 130	39	35
Toluene	<0.00199	U F1	0.0996	0.08475		mg/Kg		85	70 - 130	24	35
Ethylbenzene	<0.00199	U	0.0996	0.09775		mg/Kg		98	70 - 130	14	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2176		mg/Kg		109	70 - 130	15	35
o-Xylene	<0.00199	U	0.0996	0.1098		mg/Kg		110	70 - 130	15	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 880-48951/5-A
Matrix: Solid
Analysis Batch: 48949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48951

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/20/23 08:52	03/20/23 12:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/20/23 08:52	03/20/23 12:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/20/23 08:52	03/20/23 12:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/20/23 08:52	03/20/23 12:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/20/23 08:52	03/20/23 12:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/20/23 08:52	03/20/23 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*03/20/23 08:52*	*03/20/23 12:12*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/20/23 08:52*	*03/20/23 12:12*	*1*

Lab Sample ID: LCS 880-48951/1-A
Matrix: Solid
Analysis Batch: 48949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1036		mg/Kg		104	70 - 130
Toluene	0.100	0.1035		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.09340		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1942		mg/Kg		97	70 - 130

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-48951/1-A
Matrix: Solid
Analysis Batch: 48949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48951

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09432		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-48951/2-A
Matrix: Solid
Analysis Batch: 48949

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48951

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1160		mg/Kg		116	70 - 130	11	35
Toluene			0.100	0.09918		mg/Kg		99	70 - 130	4	35
Ethylbenzene			0.100	0.08763		mg/Kg		88	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1829		mg/Kg		91	70 - 130	6	35
o-Xylene			0.100	0.08907		mg/Kg		89	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-25738-A-3-F MS
Matrix: Solid
Analysis Batch: 48949

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48951

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.0998	0.08500		mg/Kg		85	70 - 130		
Toluene	<0.00198	U	0.0998	0.08669		mg/Kg		87	70 - 130		
Ethylbenzene	<0.00198	U	0.0998	0.08637		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1844		mg/Kg		92	70 - 130		
o-Xylene	<0.00198	U	0.0998	0.08950		mg/Kg		89	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-25738-A-3-G MSD
Matrix: Solid
Analysis Batch: 48949

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48951

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.09692		mg/Kg		97	70 - 130	13	35
Toluene	<0.00198	U	0.100	0.09739		mg/Kg		97	70 - 130	12	35
Ethylbenzene	<0.00198	U	0.100	0.09262		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene	<0.00396	U	0.201	0.2046		mg/Kg		102	70 - 130	10	35
o-Xylene	<0.00198	U	0.100	0.1048		mg/Kg		104	70 - 130	16	35

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-25738-A-3-G MSD
Matrix: Solid
Analysis Batch: 48949

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48951

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-48193/1-A
Matrix: Solid
Analysis Batch: 48171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48193

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/09/23 10:13	03/09/23 20:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/23 10:13	03/09/23 20:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/23 10:13	03/09/23 20:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130	03/09/23 10:13	03/09/23 20:42	1
o-Terphenyl	139	S1+	70 - 130	03/09/23 10:13	03/09/23 20:42	1

Lab Sample ID: LCS 880-48193/2-A
Matrix: Solid
Analysis Batch: 48171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48193

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	915.6		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1027		mg/Kg		103	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: LCSD 880-48193/3-A
Matrix: Solid
Analysis Batch: 48171

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48193

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	833.0		mg/Kg		83	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	897.8		mg/Kg		90	70 - 130	13	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	89		70 - 130

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-25699-10 MS
Matrix: Solid
Analysis Batch: 48171

Client Sample ID: TT-1 @ 11.5'
Prep Type: Total/NA
Prep Batch: 48193

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1041		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	983.4		mg/Kg		99	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: 880-25699-10 MSD
Matrix: Solid
Analysis Batch: 48171

Client Sample ID: TT-1 @ 11.5'
Prep Type: Total/NA
Prep Batch: 48193

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1147		mg/Kg		113	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1107		mg/Kg		111	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*115*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: MB 880-48200/1-A
Matrix: Solid
Analysis Batch: 48173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48200

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/09/23 10:49	03/09/23 20:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/23 10:49	03/09/23 20:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/23 10:49	03/09/23 20:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*03/09/23 10:49*	*03/09/23 20:42*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*03/09/23 10:49*	*03/09/23 20:42*	*1*

Lab Sample ID: LCS 880-48200/2-A
Matrix: Solid
Analysis Batch: 48173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48200

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	958.6		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)			1000	980.1		mg/Kg		98	70 - 130

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-48200/2-A
Matrix: Solid
Analysis Batch: 48173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48200

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: LCSD 880-48200/3-A
Matrix: Solid
Analysis Batch: 48173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48200

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1065		mg/Kg		106	70 - 130	10	20
Diesel Range Organics (Over C10-C28)			1000	1062		mg/Kg		106	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 890-4232-A-1-C MS
Matrix: Solid
Analysis Batch: 48173

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 48200

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	975.3		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	168		999	1012		mg/Kg		85	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-4232-A-1-D MSD
Matrix: Solid
Analysis Batch: 48173

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 48200

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1005		mg/Kg		98	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	168		998	1027		mg/Kg		86	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	102		70 - 130

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48181/1-A
Matrix: Solid
Analysis Batch: 48224

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/09/23 13:56	1

Lab Sample ID: LCS 880-48181/2-A
Matrix: Solid
Analysis Batch: 48224

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	268.4		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-48181/3-A
Matrix: Solid
Analysis Batch: 48224

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	269.3		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-25699-30 MS
Matrix: Solid
Analysis Batch: 48224

Client Sample ID: TT-4 @ 12'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	37.8	F1	250	328.5	F1	mg/Kg		116	90 - 110		

Lab Sample ID: 880-25699-30 MSD
Matrix: Solid
Analysis Batch: 48224

Client Sample ID: TT-4 @ 12'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	37.8	F1	250	326.0	F1	mg/Kg		115	90 - 110	1	20

Lab Sample ID: MB 880-48183/1-A
Matrix: Solid
Analysis Batch: 48264

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/10/23 09:38	1

Lab Sample ID: LCS 880-48183/2-A
Matrix: Solid
Analysis Batch: 48264

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.1		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-48183/3-A
Matrix: Solid
Analysis Batch: 48264

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	255.3		mg/Kg		102	90 - 110	0	20

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-25699-2 MS
Matrix: Solid
Analysis Batch: 48264

Client Sample ID: TT-1 @ 5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	66.5	F1	251	345.9	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-25699-2 MSD
Matrix: Solid
Analysis Batch: 48264

Client Sample ID: TT-1 @ 5'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	66.5	F1	251	345.8	F1	mg/Kg		111	90 - 110	0	20

Lab Sample ID: 880-25699-13 MS
Matrix: Solid
Analysis Batch: 48264

Client Sample ID: TT-3 @ 4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	78.2	F1	248	359.8	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-25699-13 MSD
Matrix: Solid
Analysis Batch: 48264

Client Sample ID: TT-3 @ 4'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	78.2	F1	248	359.4	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

GC VOA

Prep Batch: 48205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-2	TT-1 @ 5'	Total/NA	Solid	5035	
880-25699-5	TT-1 @ 8'	Total/NA	Solid	5035	
880-25699-6	TT-1 @ 9'	Total/NA	Solid	5035	
880-25699-7	TT-1 @ 10'	Total/NA	Solid	5035	
880-25699-8	TT-1 @ 10.5'	Total/NA	Solid	5035	
880-25699-9	TT-1 @ 11'	Total/NA	Solid	5035	
880-25699-10	TT-1 @ 11.5'	Total/NA	Solid	5035	
880-25699-12	TT-2 @ 5'	Total/NA	Solid	5035	
880-25699-20	TT-3 @ 10.5'	Total/NA	Solid	5035	
MB 880-48205/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48205/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48205/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4222-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4222-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 48248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-24	TT-4 @ 7'	Total/NA	Solid	5035	
880-25699-25	TT-4 @ 8'	Total/NA	Solid	5035	
880-25699-26	TT-4 @ 9'	Total/NA	Solid	5035	
MB 880-48248/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48248/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48248/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25714-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-25714-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 48308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-3	TT-1 @ 6'	Total/NA	Solid	5035	
880-25699-4	TT-1 @ 7'	Total/NA	Solid	5035	
880-25699-13	TT-3 @ 4'	Total/NA	Solid	5035	
880-25699-14	TT-3 @ 5'	Total/NA	Solid	5035	
880-25699-15	TT-3 @ 6'	Total/NA	Solid	5035	
880-25699-16	TT-3 @ 7'	Total/NA	Solid	5035	
880-25699-17	TT-3 @ 8'	Total/NA	Solid	5035	
880-25699-18	TT-3 @ 9'	Total/NA	Solid	5035	
MB 880-48308/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48308/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48308/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25710-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-25710-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 48309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48309/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 48323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-5	TT-1 @ 8'	Total/NA	Solid	8021B	48205
880-25699-6	TT-1 @ 9'	Total/NA	Solid	8021B	48205
880-25699-7	TT-1 @ 10'	Total/NA	Solid	8021B	48205

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

GC VOA (Continued)

Analysis Batch: 48323 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-8	TT-1 @ 10.5'	Total/NA	Solid	8021B	48205
880-25699-9	TT-1 @ 11'	Total/NA	Solid	8021B	48205
880-25699-10	TT-1 @ 11.5'	Total/NA	Solid	8021B	48205
880-25699-12	TT-2 @ 5'	Total/NA	Solid	8021B	48205
880-25699-20	TT-3 @ 10.5'	Total/NA	Solid	8021B	48205
MB 880-48205/5-A	Method Blank	Total/NA	Solid	8021B	48205
MB 880-48309/5-A	Method Blank	Total/NA	Solid	8021B	48309
LCS 880-48205/1-A	Lab Control Sample	Total/NA	Solid	8021B	48205
LCSD 880-48205/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48205
890-4222-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	48205
890-4222-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48205

Analysis Batch: 48555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-2	TT-1 @ 5'	Total/NA	Solid	Total BTEX	
880-25699-3	TT-1 @ 6'	Total/NA	Solid	Total BTEX	
880-25699-4	TT-1 @ 7'	Total/NA	Solid	Total BTEX	
880-25699-5	TT-1 @ 8'	Total/NA	Solid	Total BTEX	
880-25699-6	TT-1 @ 9'	Total/NA	Solid	Total BTEX	
880-25699-7	TT-1 @ 10'	Total/NA	Solid	Total BTEX	
880-25699-8	TT-1 @ 10.5'	Total/NA	Solid	Total BTEX	
880-25699-9	TT-1 @ 11'	Total/NA	Solid	Total BTEX	
880-25699-10	TT-1 @ 11.5'	Total/NA	Solid	Total BTEX	
880-25699-12	TT-2 @ 5'	Total/NA	Solid	Total BTEX	
880-25699-13	TT-3 @ 4'	Total/NA	Solid	Total BTEX	
880-25699-14	TT-3 @ 5'	Total/NA	Solid	Total BTEX	
880-25699-15	TT-3 @ 6'	Total/NA	Solid	Total BTEX	
880-25699-16	TT-3 @ 7'	Total/NA	Solid	Total BTEX	
880-25699-17	TT-3 @ 8'	Total/NA	Solid	Total BTEX	
880-25699-18	TT-3 @ 9'	Total/NA	Solid	Total BTEX	
880-25699-19	TT-3 @ 10'	Total/NA	Solid	Total BTEX	
880-25699-20	TT-3 @ 10.5'	Total/NA	Solid	Total BTEX	
880-25699-22	TT-4 @ 5'	Total/NA	Solid	Total BTEX	
880-25699-23	TT-4 @ 6'	Total/NA	Solid	Total BTEX	
880-25699-24	TT-4 @ 7'	Total/NA	Solid	Total BTEX	
880-25699-25	TT-4 @ 8'	Total/NA	Solid	Total BTEX	
880-25699-26	TT-4 @ 9'	Total/NA	Solid	Total BTEX	
880-25699-27	TT-4 @ 10'	Total/NA	Solid	Total BTEX	
880-25699-28	TT-4 @ 11'	Total/NA	Solid	Total BTEX	
880-25699-29	TT-4 @ 11.5'	Total/NA	Solid	Total BTEX	
880-25699-30	TT-4 @ 12'	Total/NA	Solid	Total BTEX	

Prep Batch: 48617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-19	TT-3 @ 10'	Total/NA	Solid	5035	
880-25699-22	TT-4 @ 5'	Total/NA	Solid	5035	
880-25699-23	TT-4 @ 6'	Total/NA	Solid	5035	
880-25699-27	TT-4 @ 10'	Total/NA	Solid	5035	
880-25699-28	TT-4 @ 11'	Total/NA	Solid	5035	
MB 880-48617/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48617/1-A	Lab Control Sample	Total/NA	Solid	5035	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

GC VOA (Continued)

Prep Batch: 48617 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-48617/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25738-A-1-I MS	Matrix Spike	Total/NA	Solid	5035	
880-25738-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 48740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48740/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 48749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48749/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 48750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-29	TT-4 @ 11.5'	Total/NA	Solid	5035	
880-25699-30	TT-4 @ 12'	Total/NA	Solid	5035	
MB 880-48750/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48750/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48750/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25777-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-25777-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 48800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48740/5-A	Method Blank	Total/NA	Solid	8021B	48740
MB 880-48885/5-A	Method Blank	Total/NA	Solid	8021B	48885
LCS 880-48885/1-A	Lab Control Sample	Total/NA	Solid	8021B	48885
LCSD 880-48885/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48885
880-25766-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	48885
880-25766-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48885

Analysis Batch: 48814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-2	TT-1 @ 5'	Total/NA	Solid	8021B	48205
880-25699-3	TT-1 @ 6'	Total/NA	Solid	8021B	48308
880-25699-4	TT-1 @ 7'	Total/NA	Solid	8021B	48308
880-25699-13	TT-3 @ 4'	Total/NA	Solid	8021B	48308
880-25699-14	TT-3 @ 5'	Total/NA	Solid	8021B	48308
880-25699-15	TT-3 @ 6'	Total/NA	Solid	8021B	48308
880-25699-16	TT-3 @ 7'	Total/NA	Solid	8021B	48308
880-25699-17	TT-3 @ 8'	Total/NA	Solid	8021B	48308
880-25699-18	TT-3 @ 9'	Total/NA	Solid	8021B	48308
880-25699-19	TT-3 @ 10'	Total/NA	Solid	8021B	48617
880-25699-22	TT-4 @ 5'	Total/NA	Solid	8021B	48617
880-25699-23	TT-4 @ 6'	Total/NA	Solid	8021B	48617
880-25699-27	TT-4 @ 10'	Total/NA	Solid	8021B	48617
880-25699-28	TT-4 @ 11'	Total/NA	Solid	8021B	48617
880-25699-29	TT-4 @ 11.5'	Total/NA	Solid	8021B	48750
880-25699-30	TT-4 @ 12'	Total/NA	Solid	8021B	48750
MB 880-48308/5-A	Method Blank	Total/NA	Solid	8021B	48308
MB 880-48617/5-A	Method Blank	Total/NA	Solid	8021B	48617

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

GC VOA (Continued)

Analysis Batch: 48814 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48749/5-A	Method Blank	Total/NA	Solid	8021B	48749
MB 880-48750/5-A	Method Blank	Total/NA	Solid	8021B	48750
LCS 880-48308/1-A	Lab Control Sample	Total/NA	Solid	8021B	48308
LCS 880-48617/1-A	Lab Control Sample	Total/NA	Solid	8021B	48617
LCS 880-48750/1-A	Lab Control Sample	Total/NA	Solid	8021B	48750
LCSD 880-48308/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48308
LCSD 880-48617/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48617
LCSD 880-48750/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48750
880-25710-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	48308
880-25710-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48308
880-25738-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	48617
880-25738-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48617
880-25777-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	48750
880-25777-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48750

Prep Batch: 48844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48844/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 48885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48885/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48885/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48885/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25766-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-25766-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 48914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-24	TT-4 @ 7'	Total/NA	Solid	8021B	48248
880-25699-25	TT-4 @ 8'	Total/NA	Solid	8021B	48248
880-25699-26	TT-4 @ 9'	Total/NA	Solid	8021B	48248
MB 880-48248/5-A	Method Blank	Total/NA	Solid	8021B	48248
MB 880-48844/5-A	Method Blank	Total/NA	Solid	8021B	48844
LCS 880-48248/1-A	Lab Control Sample	Total/NA	Solid	8021B	48248
LCSD 880-48248/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48248
880-25714-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	48248
880-25714-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48248

Analysis Batch: 48949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-27	TT-4 @ 10'	Total/NA	Solid	8021B	48951
MB 880-48951/5-A	Method Blank	Total/NA	Solid	8021B	48951
LCS 880-48951/1-A	Lab Control Sample	Total/NA	Solid	8021B	48951
LCSD 880-48951/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48951
880-25738-A-3-F MS	Matrix Spike	Total/NA	Solid	8021B	48951
880-25738-A-3-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48951

Prep Batch: 48951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-27	TT-4 @ 10'	Total/NA	Solid	5035	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

GC VOA (Continued)

Prep Batch: 48951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48951/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48951/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48951/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25738-A-3-F MS	Matrix Spike	Total/NA	Solid	5035	
880-25738-A-3-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 48171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-2	TT-1 @ 5'	Total/NA	Solid	8015B NM	48193
880-25699-3	TT-1 @ 6'	Total/NA	Solid	8015B NM	48193
880-25699-4	TT-1 @ 7'	Total/NA	Solid	8015B NM	48193
880-25699-5	TT-1 @ 8'	Total/NA	Solid	8015B NM	48193
880-25699-6	TT-1 @ 9'	Total/NA	Solid	8015B NM	48193
880-25699-7	TT-1 @ 10'	Total/NA	Solid	8015B NM	48193
880-25699-8	TT-1 @ 10.5'	Total/NA	Solid	8015B NM	48193
880-25699-9	TT-1 @ 11'	Total/NA	Solid	8015B NM	48193
880-25699-10	TT-1 @ 11.5'	Total/NA	Solid	8015B NM	48193
880-25699-12	TT-2 @ 5'	Total/NA	Solid	8015B NM	48193
880-25699-13	TT-3 @ 4'	Total/NA	Solid	8015B NM	48193
880-25699-14	TT-3 @ 5'	Total/NA	Solid	8015B NM	48193
880-25699-15	TT-3 @ 6'	Total/NA	Solid	8015B NM	48193
880-25699-16	TT-3 @ 7'	Total/NA	Solid	8015B NM	48193
880-25699-17	TT-3 @ 8'	Total/NA	Solid	8015B NM	48193
880-25699-18	TT-3 @ 9'	Total/NA	Solid	8015B NM	48193
880-25699-19	TT-3 @ 10'	Total/NA	Solid	8015B NM	48193
880-25699-20	TT-3 @ 10.5'	Total/NA	Solid	8015B NM	48193
880-25699-22	TT-4 @ 5'	Total/NA	Solid	8015B NM	48193
880-25699-23	TT-4 @ 6'	Total/NA	Solid	8015B NM	48193
MB 880-48193/1-A	Method Blank	Total/NA	Solid	8015B NM	48193
LCS 880-48193/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48193
LCSD 880-48193/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48193
880-25699-10 MS	TT-1 @ 11.5'	Total/NA	Solid	8015B NM	48193
880-25699-10 MSD	TT-1 @ 11.5'	Total/NA	Solid	8015B NM	48193

Analysis Batch: 48173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-24	TT-4 @ 7'	Total/NA	Solid	8015B NM	48200
880-25699-25	TT-4 @ 8'	Total/NA	Solid	8015B NM	48200
880-25699-26	TT-4 @ 9'	Total/NA	Solid	8015B NM	48200
880-25699-27	TT-4 @ 10'	Total/NA	Solid	8015B NM	48200
880-25699-28	TT-4 @ 11'	Total/NA	Solid	8015B NM	48200
880-25699-29	TT-4 @ 11.5'	Total/NA	Solid	8015B NM	48200
880-25699-30	TT-4 @ 12'	Total/NA	Solid	8015B NM	48200
MB 880-48200/1-A	Method Blank	Total/NA	Solid	8015B NM	48200
LCS 880-48200/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48200
LCSD 880-48200/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48200
890-4232-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	48200
890-4232-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48200

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

GC Semi VOA

Prep Batch: 48193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-2	TT-1 @ 5'	Total/NA	Solid	8015NM Prep	
880-25699-3	TT-1 @ 6'	Total/NA	Solid	8015NM Prep	
880-25699-4	TT-1 @ 7'	Total/NA	Solid	8015NM Prep	
880-25699-5	TT-1 @ 8'	Total/NA	Solid	8015NM Prep	
880-25699-6	TT-1 @ 9'	Total/NA	Solid	8015NM Prep	
880-25699-7	TT-1 @ 10'	Total/NA	Solid	8015NM Prep	
880-25699-8	TT-1 @ 10.5'	Total/NA	Solid	8015NM Prep	
880-25699-9	TT-1 @ 11'	Total/NA	Solid	8015NM Prep	
880-25699-10	TT-1 @ 11.5'	Total/NA	Solid	8015NM Prep	
880-25699-12	TT-2 @ 5'	Total/NA	Solid	8015NM Prep	
880-25699-13	TT-3 @ 4'	Total/NA	Solid	8015NM Prep	
880-25699-14	TT-3 @ 5'	Total/NA	Solid	8015NM Prep	
880-25699-15	TT-3 @ 6'	Total/NA	Solid	8015NM Prep	
880-25699-16	TT-3 @ 7'	Total/NA	Solid	8015NM Prep	
880-25699-17	TT-3 @ 8'	Total/NA	Solid	8015NM Prep	
880-25699-18	TT-3 @ 9'	Total/NA	Solid	8015NM Prep	
880-25699-19	TT-3 @ 10'	Total/NA	Solid	8015NM Prep	
880-25699-20	TT-3 @ 10.5'	Total/NA	Solid	8015NM Prep	
880-25699-22	TT-4 @ 5'	Total/NA	Solid	8015NM Prep	
880-25699-23	TT-4 @ 6'	Total/NA	Solid	8015NM Prep	
MB 880-48193/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48193/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48193/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25699-10 MS	TT-1 @ 11.5'	Total/NA	Solid	8015NM Prep	
880-25699-10 MSD	TT-1 @ 11.5'	Total/NA	Solid	8015NM Prep	

Prep Batch: 48200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-24	TT-4 @ 7'	Total/NA	Solid	8015NM Prep	
880-25699-25	TT-4 @ 8'	Total/NA	Solid	8015NM Prep	
880-25699-26	TT-4 @ 9'	Total/NA	Solid	8015NM Prep	
880-25699-27	TT-4 @ 10'	Total/NA	Solid	8015NM Prep	
880-25699-28	TT-4 @ 11'	Total/NA	Solid	8015NM Prep	
880-25699-29	TT-4 @ 11.5'	Total/NA	Solid	8015NM Prep	
880-25699-30	TT-4 @ 12'	Total/NA	Solid	8015NM Prep	
MB 880-48200/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48200/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48200/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4232-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4232-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-2	TT-1 @ 5'	Total/NA	Solid	8015 NM	
880-25699-3	TT-1 @ 6'	Total/NA	Solid	8015 NM	
880-25699-4	TT-1 @ 7'	Total/NA	Solid	8015 NM	
880-25699-5	TT-1 @ 8'	Total/NA	Solid	8015 NM	
880-25699-6	TT-1 @ 9'	Total/NA	Solid	8015 NM	
880-25699-7	TT-1 @ 10'	Total/NA	Solid	8015 NM	
880-25699-8	TT-1 @ 10.5'	Total/NA	Solid	8015 NM	
880-25699-9	TT-1 @ 11'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

GC Semi VOA (Continued)

Analysis Batch: 48378 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-10	TT-1 @ 11.5'	Total/NA	Solid	8015 NM	
880-25699-12	TT-2 @ 5'	Total/NA	Solid	8015 NM	
880-25699-13	TT-3 @ 4'	Total/NA	Solid	8015 NM	
880-25699-14	TT-3 @ 5'	Total/NA	Solid	8015 NM	
880-25699-15	TT-3 @ 6'	Total/NA	Solid	8015 NM	
880-25699-16	TT-3 @ 7'	Total/NA	Solid	8015 NM	
880-25699-17	TT-3 @ 8'	Total/NA	Solid	8015 NM	
880-25699-18	TT-3 @ 9'	Total/NA	Solid	8015 NM	
880-25699-19	TT-3 @ 10'	Total/NA	Solid	8015 NM	
880-25699-20	TT-3 @ 10.5'	Total/NA	Solid	8015 NM	
880-25699-22	TT-4 @ 5'	Total/NA	Solid	8015 NM	
880-25699-23	TT-4 @ 6'	Total/NA	Solid	8015 NM	
880-25699-24	TT-4 @ 7'	Total/NA	Solid	8015 NM	
880-25699-25	TT-4 @ 8'	Total/NA	Solid	8015 NM	
880-25699-26	TT-4 @ 9'	Total/NA	Solid	8015 NM	
880-25699-27	TT-4 @ 10'	Total/NA	Solid	8015 NM	
880-25699-28	TT-4 @ 11'	Total/NA	Solid	8015 NM	
880-25699-29	TT-4 @ 11.5'	Total/NA	Solid	8015 NM	
880-25699-30	TT-4 @ 12'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-24	TT-4 @ 7'	Soluble	Solid	DI Leach	
880-25699-25	TT-4 @ 8'	Soluble	Solid	DI Leach	
880-25699-26	TT-4 @ 9'	Soluble	Solid	DI Leach	
880-25699-27	TT-4 @ 10'	Soluble	Solid	DI Leach	
880-25699-28	TT-4 @ 11'	Soluble	Solid	DI Leach	
880-25699-29	TT-4 @ 11.5'	Soluble	Solid	DI Leach	
880-25699-30	TT-4 @ 12'	Soluble	Solid	DI Leach	
MB 880-48181/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48181/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48181/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25699-30 MS	TT-4 @ 12'	Soluble	Solid	DI Leach	
880-25699-30 MSD	TT-4 @ 12'	Soluble	Solid	DI Leach	

Leach Batch: 48183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-2	TT-1 @ 5'	Soluble	Solid	DI Leach	
880-25699-3	TT-1 @ 6'	Soluble	Solid	DI Leach	
880-25699-4	TT-1 @ 7'	Soluble	Solid	DI Leach	
880-25699-5	TT-1 @ 8'	Soluble	Solid	DI Leach	
880-25699-6	TT-1 @ 9'	Soluble	Solid	DI Leach	
880-25699-7	TT-1 @ 10'	Soluble	Solid	DI Leach	
880-25699-8	TT-1 @ 10.5'	Soluble	Solid	DI Leach	
880-25699-9	TT-1 @ 11'	Soluble	Solid	DI Leach	
880-25699-10	TT-1 @ 11.5'	Soluble	Solid	DI Leach	
880-25699-12	TT-2 @ 5'	Soluble	Solid	DI Leach	
880-25699-13	TT-3 @ 4'	Soluble	Solid	DI Leach	
880-25699-14	TT-3 @ 5'	Soluble	Solid	DI Leach	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

HPLC/IC (Continued)

Leach Batch: 48183 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-15	TT-3 @ 6'	Soluble	Solid	DI Leach	
880-25699-16	TT-3 @ 7'	Soluble	Solid	DI Leach	
880-25699-17	TT-3 @ 8'	Soluble	Solid	DI Leach	
880-25699-18	TT-3 @ 9'	Soluble	Solid	DI Leach	
880-25699-19	TT-3 @ 10'	Soluble	Solid	DI Leach	
880-25699-20	TT-3 @ 10.5'	Soluble	Solid	DI Leach	
880-25699-22	TT-4 @ 5'	Soluble	Solid	DI Leach	
880-25699-23	TT-4 @ 6'	Soluble	Solid	DI Leach	
MB 880-48183/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48183/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48183/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25699-2 MS	TT-1 @ 5'	Soluble	Solid	DI Leach	
880-25699-2 MSD	TT-1 @ 5'	Soluble	Solid	DI Leach	
880-25699-13 MS	TT-3 @ 4'	Soluble	Solid	DI Leach	
880-25699-13 MSD	TT-3 @ 4'	Soluble	Solid	DI Leach	

Analysis Batch: 48224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-24	TT-4 @ 7'	Soluble	Solid	300.0	48181
880-25699-25	TT-4 @ 8'	Soluble	Solid	300.0	48181
880-25699-26	TT-4 @ 9'	Soluble	Solid	300.0	48181
880-25699-27	TT-4 @ 10'	Soluble	Solid	300.0	48181
880-25699-28	TT-4 @ 11'	Soluble	Solid	300.0	48181
880-25699-29	TT-4 @ 11.5'	Soluble	Solid	300.0	48181
880-25699-30	TT-4 @ 12'	Soluble	Solid	300.0	48181
MB 880-48181/1-A	Method Blank	Soluble	Solid	300.0	48181
LCS 880-48181/2-A	Lab Control Sample	Soluble	Solid	300.0	48181
LCSD 880-48181/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48181
880-25699-30 MS	TT-4 @ 12'	Soluble	Solid	300.0	48181
880-25699-30 MSD	TT-4 @ 12'	Soluble	Solid	300.0	48181

Analysis Batch: 48264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-2	TT-1 @ 5'	Soluble	Solid	300.0	48183
880-25699-3	TT-1 @ 6'	Soluble	Solid	300.0	48183
880-25699-4	TT-1 @ 7'	Soluble	Solid	300.0	48183
880-25699-5	TT-1 @ 8'	Soluble	Solid	300.0	48183
880-25699-6	TT-1 @ 9'	Soluble	Solid	300.0	48183
880-25699-7	TT-1 @ 10'	Soluble	Solid	300.0	48183
880-25699-8	TT-1 @ 10.5'	Soluble	Solid	300.0	48183
880-25699-9	TT-1 @ 11'	Soluble	Solid	300.0	48183
880-25699-10	TT-1 @ 11.5'	Soluble	Solid	300.0	48183
880-25699-12	TT-2 @ 5'	Soluble	Solid	300.0	48183
880-25699-13	TT-3 @ 4'	Soluble	Solid	300.0	48183
880-25699-14	TT-3 @ 5'	Soluble	Solid	300.0	48183
880-25699-15	TT-3 @ 6'	Soluble	Solid	300.0	48183
880-25699-16	TT-3 @ 7'	Soluble	Solid	300.0	48183
880-25699-17	TT-3 @ 8'	Soluble	Solid	300.0	48183
880-25699-18	TT-3 @ 9'	Soluble	Solid	300.0	48183
880-25699-19	TT-3 @ 10'	Soluble	Solid	300.0	48183
880-25699-20	TT-3 @ 10.5'	Soluble	Solid	300.0	48183

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

HPLC/IC (Continued)

Analysis Batch: 48264 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25699-22	TT-4 @ 5'	Soluble	Solid	300.0	48183
880-25699-23	TT-4 @ 6'	Soluble	Solid	300.0	48183
MB 880-48183/1-A	Method Blank	Soluble	Solid	300.0	48183
LCS 880-48183/2-A	Lab Control Sample	Soluble	Solid	300.0	48183
LCSD 880-48183/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48183
880-25699-2 MS	TT-1 @ 5'	Soluble	Solid	300.0	48183
880-25699-2 MSD	TT-1 @ 5'	Soluble	Solid	300.0	48183
880-25699-13 MS	TT-3 @ 4'	Soluble	Solid	300.0	48183
880-25699-13 MSD	TT-3 @ 4'	Soluble	Solid	300.0	48183

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-1 @ 5'
Date Collected: 03/08/23 09:05
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48205	03/09/23 11:30	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/18/23 18:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	48171	03/10/23 01:21	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 09:56	CH	EET MID

Client Sample ID: TT-1 @ 6'
Date Collected: 03/08/23 09:10
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48308	03/10/23 11:06	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/18/23 19:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	48171	03/10/23 01:43	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 10:15	CH	EET MID

Client Sample ID: TT-1 @ 7'
Date Collected: 03/08/23 09:15
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48308	03/10/23 11:06	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/18/23 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	48171	03/10/23 02:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 10:21	CH	EET MID

Client Sample ID: TT-1 @ 8'
Date Collected: 03/08/23 09:20
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48205	03/09/23 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48323	03/11/23 05:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/13/23 18:25	SM	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-1 @ 8'
Date Collected: 03/08/23 09:20
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 22:52	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 10:27	CH	EET MID

Client Sample ID: TT-1 @ 9'
Date Collected: 03/08/23 09:30
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48205	03/09/23 11:30	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	48323	03/11/23 07:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/13/23 18:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/10/23 00:17	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 10:33	CH	EET MID

Client Sample ID: TT-1 @ 10'
Date Collected: 03/08/23 09:40
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48205	03/09/23 11:30	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	48323	03/11/23 07:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/13/23 18:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/10/23 00:38	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 10:52	CH	EET MID

Client Sample ID: TT-1 @ 10.5'
Date Collected: 03/08/23 09:50
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48205	03/09/23 11:30	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	48323	03/11/23 08:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/13/23 18:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 23:13	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-1 @ 10.5'

Lab Sample ID: 880-25699-8
Matrix: Solid
Date Collected: 03/08/23 09:50
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 10:58	CH	EET MID

Client Sample ID: TT-1 @ 11'

Lab Sample ID: 880-25699-9
Matrix: Solid
Date Collected: 03/08/23 10:00
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48205	03/09/23 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48323	03/11/23 05:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/13/23 18:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 23:34	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 11:04	CH	EET MID

Client Sample ID: TT-1 @ 11.5'

Lab Sample ID: 880-25699-10
Matrix: Solid
Date Collected: 03/08/23 10:10
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48205	03/09/23 11:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48323	03/11/23 06:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/13/23 18:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 21:47	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 11:10	CH	EET MID

Client Sample ID: TT-2 @ 5'

Lab Sample ID: 880-25699-12
Matrix: Solid
Date Collected: 03/08/23 10:45
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48205	03/09/23 11:30	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	48323	03/11/23 10:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/13/23 18:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/09/23 23:56	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 11:16	CH	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-3 @ 4'

Lab Sample ID: 880-25699-13
Matrix: Solid
Date Collected: 03/08/23 11:05
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48308	03/10/23 11:06	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/18/23 19:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	48171	03/10/23 02:47	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 11:23	CH	EET MID

Client Sample ID: TT-3 @ 5'

Lab Sample ID: 880-25699-14
Matrix: Solid
Date Collected: 03/08/23 11:10
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48308	03/10/23 11:06	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/18/23 20:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	48171	03/10/23 03:09	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 11:41	CH	EET MID

Client Sample ID: TT-3 @ 6'

Lab Sample ID: 880-25699-15
Matrix: Solid
Date Collected: 03/08/23 11:15
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48308	03/10/23 11:06	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/18/23 20:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	48171	03/10/23 03:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 11:47	CH	EET MID

Client Sample ID: TT-3 @ 7'

Lab Sample ID: 880-25699-16
Matrix: Solid
Date Collected: 03/08/23 11:25
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48308	03/10/23 11:06	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/18/23 20:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-3 @ 7'
Date Collected: 03/08/23 11:25
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		10	1 uL	1 uL	48171	03/10/23 03:52	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 12:06	CH	EET MID

Client Sample ID: TT-3 @ 8'
Date Collected: 03/08/23 11:35
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48308	03/10/23 11:06	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/18/23 21:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.031 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	48171	03/10/23 04:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 12:12	CH	EET MID

Client Sample ID: TT-3 @ 9'
Date Collected: 03/08/23 11:45
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	48308	03/10/23 11:06	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/18/23 21:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	48171	03/10/23 04:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 12:18	CH	EET MID

Client Sample ID: TT-3 @ 10'
Date Collected: 03/08/23 11:55
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48617	03/14/23 14:47	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/19/23 07:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	48171	03/10/23 04:57	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-3 @ 10'

Lab Sample ID: 880-25699-19
Matrix: Solid
Date Collected: 03/08/23 11:55
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 12:24	CH	EET MID

Client Sample ID: TT-3 @ 10.5'

Lab Sample ID: 880-25699-20
Matrix: Solid
Date Collected: 03/08/23 12:10
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48205	03/09/23 11:30	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	48323	03/11/23 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/13/23 18:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48171	03/10/23 01:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 12:30	CH	EET MID

Client Sample ID: TT-4 @ 5'

Lab Sample ID: 880-25699-22
Matrix: Solid
Date Collected: 03/08/23 13:35
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48617	03/14/23 14:47	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/19/23 08:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	48171	03/10/23 05:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 12:37	CH	EET MID

Client Sample ID: TT-4 @ 6'

Lab Sample ID: 880-25699-23
Matrix: Solid
Date Collected: 03/08/23 13:40
Date Received: 03/09/23 08:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48617	03/14/23 14:47	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48814	03/19/23 08:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48193	03/09/23 10:13	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	48171	03/10/23 05:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48183	03/09/23 09:28	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48264	03/10/23 12:43	CH	EET MID

Eurofins Midland

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-4 @ 7'
Date Collected: 03/08/23 13:45
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	48248	03/09/23 15:49	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	48914	03/20/23 10:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/20/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48200	03/09/23 10:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/10/23 03:30	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48181	03/09/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48224	03/09/23 14:40	SMC	EET MID

Client Sample ID: TT-4 @ 8'
Date Collected: 03/08/23 13:55
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48248	03/09/23 15:49	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	48914	03/20/23 10:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/20/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48200	03/09/23 10:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/10/23 03:52	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48181	03/09/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48224	03/09/23 16:18	SMC	EET MID

Client Sample ID: TT-4 @ 9'
Date Collected: 03/08/23 14:05
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48248	03/09/23 15:49	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	48914	03/20/23 11:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/20/23 12:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48200	03/09/23 10:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/10/23 04:14	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48181	03/09/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48224	03/09/23 16:22	SMC	EET MID

Client Sample ID: TT-4 @ 10'
Date Collected: 03/08/23 14:20
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48617	03/14/23 14:47	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	48814	03/19/23 08:54	MNR	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-4 @ 10'
Date Collected: 03/08/23 14:20
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	48951	03/20/23 08:52	MNR	EET MID
Total/NA	Analysis	8021B		500	5 mL	5 mL	48949	03/20/23 15:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48200	03/09/23 10:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/10/23 04:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48181	03/09/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48224	03/09/23 16:27	SMC	EET MID

Client Sample ID: TT-4 @ 11'
Date Collected: 03/08/23 14:30
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48617	03/14/23 14:47	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	48814	03/19/23 09:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48200	03/09/23 10:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/10/23 04:57	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48181	03/09/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48224	03/09/23 16:32	SMC	EET MID

Client Sample ID: TT-4 @ 11.5'
Date Collected: 03/08/23 14:40
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	48750	03/16/23 12:22	MNR	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	48814	03/18/23 04:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48200	03/09/23 10:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/10/23 05:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48181	03/09/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48224	03/09/23 16:37	SMC	EET MID

Client Sample ID: TT-4 @ 12'
Date Collected: 03/08/23 14:50
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48750	03/16/23 12:22	MNR	EET MID
Total/NA	Analysis	8021B		250	5 mL	5 mL	48814	03/18/23 04:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48555	03/19/23 16:17	SM	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Client Sample ID: TT-4 @ 12'

Date Collected: 03/08/23 14:50
Date Received: 03/09/23 08:18

Lab Sample ID: 880-25699-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			48378	03/10/23 18:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48200	03/09/23 10:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48173	03/10/23 05:40	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48181	03/09/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48224	03/09/23 16:42	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: TRC Solutions, Inc.
Project/Site: HEP-Hobbs Station-TK5202

Job ID: 880-25699-1
SDG: Hobbs Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-25699-2	TT-1 @ 5'	Solid	03/08/23 09:05	03/09/23 08:18	5'
880-25699-3	TT-1 @ 6'	Solid	03/08/23 09:10	03/09/23 08:18	6'
880-25699-4	TT-1 @ 7'	Solid	03/08/23 09:15	03/09/23 08:18	7'
880-25699-5	TT-1 @ 8'	Solid	03/08/23 09:20	03/09/23 08:18	8'
880-25699-6	TT-1 @ 9'	Solid	03/08/23 09:30	03/09/23 08:18	9'
880-25699-7	TT-1 @ 10'	Solid	03/08/23 09:40	03/09/23 08:18	10'
880-25699-8	TT-1 @ 10.5'	Solid	03/08/23 09:50	03/09/23 08:18	10.5'
880-25699-9	TT-1 @ 11'	Solid	03/08/23 10:00	03/09/23 08:18	11'
880-25699-10	TT-1 @ 11.5'	Solid	03/08/23 10:10	03/09/23 08:18	11.5'
880-25699-12	TT-2 @ 5'	Solid	03/08/23 10:45	03/09/23 08:18	5'
880-25699-13	TT-3 @ 4'	Solid	03/08/23 11:05	03/09/23 08:18	4'
880-25699-14	TT-3 @ 5'	Solid	03/08/23 11:10	03/09/23 08:18	5'
880-25699-15	TT-3 @ 6'	Solid	03/08/23 11:15	03/09/23 08:18	6'
880-25699-16	TT-3 @ 7'	Solid	03/08/23 11:25	03/09/23 08:18	7'
880-25699-17	TT-3 @ 8'	Solid	03/08/23 11:35	03/09/23 08:18	8'
880-25699-18	TT-3 @ 9'	Solid	03/08/23 11:45	03/09/23 08:18	9'
880-25699-19	TT-3 @ 10'	Solid	03/08/23 11:55	03/09/23 08:18	10'
880-25699-20	TT-3 @ 10.5'	Solid	03/08/23 12:10	03/09/23 08:18	10.5'
880-25699-22	TT-4 @ 5'	Solid	03/08/23 13:35	03/09/23 08:18	5'
880-25699-23	TT-4 @ 6'	Solid	03/08/23 13:40	03/09/23 08:18	6'
880-25699-24	TT-4 @ 7'	Solid	03/08/23 13:45	03/09/23 08:18	7'
880-25699-25	TT-4 @ 8'	Solid	03/08/23 13:55	03/09/23 08:18	8'
880-25699-26	TT-4 @ 9'	Solid	03/08/23 14:05	03/09/23 08:18	9'
880-25699-27	TT-4 @ 10'	Solid	03/08/23 14:20	03/09/23 08:18	10'
880-25699-28	TT-4 @ 11'	Solid	03/08/23 14:30	03/09/23 08:18	11'
880-25699-29	TT-4 @ 11.5'	Solid	03/08/23 14:40	03/09/23 08:18	11.5'
880-25699-30	TT-4 @ 12'	Solid	03/08/23 14:50	03/09/23 08:18	12'

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 256099

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Project Manager:	Russell Sebring	Bill to: (if different)	
Company Name:	TRC	Company Name:	
Address:	10 Desta Dr #130 E	Address:	
City, State ZIP:	Midland TX 79705	City, State ZIP:	
Phone:	432.250.4465	Email:	RSebring@trcco-panies.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name:	HEP-Hobbs Station TK5802	Turn Around	
Project Number:		☐ Routine ☑ Rush	
Project Location	Hobbs Station	Due Date	2 day
Sampler's Name:	Russell Sebring	TAT starts the day received by the lab, if received by 4.30pm	
PO #			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR6	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.3	
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	2.5	
Total Containers:		Corrected Temperature:	2.2	

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX	TPH	Chlorides		Hold	Sample Comments
TT-1 @4'	S	3.8.23	900	4'	G	1	✓	✓	✓	RS	✓	402
TT-1 @5'			905	5'		1	✓	✓	✓			
TT-1 @6'			910	6'		1	✓	✓	✓			
TT-1 @7'			915	7'		1	✓	✓	✓			
TT-1 @8'			920	8'		1	✓	✓	✓			
TT-1 @9'			930	9'		1	✓	✓	✓			
TT-1 @10'			940	10'		1	✓	✓	✓			
TT-1 @10.5'			950	10.5'		1	✓	✓	✓			
TT-1 @ 11'			1000	11'		1	✓	✓	✓			
TT-1 @ 11.5'			1010	11.5'		1	✓	✓	✓			

880-25699 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb ... V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3/9/23 8:18	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 251099

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Project Manager	Russell Sebring	Bill to. (if different)	
Company Name	TRC	Company Name	
Address	10 Desta Dr. #130E	Address.	
City, State ZIP	Midland TX 79705	City, State ZIP	
Phone	432.250.4465	Email	RSebring@TRCcompanies.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables. EDD ☐ ADaPT ☐ Other:

Project Name	HEP TX 5202	Turn Around	
Project Number		☐ Routine ☑ Rush	
Project Location:	Hobbs Station	Due Date	2Day
Sampler's Name	Russell Sebring	TAT starts the day received by the lab, if received by 4:30pm	
PO #			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID	DLB
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	-0.3
Sample Custody Seals:	Yes No (N/A)	Temperature Reading	2.5
Total Containers:		Corrected Temperature	2.2

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2SO_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX	TPH	Chlorides	4 Hold	Sample Comments
TT-2@4'	S	3.8.23	1035	4'	G	1						
TT-2@5'			1045	5'		1						
TT-3@4'			1105	4'		1						
TT-3@5'			1110	5'		1						
TT-3@6'			1115	6'		1						
TT-3@7'			1125	7'		1						
TT-3@8'			1135	8'		1						
TT-3@9'			1145	9'		1						
TT-3@10'			1155	10'		1						
TT-3@10.5'			1210	10.5'		1						

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3/9/23 9:15	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 454499

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Project Manager:	Russell Sebring	Bill to: (if different)	
Company Name:	TRC	Company Name:	
Address:	10 Desta Dr. #130E	Address:	
City, State ZIP:	Midland TX 79705	City, State ZIP:	
Phone:	432.250.4465	Email	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name:	HEP TR 5202	Turn Around	
Project Number:		☐ Routine ☑ Rush	
Project Location	Hobbs Station	Due Date	2 Day
Sampler's Name:	Russell Sebring	TAT starts the day received by the lab, if received by 4.30pm	
PO #			

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice:	Yes (No)
Samples Received Intact:	(Yes) No	Thermometer ID:	TR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.3
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	2.5
Total Containers.		Corrected Temperature:	2.2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX	TPH	Chlorides	Hold	Sample Comments
TT-4@4'	S	3.8.23	1330	4	G	1						
TT-4@5'			1335	5		1						
TT-4@6'			1340	6		1						
TT-4@7'			1345	7		1						
TT-4@8'			1350	8		1						
TT-4@9'			1405	9		1						
TT-4@10'			1420	10		1						
TT-4@11'			1430	11		1						
TT-4@11.5'			1440	11.5		1						
TT-4@12'			1450	12		1						

Preservative Codes

None NO — DI Water H_2O
Cool Cool — MeOH Me
HCL HC — HNO_3 HN
H_2SO_4 H_2 — NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			3/9/23 8:19	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: TRC Solutions, Inc.

Job Number: 880-25699-1
SDG Number: Hobbs Station

Login Number: 25699
List Number: 1
Creator: Teel, Brianna

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

TRC

Analytical Data Review Checklist

Site:	Hobbs Station Tank 5202	**Laboratory:**	Eurofins Midland
Location:	Hobbs, NM	**Lab Report #:**	880-25699-1
Client Name:	HEP	**Reviewer:**	A. Eljuri
Project #:	528833	**Peer Reviewer:**	L. Denly
		Review Date:	9/11/2023

Analytical Method(s):	**Matrices Sampled:**	**Sample Collection Date(s):**
BTEX by Method SW846 8021B; TPH (GRO, DRO, ORO, and Total) by Method 8015B NM; Chloride by EPA 300.0	Soil	March 8, 2023

Sampling Objective(s):

Collect confirmation soil samples at a release site.

Sample IDs (List IDs or attach COC):

Refer to data package sample summary.

	Review Item or Question	Y	N	NA	Comments
Chain-of-Custody and Data Completeness					
1	Was COC appropriately completed?	X			
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	X			
4	Are results reported for all analytical methods requested?	X			The laboratory reported Total TPH and Total BTEX (solid), which are not offered for accreditation.
5	Are results reported for all samples submitted for analysis?	X			
6	Were the requested analytical methods used?	X			
7	Are results reported for all target analytes, but no additional analytes?	X			
8	**SOIL/SEDIMENT ONLY:** Were soil/sediment results reported on a dry weight basis?		X		The site is regulated under the New Mexico Oil Conservation District and reporting results on a dry weight basis is not a project requirement.
9	If requested, were detected results below reporting limit (i.e., "J" values) reported?			X	
10	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			

TRC

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments
Sample Preservation					
11a	Did samples arrive at the laboratory appropriately preserved?			X	
11b	Was the cooler temperature between 0-6°C?	X			
11c	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?			X	
11d	**SOIL/SEDIMENT ONLY:** Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?		X		Soil samples were collected in unpreserved bulk jars, which is an acceptable collection method for BTEX and TPH analyses for the New Mexico Oil Conservation District.
12	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
13	Were any issues noted by the laboratory upon receipt?		X		
14a	**AIR ONLY:** Were canisters received with an acceptable vacuum?			X	
14b	**AIR ONLY:** Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Holding Times					
15	Were sample preparation and analysis holding time requirements met?	X			
Reporting Limits					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			All non-detect results had reporting limits below project criteria.
17	Were dilutions performed? If so, note sample(s) and parameters(s) affected and the dilution factor(s).	X			TT-1 @ 5', TT-1 @ 6', TT-1 @ 7', TT-3 @ 4', TT-3 @ 5', TT-3 @ 6', TT-3 @ 7', TT-3 @ 8', TT-3 @ 9', TT-3 @ 10', TT-4 @ 5', and TT-4 @ 6': BTEX 500-fold TT-4 @ 11.5' and TT-4 @ 12': BTEX 250-fold TT-1 @ 9', TT-1 @ 10', TT-1 @ 10.5', TT-2 @ 5', TT-3 @ 10.5', TT-4 @ 7', TT-4 @ 8', TT-4 @ 9', and TT-4 @ 11': BTEX 100-fold TT-1 @ 5', TT-3 @ 6', and TT-3 @ 7': TPH GRO/DRO/ORO 10-fold TT-1 @ 6', TT-1 @ 7', TT-3 @ 4', TT-3 @ 5', TT-3 @ 8', TT-3 @ 9', TT-3 @ 10', TT-4 @ 5', and TT-4 @ 6': TPH GRO/DRO/ORO 5-fold TT-4 @ 10': BTEX (except toluene) 100-fold and toluene at 500-fold
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?		X		

TRC

Analytical Data Review Checklist

Review Item or Question		Y	N	NA	Comments
QC Results					
Blanks					
19	Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).			X	
22	Are there any potential false positive results based on questions 19 and/or 21?		X		
Laboratory Control Spikes					
23	Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples.		X		Total xylenes and TPH ORO are not reported in any LCS or LCSD. In analysis batch 48800, the LCSD recovery for benzene (66%) was below the laboratory-specified limits (70-130%). However, this batch is not associated with any project samples, so there is no impact on data usability due to this issue.
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples.	X			
Matrix Spikes					
26	Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.		X		MS/MSDs were performed on samples TT-1 @ 11.5' for TPH GRO/DRO and samples TT-4 @ 12', TT-1 @ 5', and TT-3 @ 4' for chloride. MS/MSDs were also performed on a non-project samples; non-project sample MS/MSD results were not evaluated during this review. The MS/MSD %Rs of chloride performed on samples TT-4 @ 12' (116%/115%), TT-1 @ 5' (112%/111%), and TT-3 @ 4' (114%/114%) were above the laboratory-defined recovery limits (90-110%). The detected chloride results in all samples in this data package may be estimated, biased high.
27	Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was spiked.	X			

TRC

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments
Surrogates					
28	**ORGANIC ANALYSES ONLY:** Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.		X		In sample TT-1 @ 5', surrogates 4-bromofluorobenzene (33%) and 1,4-difluorobenzene (29%) recovered below the laboratory-specified limits (70-130%) in the BTEX analysis and surrogates 1-chlorooctane (207%) and o-terphenyl (162%) recovered above the laboratory-specified limits (70-130%) in the TPH analysis. Therefore, the BTEX and Total BTEX results may be considered estimated, biased low in sample TT-1 @ 5'. There is no impact on data usability due to the TPH surrogate recoveries since the sample was diluted 10-fold. In sample TT-1 @ 6', surrogate 1,4-difluorobenzene (5%) recovered significantly below (<10%) the laboratory-defined limits (70-130%) in the BTEX analysis and surrogate 1-chlorooctane (174%) recovered above the laboratory-defined limits (70-130%) in the TPH analysis. Therefore, the detected BTEX (not benzene) and Total BTEX results may be considered estimated, biased low, **the nondetect benzene result is not usable for project objectives,** and the detected TPH GRO and TPH DRO results may be considered estimated, biased high in sample TT-1 @ 6'. In samples TT-1 @ 7', TT-3 @ 5', TT-3 @ 9', TT-4 @ 5', and TT-4 @ 6', surrogate chlorooctane (131%, 158%, 164%, 149%, and 136%, respectively) recovered above the laboratory-defined limit (70-130%) in the TPH analyses. Therefore, detected TPH GRO, TPH DRO, and Total TPH results in samples TT-1 @ 7', TT-3 @ 5', TT-3 @ 9', TT-4 @ 5', and TT-4 @ 6' may be considered estimated, biased high. In sample TT-3 @ 6', surrogates 1-chlorooctane (207%) and o-terphenyl (174%) recovered above the laboratory-defined limit (70-130%) in the TPH analysis. There is no impact on data usability due to the TPH surrogate recoveries since the sample was diluted 10-fold. In sample TT-3 @ 7', surrogate 1-chlorooctane (177%) recovered above the laboratory-defined limit (70-130%) in the TPH analysis. There is no impact on data usability due to the TPH surrogate recovery since the sample was diluted 10-fold. In samples TT-4 @ 7', TT-4 @ 8', TT-4 @ 9', TT-4 @ 10', TT-4 @ 11', TT-4 @ 11.5', and TT-4 @ 12', surrogates 1-chlorooctane (26%, 28%, 27%, 26%, 26%, 25%, and 27%, respectively) and o-terphenyl (23%, 26%, 24%, 23%, 23%, 23%, and 25%, respectively) recovered below the laboratory-defined limit (70-130%) in the TPH analyses. Therefore, the detected TPH GRO, TPH DRO, TPH ORO and Total TPH results may be estimated, biased low in samples TT-4 @ 7', TT-4 @ 8', TT-4 @ 9', TT-4 @10', TT-4 @ 11', TT-4 @ 11.5', and TT-4 @ 12'. In sample TT-4 @ 11.5', surrogate 1,4-difluorobenzene (67%) recovered below the laboratory-defined limit (70-130%) in the BTEX analysis. Therefore, the detected BTEX and Total BTEX results in sample TT-4 @ 11.5' may be considered estimated, biased low. In sample TT-4 @ 10', surrogate 4-bromofluorobenzene (143%) in the 500-fold dilution recovered above the laboratory-defined limit (70-130%) for toluene. Therefore, the detected toluene and Total BTEX results in sample TT-4 @ 10' may be considered estimated, biased high.

TRC

Analytical Data Review Checklist

Review Item or Question		Y	N	NA	Comments
Duplicates					
29	Are laboratory duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	
30	Were field duplicate criteria met? If no, list analytes affected, the RPD and/or absolute difference (as applicable), and the associated samples. NOTE: RPD ≤ 50% for soil samples when results are >3x the reporting limit; otherwise, AbsD > 2x reporting limit.			X	
Do the Data Make Sense?					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences) that have not already been addressed above? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		X		
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
33	Do any results look questionable? If yes, ASK THE LAB.		X		
34	Has the EDD been compared to the lab report?			X	
Additional Comments:					

Notes:
Reference: EPA Superfund Contract Laboratory Program (CLP) National Functional Guidelines (NFGs) for Data Review (November, 2020)

Abbreviations:
AbsD = Absolute Difference
BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes (and isomers)
COC = Chain-of-Custody
DRO = Diesel Range Organics
EDD = Electronic Data Deliverable
GRO = Gasoline Range Organics
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MRO = Motor Range Organics
MS/MSD = Matrix Spike / Matrix Spike Duplicate
NELAP = National Environmental Laboratory Accreditation Program
ORO = Oil Range Organics
QAPP = Quality Assurance Project Plan
QC = Quality Control
%R = Percent Recovery
RPD = Relative Percent Difference = 100% x |(A-B)/((A+B)/2)|
TPH = Total Petroleum Hydrocarbon

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Russell Sebring
TRC Solutions, Inc.
10 Desta Drive
Suite #130E
Midland, Texas 79705

Generated 9/15/2023 1:46:53 PM Revision 1

JOB DESCRIPTION

HEP : Hobbs Station TK 5202

JOB NUMBER

880-28372-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
9/15/2023 1:46:53 PM
Revision 1

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Laboratory Job ID: 880-28372-1

Table of Contents

Definitions/Glossary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-28372-1

REVISION

The report being provided is a revision of the original report sent on 5/17/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID edits.

Receipt
The samples were received on 5/12/2023 1:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC/MS VOA
Method 8260C: Surrogate recovery for the following samples were outside the upper control limit: Trip Blank (880-28372-40) and (860-48897-O-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed. Surrogate 4-Bromofluorobenzene is not associated with target analytes.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (860-49010-C-2-A) and (860-49010-C-2-A MS). Elevated reporting limits (RLs) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-103260 and analytical batch 860-103359 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 860-103367 recovered outside control limits for the following analytes: m-Xylene & p-Xylene, and Toluene.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-102802 and analytical batch 860-103367 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: Sample is a bulk jar.TT-5 @ 5' (880-28372-16), TT-5 @ 6' (880-28372-17), TT-5 @ 7' (880-28372-18), TT-5 @ 8' (880-28372-19), TT-5 @ 9' (880-28372-20), TT-5 @ 10' (880-28372-21), TT-5 @ 11' (880-28372-22), TT-5 @ 12' (880-28372-23), TT-5 @ 13' (880-28372-24), TT-6 @ 7' (880-28372-30), TT-6 @ 8' (880-28372-31), TT-6 @ 9' (880-28372-32), TT-6 @ 10' (880-28372-33) and TT-6 @ 11' (880-28372-34)

Method 8260C: The following sample was diluted due to the nature of the sample matrix: (860-48960-C-13-A MS). Elevated reporting limits (RLs) are provided. Sample prepped fro ma methanol vial.

Method 8260C: Sample received in a bulk jar.TT-6 @ 12' (880-28372-35), TT-6 @ 13' (880-28372-36), TT-6 @ 14' (880-28372-37), TT-6 @ 15' (880-28372-38) and TT-6 @ 16' (880-28372-39)

Method 8260C: The following samples were diluted due to being debris: (860-48633-A-2-D) and (860-48633-A-2-D MS). Elevated reporting limits (RL) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-102802 and analytical batch 860-103493 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: Sample is a bulk jar.TT-5 @ 14' (880-28372-25), TT-5 @ 15' (880-28372-26), TT-5 @ 16' (880-28372-27), TT-6 @ 5' (880-28372-28) and TT-6 @ 6' (880-28372-29)

Case Narrative

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (860-48764-D-7-B) and (860-48764-D-7-B MS). Elevated reporting limits (RLs) are provided. Sample was prepped from methanol vial.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: TT-2 @ 7' (880-28372-1), TT-2 @ 8' (880-28372-2), TT-2 @ 9' (880-28372-3), TT-2 @ 10' (880-28372-4), TT-2 @ 11' (880-28372-5), TT-2 @ 13' (880-28372-7), TT-2 @ 14' (880-28372-8), TT-2 @ 15' (880-28372-9) and TT-2 @ 16' (880-28372-10). Elevated reporting limits (RLs) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: (820-8447-D-1-A) and (820-8447-D-1-A MS). Elevated reporting limits (RLs) are provided. Sample prepped from a methanol vial.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: TT-4 @ 13' (880-28372-11), TT-4 @ 14' (880-28372-12), TT-4 @ 15' (880-28372-13), TT-4 @ 16' (880-28372-14) and Dup-01 (880-28372-15). Elevated reporting limits (RLs) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: TT-2 @ 11' (880-28372-5), TT-4 @ 14' (880-28372-12), TT-4 @ 15' (880-28372-13) and TT-4 @ 16' (880-28372-14). Elevated reporting limits (RLs) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: (820-8447-D-8-A) and (820-8447-D-8-A MS). Elevated reporting limits (RLs) are provided. Sample prepped from a methanol vial.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: TT-2 @ 8' (880-28372-2), TT-2 @ 9' (880-28372-3), TT-2 @ 10' (880-28372-4) and TT-2 @ 16' (880-28372-10). Elevated reporting limits (RLs) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (860-48964-B-1-A) and (860-48964-B-1-A MS). Elevated reporting limits (RLs) are provided. Sample was prepped from methanol vial.

Method 8260C: The following sample was diluted due to the nature of the sample matrix: TT-2 @ 12' (880-28372-6). Elevated reporting limits (RLs) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: TT-2 @ 15' (880-28372-9). Elevated reporting limits (RLs) are provided. Sample was prepped with methanol from a bulk jar.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53306 and analytical batch 880-53318 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-53306/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: TT-5 @ 10' (880-28372-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TT-5 @ 11' (880-28372-22), TT-5 @ 12' (880-28372-23), TT-5 @ 13' (880-28372-24), TT-5 @ 14' (880-28372-25), TT-5 @ 15' (880-28372-26), TT-5 @ 16' (880-28372-27), TT-6 @ 5' (880-28372-28), TT-6 @ 6' (880-28372-29) and TT-6 @ 7' (880-28372-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1 (Continued)

Laboratory: Eurofins Midland (Continued)

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TT-6 @ 8' (880-28372-31), TT-6 @ 9' (880-28372-32), TT-6 @ 10' (880-28372-33), TT-6 @ 11' (880-28372-34), TT-6 @ 12' (880-28372-35), TT-6 @ 13' (880-28372-36), TT-6 @ 14' (880-28372-37), TT-6 @ 15' (880-28372-38) and TT-6 @ 16' (880-28372-39). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53305 and analytical batch 880-53316 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: TT-5 @ 8' (880-28372-19). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TT-2 @ 7' (880-28372-1), TT-2 @ 8' (880-28372-2), TT-2 @ 9' (880-28372-3), TT-2 @ 12' (880-28372-6) and TT-2 @ 14' (880-28372-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: TT-2 @ 10' (880-28372-4), TT-2 @ 11' (880-28372-5), TT-2 @ 15' (880-28372-9), TT-2 @ 16' (880-28372-10), TT-4 @ 13' (880-28372-11), TT-4 @ 14' (880-28372-12), TT-4 @ 15' (880-28372-13), TT-4 @ 16' (880-28372-14) and Dup-01 (880-28372-15). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-2 @ 7'

Lab Sample ID: 880-28372-1
Matrix: Solid
Date Collected: 05/11/23 07:45
Date Received: 05/12/23 13:49
Sample Depth: 7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.201	U	0.201		mg/Kg		05/16/23 09:51	05/16/23 21:11	200
Toluene	**5.53**	***1**	1.01		mg/Kg		05/16/23 09:51	05/16/23 21:11	200
Ethylbenzene	**10.6**		0.201		mg/Kg		05/16/23 09:51	05/16/23 21:11	200
m,p-Xylenes	**12.4**	***1**	0.402		mg/Kg		05/16/23 09:51	05/16/23 21:11	200
o-Xylene	**6.29**		0.201		mg/Kg		05/16/23 09:51	05/16/23 21:11	200
Xylenes, Total	**18.7**		0.402		mg/Kg		05/16/23 09:51	05/16/23 21:11	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*56 - 150*	*05/16/23 09:51*	*05/16/23 21:11*	*200*
4-Bromofluorobenzene (Surr)	*107*		*68 - 152*	*05/16/23 09:51*	*05/16/23 21:11*	*200*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*05/16/23 09:51*	*05/16/23 21:11*	*200*
Toluene-d8 (Surr)	*102*		*70 - 130*	*05/16/23 09:51*	*05/16/23 21:11*	*200*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**34.8**		0.402		mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4530**		250		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1270**		250		mg/Kg		05/12/23 21:07	05/13/23 23:10	5
Diesel Range Organics (Over C10-C28)	**3260**		250		mg/Kg		05/12/23 21:07	05/13/23 23:10	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		05/12/23 21:07	05/13/23 23:10	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*156*	*S1+*	*70 - 130*	*05/12/23 21:07*	*05/13/23 23:10*	*5*
o-Terphenyl	*111*		*70 - 130*	*05/12/23 21:07*	*05/13/23 23:10*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**285**		4.97		mg/Kg			05/13/23 22:50	1

Client Sample ID: TT-2 @ 8'

Lab Sample ID: 880-28372-2
Matrix: Solid
Date Collected: 05/11/23 07:50
Date Received: 05/12/23 13:49
Sample Depth: 8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.403**		0.0496		mg/Kg		05/16/23 09:51	05/16/23 20:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*56 - 150*	*05/16/23 09:51*	*05/16/23 20:44*	*50*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*05/16/23 09:51*	*05/16/23 20:44*	*50*
Dibromofluoromethane (Surr)	*92*		*53 - 142*	*05/16/23 09:51*	*05/16/23 20:44*	*50*
Toluene-d8 (Surr)	*108*		*70 - 130*	*05/16/23 09:51*	*05/16/23 20:44*	*50*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-2 @ 8'

Lab Sample ID: 880-28372-2
Matrix: Solid
Date Collected: 05/11/23 07:50
Date Received: 05/12/23 13:49
Sample Depth: 8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	18.7		2.48		mg/Kg		05/16/23 09:51	05/17/23 14:37	500
Ethylbenzene	27.1		0.496		mg/Kg		05/16/23 09:51	05/17/23 14:37	500
m,p-Xylenes	35.4		0.992		mg/Kg		05/16/23 09:51	05/17/23 14:37	500
o-Xylene	15.9		0.496		mg/Kg		05/16/23 09:51	05/17/23 14:37	500
Xylenes, Total	51.3		0.992		mg/Kg		05/16/23 09:51	05/17/23 14:37	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*05/16/23 09:51*	*05/17/23 14:37*	*500*
4-Bromofluorobenzene (Surr)	*107*		*68 - 152*	*05/16/23 09:51*	*05/17/23 14:37*	*500*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*05/16/23 09:51*	*05/17/23 14:37*	*500*
Toluene-d8 (Surr)	*99*		*70 - 130*	*05/16/23 09:51*	*05/17/23 14:37*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	97.5		0.992		mg/Kg			05/17/23 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5270		250		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1440		250		mg/Kg		05/12/23 21:07	05/13/23 23:31	5
Diesel Range Organics (Over C10-C28)	3830		250		mg/Kg		05/12/23 21:07	05/13/23 23:31	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		05/12/23 21:07	05/13/23 23:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*153*	*S1+*	*70 - 130*	*05/12/23 21:07*	*05/13/23 23:31*	*5*
o-Terphenyl	*106*		*70 - 130*	*05/12/23 21:07*	*05/13/23 23:31*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2360		25.2		mg/Kg			05/13/23 23:06	5

Client Sample ID: TT-2 @ 9'

Lab Sample ID: 880-28372-3
Matrix: Solid
Date Collected: 05/11/23 07:55
Date Received: 05/12/23 13:49
Sample Depth: 9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.04		0.0495		mg/Kg		05/16/23 09:51	05/16/23 17:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*80*		*56 - 150*	*05/16/23 09:51*	*05/16/23 17:00*	*50*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*	*05/16/23 09:51*	*05/16/23 17:00*	*50*
Dibromofluoromethane (Surr)	*80*		*53 - 142*	*05/16/23 09:51*	*05/16/23 17:00*	*50*
Toluene-d8 (Surr)	*102*		*70 - 130*	*05/16/23 09:51*	*05/16/23 17:00*	*50*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-2 @ 9'

Lab Sample ID: 880-28372-3
Matrix: Solid
Date Collected: 05/11/23 07:55
Date Received: 05/12/23 13:49
Sample Depth: 9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	38.2		2.48		mg/Kg		05/16/23 09:51	05/17/23 14:57	500
Ethylbenzene	46.8		0.495		mg/Kg		05/16/23 09:51	05/17/23 14:57	500
m,p-Xylenes	60.0		0.990		mg/Kg		05/16/23 09:51	05/17/23 14:57	500
o-Xylene	26.3		0.495		mg/Kg		05/16/23 09:51	05/17/23 14:57	500
Xylenes, Total	86.3		0.990		mg/Kg		05/16/23 09:51	05/17/23 14:57	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*05/16/23 09:51*	*05/17/23 14:57*	*500*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*05/16/23 09:51*	*05/17/23 14:57*	*500*
Dibromofluoromethane (Surr)	*88*		*53 - 142*	*05/16/23 09:51*	*05/17/23 14:57*	*500*
Toluene-d8 (Surr)	*99*		*70 - 130*	*05/16/23 09:51*	*05/17/23 14:57*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	172		0.990		mg/Kg			05/17/23 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6870		249		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2520		249		mg/Kg		05/12/23 21:07	05/13/23 23:53	5
Diesel Range Organics (Over C10-C28)	4350		249		mg/Kg		05/12/23 21:07	05/13/23 23:53	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		05/12/23 21:07	05/13/23 23:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*05/12/23 21:07*	*05/13/23 23:53*	*5*
o-Terphenyl	*106*		*70 - 130*	*05/12/23 21:07*	*05/13/23 23:53*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2430		25.1		mg/Kg			05/13/23 23:11	5

Client Sample ID: TT-2 @ 10'

Lab Sample ID: 880-28372-4
Matrix: Solid
Date Collected: 05/11/23 08:00
Date Received: 05/12/23 13:49
Sample Depth: 10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0501	U	0.0501		mg/Kg		05/16/23 09:51	05/16/23 17:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*	*05/16/23 09:51*	*05/16/23 17:33*	*50*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*	*05/16/23 09:51*	*05/16/23 17:33*	*50*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*05/16/23 09:51*	*05/16/23 17:33*	*50*
Toluene-d8 (Surr)	*106*		*70 - 130*	*05/16/23 09:51*	*05/16/23 17:33*	*50*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-2 @ 10'

Lab Sample ID: 880-28372-4
Matrix: Solid
Date Collected: 05/11/23 08:00
Date Received: 05/12/23 13:49
Sample Depth: 10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	11.7		2.51		mg/Kg		05/16/23 09:51	05/17/23 15:18	500
Ethylbenzene	21.0		0.501		mg/Kg		05/16/23 09:51	05/17/23 15:18	500
m,p-Xylenes	25.2		1.00		mg/Kg		05/16/23 09:51	05/17/23 15:18	500
o-Xylene	11.7		0.501		mg/Kg		05/16/23 09:51	05/17/23 15:18	500
Xylenes, Total	36.9		1.00		mg/Kg		05/16/23 09:51	05/17/23 15:18	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*05/16/23 09:51*	*05/17/23 15:18*	*500*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*	*05/16/23 09:51*	*05/17/23 15:18*	*500*
Dibromofluoromethane (Surr)	*92*		*53 - 142*	*05/16/23 09:51*	*05/17/23 15:18*	*500*
Toluene-d8 (Surr)	*99*		*70 - 130*	*05/16/23 09:51*	*05/17/23 15:18*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	69.6		1.00		mg/Kg			05/17/23 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3950		50.0		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1120		50.0		mg/Kg		05/12/23 21:07	05/14/23 01:39	1
Diesel Range Organics (Over C10-C28)	2830		50.0		mg/Kg		05/12/23 21:07	05/14/23 01:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/14/23 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*05/12/23 21:07*	*05/14/23 01:39*	*1*
o-Terphenyl	*76*		*70 - 130*	*05/12/23 21:07*	*05/14/23 01:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	771		4.97		mg/Kg			05/13/23 23:17	1

Client Sample ID: TT-2 @ 11'

Lab Sample ID: 880-28372-5
Matrix: Solid
Date Collected: 05/11/23 08:05
Date Received: 05/12/23 13:49
Sample Depth: 11

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.142		0.0495		mg/Kg		05/16/23 09:51	05/16/23 18:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*05/16/23 09:51*	*05/16/23 18:00*	*50*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*05/16/23 09:51*	*05/16/23 18:00*	*50*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*05/16/23 09:51*	*05/16/23 18:00*	*50*
Toluene-d8 (Surr)	*112*		*70 - 130*	*05/16/23 09:51*	*05/16/23 18:00*	*50*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-2 @ 11'

Lab Sample ID: 880-28372-5
Matrix: Solid
Date Collected: 05/11/23 08:05
Date Received: 05/12/23 13:49
Sample Depth: 11

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	26.2		2.48		mg/Kg		05/16/23 09:51	05/17/23 15:13	500
Ethylbenzene	38.4		0.495		mg/Kg		05/16/23 09:51	05/17/23 15:13	500
m,p-Xylenes	43.0		0.990		mg/Kg		05/16/23 09:51	05/17/23 15:13	500
o-Xylene	18.9		0.495		mg/Kg		05/16/23 09:51	05/17/23 15:13	500
Xylenes, Total	61.9		0.990		mg/Kg		05/16/23 09:51	05/17/23 15:13	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*56 - 150*	*05/16/23 09:51*	*05/17/23 15:13*	*500*
4-Bromofluorobenzene (Surr)	*90*		*68 - 152*	*05/16/23 09:51*	*05/17/23 15:13*	*500*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*05/16/23 09:51*	*05/17/23 15:13*	*500*
Toluene-d8 (Surr)	*99*		*70 - 130*	*05/16/23 09:51*	*05/17/23 15:13*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	127		0.990		mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6900		249		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2520		249		mg/Kg		05/12/23 21:07	05/14/23 03:05	5
Diesel Range Organics (Over C10-C28)	4380		249		mg/Kg		05/12/23 21:07	05/14/23 03:05	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		05/12/23 21:07	05/14/23 03:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*05/12/23 21:07*	*05/14/23 03:05*	*5*
o-Terphenyl	*97*		*70 - 130*	*05/12/23 21:07*	*05/14/23 03:05*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	307		5.01		mg/Kg			05/13/23 23:22	1

Client Sample ID: TT-2 @ 12'

Lab Sample ID: 880-28372-6
Matrix: Solid
Date Collected: 05/11/23 08:10
Date Received: 05/12/23 13:49
Sample Depth: 12

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.198	U	0.198		mg/Kg		05/16/23 09:51	05/17/23 17:19	200
Toluene	3.32		0.990		mg/Kg		05/16/23 09:51	05/17/23 17:19	200
Ethylbenzene	8.35		0.198		mg/Kg		05/16/23 09:51	05/17/23 17:19	200
m,p-Xylenes	12.0		0.396		mg/Kg		05/16/23 09:51	05/17/23 17:19	200
o-Xylene	5.14		0.198		mg/Kg		05/16/23 09:51	05/17/23 17:19	200
Xylenes, Total	17.1		0.396		mg/Kg		05/16/23 09:51	05/17/23 17:19	200

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-2 @ 12'
Lab Sample ID: 880-28372-6
Date Collected: 05/11/23 08:10
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 12

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		56 - 150	05/16/23 09:51	05/17/23 17:19	200
4-Bromofluorobenzene (Surr)	93		68 - 152	05/16/23 09:51	05/17/23 17:19	200
Dibromofluoromethane (Surr)	91		53 - 142	05/16/23 09:51	05/17/23 17:19	200
Toluene-d8 (Surr)	95		70 - 130	05/16/23 09:51	05/17/23 17:19	200

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**28.8**		0.396	mg/Kg			05/17/23 18:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2630**		49.8	mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**854**		49.8	mg/Kg		05/12/23 21:07	05/14/23 00:14	1
Diesel Range Organics (Over C10-C28)	**1780**		49.8	mg/Kg		05/12/23 21:07	05/14/23 00:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/12/23 21:07	05/14/23 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130	05/12/23 21:07	05/14/23 00:14	1
o-Terphenyl	89		70 - 130	05/12/23 21:07	05/14/23 00:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**182**		4.95	mg/Kg			05/13/23 23:38	1

Client Sample ID: TT-2 @ 13'
Lab Sample ID: 880-28372-7
Date Collected: 05/11/23 08:15
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 13

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0501	U	0.0501	mg/Kg		05/16/23 09:51	05/16/23 18:55	50
Toluene	**0.532**	***1**	0.251	mg/Kg		05/16/23 09:51	05/16/23 18:55	50
Ethylbenzene	**2.49**		0.0501	mg/Kg		05/16/23 09:51	05/16/23 18:55	50
m,p-Xylenes	**3.40**	***1**	0.100	mg/Kg		05/16/23 09:51	05/16/23 18:55	50
o-Xylene	**1.83**		0.0501	mg/Kg		05/16/23 09:51	05/16/23 18:55	50
Xylenes, Total	**5.23**		0.100	mg/Kg		05/16/23 09:51	05/16/23 18:55	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		56 - 150	05/16/23 09:51	05/16/23 18:55	50
4-Bromofluorobenzene (Surr)	99		68 - 152	05/16/23 09:51	05/16/23 18:55	50
Dibromofluoromethane (Surr)	96		53 - 142	05/16/23 09:51	05/16/23 18:55	50
Toluene-d8 (Surr)	100		70 - 130	05/16/23 09:51	05/16/23 18:55	50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**8.25**		0.100	mg/Kg			05/17/23 16:28	1

Eurofins Midland

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-2 @ 13'
Lab Sample ID: 880-28372-7
Date Collected: 05/11/23 08:15
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 13

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1970**		49.8		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**363**		49.8		mg/Kg		05/12/23 21:07	05/14/23 01:18	1
Diesel Range Organics (Over C10-C28)	**1610**		49.8		mg/Kg		05/12/23 21:07	05/14/23 01:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/12/23 21:07	05/14/23 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*05/12/23 21:07*	*05/14/23 01:18*	*1*
o-Terphenyl	*84*		*70 - 130*	*05/12/23 21:07*	*05/14/23 01:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**178**		4.96		mg/Kg			05/13/23 23:43	1

Client Sample ID: TT-2 @ 14'
Lab Sample ID: 880-28372-8
Date Collected: 05/11/23 08:20
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 14

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0503	U	0.0503		mg/Kg		05/16/23 09:51	05/16/23 16:22	50
Toluene	<0.252	U *1	0.252		mg/Kg		05/16/23 09:51	05/16/23 16:22	50
Ethylbenzene	**0.0507**		0.0503		mg/Kg		05/16/23 09:51	05/16/23 16:22	50
m,p-Xylenes	<0.101	U *1	0.101		mg/Kg		05/16/23 09:51	05/16/23 16:22	50
o-Xylene	<0.0503	U	0.0503		mg/Kg		05/16/23 09:51	05/16/23 16:22	50
Xylenes, Total	<0.101	U	0.101		mg/Kg		05/16/23 09:51	05/16/23 16:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*	*05/16/23 09:51*	*05/16/23 16:22*	*50*
4-Bromofluorobenzene (Surr)	*89*		*68 - 152*	*05/16/23 09:51*	*05/16/23 16:22*	*50*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*05/16/23 09:51*	*05/16/23 16:22*	*50*
Toluene-d8 (Surr)	*98*		*70 - 130*	*05/16/23 09:51*	*05/16/23 16:22*	*50*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.101	U	0.101		mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**530**		50.0		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/14/23 00:36	1
Diesel Range Organics (Over C10-C28)	**530**		50.0		mg/Kg		05/12/23 21:07	05/14/23 00:36	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-2 @ 14' Lab Sample ID: 880-28372-8

Date Collected: 05/11/23 08:20 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 14

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/14/23 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*147*	*S1+*	*70 - 130*	*05/12/23 21:07*	*05/14/23 00:36*	*1*
o-Terphenyl	*114*		*70 - 130*	*05/12/23 21:07*	*05/14/23 00:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.7**		5.05		mg/Kg			05/13/23 23:49	1

Client Sample ID: TT-2 @ 15' Lab Sample ID: 880-28372-9

Date Collected: 05/11/23 08:25 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0762**		0.0502		mg/Kg		05/16/23 09:51	05/16/23 19:22	50
Toluene	**4.07**	***1**	0.251		mg/Kg		05/16/23 09:51	05/16/23 19:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*56 - 150*	*05/16/23 09:51*	*05/16/23 19:22*	*50*
4-Bromofluorobenzene (Surr)	*94*		*68 - 152*	*05/16/23 09:51*	*05/16/23 19:22*	*50*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*05/16/23 09:51*	*05/16/23 19:22*	*50*
Toluene-d8 (Surr)	*99*		*70 - 130*	*05/16/23 09:51*	*05/16/23 19:22*	*50*

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	**12.7**		0.201		mg/Kg		05/16/23 09:51	05/17/23 17:47	200
m,p-Xylenes	**16.3**		0.402		mg/Kg		05/16/23 09:51	05/17/23 17:47	200
o-Xylene	**7.44**		0.201		mg/Kg		05/16/23 09:51	05/17/23 17:47	200
Xylenes, Total	**23.7**		0.402		mg/Kg		05/16/23 09:51	05/17/23 17:47	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*	*05/16/23 09:51*	*05/17/23 17:47*	*200*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*05/16/23 09:51*	*05/17/23 17:47*	*200*
Dibromofluoromethane (Surr)	*90*		*53 - 142*	*05/16/23 09:51*	*05/17/23 17:47*	*200*
Toluene-d8 (Surr)	*90*		*70 - 130*	*05/16/23 09:51*	*05/17/23 17:47*	*200*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**40.6**		0.402		mg/Kg			05/17/23 18:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3600**		49.9		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	**1210**		49.9		mg/Kg		05/12/23 21:07	05/14/23 02:00	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-2 @ 15'
Lab Sample ID: 880-28372-9
Date Collected: 05/11/23 08:25
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 15

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	**2390**		49.9		mg/Kg		05/12/23 21:07	05/14/23 02:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/23 21:07	05/14/23 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*154*	*S1+*	*70 - 130*	*05/12/23 21:07*	*05/14/23 02:00*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/12/23 21:07*	*05/14/23 02:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**226**		5.05		mg/Kg			05/13/23 23:54	1

Client Sample ID: TT-2 @ 16'
Lab Sample ID: 880-28372-10
Date Collected: 05/11/23 08:30
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.229**		0.0495		mg/Kg		05/16/23 09:51	05/16/23 19:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*56 - 150*	*05/16/23 09:51*	*05/16/23 19:49*	*50*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*05/16/23 09:51*	*05/16/23 19:49*	*50*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*05/16/23 09:51*	*05/16/23 19:49*	*50*
Toluene-d8 (Surr)	*104*		*70 - 130*	*05/16/23 09:51*	*05/16/23 19:49*	*50*

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**9.19**		2.48		mg/Kg		05/16/23 09:51	05/17/23 15:38	500
Ethylbenzene	**19.0**		0.495		mg/Kg		05/16/23 09:51	05/17/23 15:38	500
m,p-Xylenes	**22.2**		0.990		mg/Kg		05/16/23 09:51	05/17/23 15:38	500
o-Xylene	**10.1**		0.495		mg/Kg		05/16/23 09:51	05/17/23 15:38	500
Xylenes, Total	**32.3**		0.990		mg/Kg		05/16/23 09:51	05/17/23 15:38	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*05/16/23 09:51*	*05/17/23 15:38*	*500*
4-Bromofluorobenzene (Surr)	*106*		*68 - 152*	*05/16/23 09:51*	*05/17/23 15:38*	*500*
Dibromofluoromethane (Surr)	*90*		*53 - 142*	*05/16/23 09:51*	*05/17/23 15:38*	*500*
Toluene-d8 (Surr)	*100*		*70 - 130*	*05/16/23 09:51*	*05/17/23 15:38*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**60.7**		0.990		mg/Kg			05/17/23 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3990**		49.9		mg/Kg			05/15/23 16:59	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-2 @ 16'
Lab Sample ID: 880-28372-10
Date Collected: 05/11/23 08:30
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 16

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1470		49.9		mg/Kg		05/12/23 21:07	05/14/23 02:22	1
Diesel Range Organics (Over C10-C28)	2520		49.9		mg/Kg		05/12/23 21:07	05/14/23 02:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/23 21:07	05/14/23 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*05/12/23 21:07*	*05/14/23 02:22*	*1*
o-Terphenyl	*76*		*70 - 130*	*05/12/23 21:07*	*05/14/23 02:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.4		4.98		mg/Kg			05/14/23 00:00	1

Client Sample ID: TT-4 @ 13'
Lab Sample ID: 880-28372-11
Date Collected: 05/11/23 09:35
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 13

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.14		0.502		mg/Kg		05/16/23 09:51	05/17/23 15:34	500
Toluene	46.0		2.51		mg/Kg		05/16/23 09:51	05/17/23 15:34	500
Ethylbenzene	39.9		0.502		mg/Kg		05/16/23 09:51	05/17/23 15:34	500
m,p-Xylenes	43.1		1.00		mg/Kg		05/16/23 09:51	05/17/23 15:34	500
o-Xylene	22.0		0.502		mg/Kg		05/16/23 09:51	05/17/23 15:34	500
Xylenes, Total	65.1		1.00		mg/Kg		05/16/23 09:51	05/17/23 15:34	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*	*05/16/23 09:51*	*05/17/23 15:34*	*500*
4-Bromofluorobenzene (Surr)	*94*		*68 - 152*	*05/16/23 09:51*	*05/17/23 15:34*	*500*
Dibromofluoromethane (Surr)	*93*		*53 - 142*	*05/16/23 09:51*	*05/17/23 15:34*	*500*
Toluene-d8 (Surr)	*105*		*70 - 130*	*05/16/23 09:51*	*05/17/23 15:34*	*500*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	155		1.00		mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7050		249		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2770		249		mg/Kg		05/12/23 21:07	05/14/23 03:26	5
Diesel Range Organics (Over C10-C28)	4280		249		mg/Kg		05/12/23 21:07	05/14/23 03:26	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		05/12/23 21:07	05/14/23 03:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*05/12/23 21:07*	*05/14/23 03:26*	*5*

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-4 @ 13'
Lab Sample ID: 880-28372-11
Date Collected: 05/11/23 09:35
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 13

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	97		70 - 130	05/12/23 21:07	05/14/23 03:26	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.8		5.03	mg/Kg			05/14/23 00:05	1

Client Sample ID: TT-4 @ 14'
Lab Sample ID: 880-28372-12
Date Collected: 05/11/23 09:40
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 14

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.61		0.100	mg/Kg		05/16/23 09:51	05/17/23 12:30	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		56 - 150	05/16/23 09:51	05/17/23 12:30	100
4-Bromofluorobenzene (Surr)	99		68 - 152	05/16/23 09:51	05/17/23 12:30	100
Dibromofluoromethane (Surr)	96		53 - 142	05/16/23 09:51	05/17/23 12:30	100
Toluene-d8 (Surr)	108		70 - 130	05/16/23 09:51	05/17/23 12:30	100

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	32.7		5.02	mg/Kg		05/16/23 09:51	05/17/23 13:43	1000
Ethylbenzene	33.8		1.00	mg/Kg		05/16/23 09:51	05/17/23 13:43	1000
m,p-Xylenes	42.4		2.01	mg/Kg		05/16/23 09:51	05/17/23 13:43	1000
o-Xylene	17.9		1.00	mg/Kg		05/16/23 09:51	05/17/23 13:43	1000
Xylenes, Total	60.3		2.01	mg/Kg		05/16/23 09:51	05/17/23 13:43	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		56 - 150	05/16/23 09:51	05/17/23 13:43	1000
4-Bromofluorobenzene (Surr)	93		68 - 152	05/16/23 09:51	05/17/23 13:43	1000
Dibromofluoromethane (Surr)	90		53 - 142	05/16/23 09:51	05/17/23 13:43	1000
Toluene-d8 (Surr)	96		70 - 130	05/16/23 09:51	05/17/23 13:43	1000

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	130		2.01	mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6430		249	mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2340		249	mg/Kg		05/12/23 21:07	05/14/23 03:47	5
Diesel Range Organics (Over C10-C28)	4090		249	mg/Kg		05/12/23 21:07	05/14/23 03:47	5
Oil Range Organics (Over C28-C36)	<249	U	249	mg/Kg		05/12/23 21:07	05/14/23 03:47	5

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-4 @ 14'

Lab Sample ID: 880-28372-12
Matrix: Solid
Date Collected: 05/11/23 09:40
Date Received: 05/12/23 13:49
Sample Depth: 14

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	05/12/23 21:07	05/14/23 03:47	5
o-Terphenyl	96		70 - 130	05/12/23 21:07	05/14/23 03:47	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.0		5.01	mg/Kg			05/14/23 00:21	1

Client Sample ID: TT-4 @ 15'

Lab Sample ID: 880-28372-13
Matrix: Solid
Date Collected: 05/11/23 09:45
Date Received: 05/12/23 13:49
Sample Depth: 15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.63		0.100	mg/Kg		05/16/23 09:51	05/17/23 12:51	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		56 - 150	05/16/23 09:51	05/17/23 12:51	100
4-Bromofluorobenzene (Surr)	102		68 - 152	05/16/23 09:51	05/17/23 12:51	100
Dibromofluoromethane (Surr)	95		53 - 142	05/16/23 09:51	05/17/23 12:51	100
Toluene-d8 (Surr)	117		70 - 130	05/16/23 09:51	05/17/23 12:51	100

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	21.5		5.02	mg/Kg		05/16/23 09:51	05/17/23 14:07	1000
Ethylbenzene	20.4		1.00	mg/Kg		05/16/23 09:51	05/17/23 14:07	1000
m,p-Xylenes	22.1		2.01	mg/Kg		05/16/23 09:51	05/17/23 14:07	1000
o-Xylene	12.3		1.00	mg/Kg		05/16/23 09:51	05/17/23 14:07	1000
Xylenes, Total	34.4		2.01	mg/Kg		05/16/23 09:51	05/17/23 14:07	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		56 - 150	05/16/23 09:51	05/17/23 14:07	1000
4-Bromofluorobenzene (Surr)	98		68 - 152	05/16/23 09:51	05/17/23 14:07	1000
Dibromofluoromethane (Surr)	92		53 - 142	05/16/23 09:51	05/17/23 14:07	1000
Toluene-d8 (Surr)	95		70 - 130	05/16/23 09:51	05/17/23 14:07	1000

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	77.9		2.01	mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6940		250	mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2810		250	mg/Kg		05/12/23 21:07	05/14/23 04:08	5
Diesel Range Organics (Over C10-C28)	4130		250	mg/Kg		05/12/23 21:07	05/14/23 04:08	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		05/12/23 21:07	05/14/23 04:08	5

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-4 @ 15'

Lab Sample ID: 880-28372-13
Matrix: Solid
Date Collected: 05/11/23 09:45
Date Received: 05/12/23 13:49
Sample Depth: 15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	05/12/23 21:07	05/14/23 04:08	5
o-Terphenyl	110		70 - 130	05/12/23 21:07	05/14/23 04:08	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.2		4.97	mg/Kg			05/14/23 00:26	1

Client Sample ID: TT-4 @ 16'

Lab Sample ID: 880-28372-14
Matrix: Solid
Date Collected: 05/11/23 09:50
Date Received: 05/12/23 13:49
Sample Depth: 16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.762		0.201	mg/Kg		05/16/23 09:51	05/17/23 13:20	200
Toluene	24.1		1.01	mg/Kg		05/16/23 09:51	05/17/23 13:20	200
o-Xylene	20.6		0.201	mg/Kg		05/16/23 09:51	05/17/23 13:20	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		56 - 150	05/16/23 09:51	05/17/23 13:20	200
4-Bromofluorobenzene (Surr)	93		68 - 152	05/16/23 09:51	05/17/23 13:20	200
Dibromofluoromethane (Surr)	90		53 - 142	05/16/23 09:51	05/17/23 13:20	200
Toluene-d8 (Surr)	107		70 - 130	05/16/23 09:51	05/17/23 13:20	200

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	36.2		1.01	mg/Kg		05/16/23 09:51	05/17/23 14:50	1000
m,p-Xylenes	45.7		2.01	mg/Kg		05/16/23 09:51	05/17/23 14:50	1000
Xylenes, Total	66.8		2.01	mg/Kg		05/16/23 09:51	05/17/23 14:50	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		56 - 150	05/16/23 09:51	05/17/23 14:50	1000
4-Bromofluorobenzene (Surr)	90		68 - 152	05/16/23 09:51	05/17/23 14:50	1000
Dibromofluoromethane (Surr)	91		53 - 142	05/16/23 09:51	05/17/23 14:50	1000
Toluene-d8 (Surr)	101		70 - 130	05/16/23 09:51	05/17/23 14:50	1000

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	127		2.01	mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5060		49.9	mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1970		49.9	mg/Kg		05/12/23 21:07	05/14/23 02:43	1
Diesel Range Organics (Over C10-C28)	3090		49.9	mg/Kg		05/12/23 21:07	05/14/23 02:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/12/23 21:07	05/14/23 02:43	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-4 @ 16'
Lab Sample ID: 880-28372-14
Date Collected: 05/11/23 09:50
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 16

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	05/12/23 21:07	05/14/23 02:43	1
o-Terphenyl	74		70 - 130	05/12/23 21:07	05/14/23 02:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.0		4.96	mg/Kg			05/14/23 00:42	1

Client Sample ID: Dup-01
Lab Sample ID: 880-28372-15
Date Collected: 05/11/23 00:00
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 13

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.43		2.01	mg/Kg		05/16/23 09:51	05/17/23 14:29	2000
Toluene	43.3		10.1	mg/Kg		05/16/23 09:51	05/17/23 14:29	2000
Ethylbenzene	38.2		2.01	mg/Kg		05/16/23 09:51	05/17/23 14:29	2000
m,p-Xylenes	42.1		4.02	mg/Kg		05/16/23 09:51	05/17/23 14:29	2000
o-Xylene	21.0		2.01	mg/Kg		05/16/23 09:51	05/17/23 14:29	2000
Xylenes, Total	63.1		4.02	mg/Kg		05/16/23 09:51	05/17/23 14:29	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		56 - 150	05/16/23 09:51	05/17/23 14:29	2000
4-Bromofluorobenzene (Surr)	90		68 - 152	05/16/23 09:51	05/17/23 14:29	2000
Dibromofluoromethane (Surr)	92		53 - 142	05/16/23 09:51	05/17/23 14:29	2000
Toluene-d8 (Surr)	95		70 - 130	05/16/23 09:51	05/17/23 14:29	2000

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	148		4.02	mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7740		250	mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3000		250	mg/Kg		05/12/23 21:07	05/14/23 04:29	5
Diesel Range Organics (Over C10-C28)	4740		250	mg/Kg		05/12/23 21:07	05/14/23 04:29	5
Oil Range Organics (Over C28-C36)	<250	U	250	mg/Kg		05/12/23 21:07	05/14/23 04:29	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	148	S1+	70 - 130	05/12/23 21:07	05/14/23 04:29	5
o-Terphenyl	96		70 - 130	05/12/23 21:07	05/14/23 04:29	5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.7		5.03	mg/Kg			05/14/23 00:48	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-5 @ 5'
Lab Sample ID: 880-28372-16
Date Collected: 05/11/23 13:45
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 11:44	1
Toluene	<0.00500	U	0.00500		mg/Kg		05/16/23 09:51	05/16/23 11:44	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 11:44	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		05/16/23 09:51	05/16/23 11:44	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 11:44	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		05/16/23 09:51	05/16/23 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*05/16/23 09:51*	*05/16/23 11:44*	*1*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*	*05/16/23 09:51*	*05/16/23 11:44*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*05/16/23 09:51*	*05/16/23 11:44*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*05/16/23 09:51*	*05/16/23 11:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			05/17/23 15:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 20:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 20:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*05/12/23 21:07*	*05/13/23 20:40*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/12/23 21:07*	*05/13/23 20:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.9**		5.02		mg/Kg			05/14/23 00:53	1

Client Sample ID: TT-5 @ 6'
Lab Sample ID: 880-28372-17
Date Collected: 05/11/23 13:50
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		05/16/23 09:51	05/16/23 12:04	1
Toluene	<0.00495	U	0.00495		mg/Kg		05/16/23 09:51	05/16/23 12:04	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		05/16/23 09:51	05/16/23 12:04	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		05/16/23 09:51	05/16/23 12:04	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		05/16/23 09:51	05/16/23 12:04	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		05/16/23 09:51	05/16/23 12:04	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-5 @ 6'
Lab Sample ID: 880-28372-17
Date Collected: 05/11/23 13:50
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150	05/16/23 09:51	05/16/23 12:04	1
4-Bromofluorobenzene (Surr)	101		68 - 152	05/16/23 09:51	05/16/23 12:04	1
Dibromofluoromethane (Surr)	90		53 - 142	05/16/23 09:51	05/16/23 12:04	1
Toluene-d8 (Surr)	96		70 - 130	05/16/23 09:51	05/16/23 12:04	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198	mg/Kg			05/17/23 15:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/12/23 21:07	05/13/23 21:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/12/23 21:07	05/13/23 21:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/12/23 21:07	05/13/23 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	05/12/23 21:07	05/13/23 21:44	1
o-Terphenyl	99		70 - 130	05/12/23 21:07	05/13/23 21:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.8		4.99	mg/Kg			05/14/23 00:58	1

Client Sample ID: TT-5 @ 7'
Lab Sample ID: 880-28372-18
Date Collected: 05/11/23 13:55
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	mg/Kg		05/16/23 09:51	05/16/23 12:25	1
Toluene	<0.00502	U	0.00502	mg/Kg		05/16/23 09:51	05/16/23 12:25	1
Ethylbenzene	<0.00100	U	0.00100	mg/Kg		05/16/23 09:51	05/16/23 12:25	1
m,p-Xylenes	<0.00201	U	0.00201	mg/Kg		05/16/23 09:51	05/16/23 12:25	1
o-Xylene	<0.00100	U	0.00100	mg/Kg		05/16/23 09:51	05/16/23 12:25	1
Xylenes, Total	<0.00201	U	0.00201	mg/Kg		05/16/23 09:51	05/16/23 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		56 - 150	05/16/23 09:51	05/16/23 12:25	1
4-Bromofluorobenzene (Surr)	101		68 - 152	05/16/23 09:51	05/16/23 12:25	1
Dibromofluoromethane (Surr)	91		53 - 142	05/16/23 09:51	05/16/23 12:25	1
Toluene-d8 (Surr)	98		70 - 130	05/16/23 09:51	05/16/23 12:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201	mg/Kg			05/17/23 15:48	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-5 @ 7' Lab Sample ID: 880-28372-18

Date Collected: 05/11/23 13:55 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 7

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/12/23 21:07	05/13/23 22:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/23 21:07	05/13/23 22:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/23 21:07	05/13/23 22:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*05/12/23 21:07*	*05/13/23 22:05*	*1*
o-Terphenyl	*101*		*70 - 130*	*05/12/23 21:07*	*05/13/23 22:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.8**		4.98		mg/Kg			05/14/23 01:04	1

Client Sample ID: TT-5 @ 8' Lab Sample ID: 880-28372-19

Date Collected: 05/11/23 14:00 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00102	U	0.00102		mg/Kg		05/16/23 09:51	05/16/23 12:45	1
Toluene	<0.00509	U	0.00509		mg/Kg		05/16/23 09:51	05/16/23 12:45	1
Ethylbenzene	<0.00102	U	0.00102		mg/Kg		05/16/23 09:51	05/16/23 12:45	1
m,p-Xylenes	<0.00204	U	0.00204		mg/Kg		05/16/23 09:51	05/16/23 12:45	1
o-Xylene	<0.00102	U	0.00102		mg/Kg		05/16/23 09:51	05/16/23 12:45	1
Xylenes, Total	<0.00204	U	0.00204		mg/Kg		05/16/23 09:51	05/16/23 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*05/16/23 09:51*	*05/16/23 12:45*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*05/16/23 09:51*	*05/16/23 12:45*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*05/16/23 09:51*	*05/16/23 12:45*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*05/16/23 09:51*	*05/16/23 12:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00204	U	0.00204		mg/Kg			05/17/23 15:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 22:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 22:27	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-5 @ 8'
Lab Sample ID: 880-28372-19
Date Collected: 05/11/23 14:00
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 8

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*05/12/23 21:07*	*05/13/23 22:27*	*1*
o-Terphenyl	*108*		*70 - 130*	*05/12/23 21:07*	*05/13/23 22:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.4**		5.00		mg/Kg			05/14/23 01:09	1

Client Sample ID: TT-5 @ 9'
Lab Sample ID: 880-28372-20
Date Collected: 05/11/23 14:05
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		05/16/23 09:51	05/16/23 13:06	1
Toluene	<0.00496	U	0.00496		mg/Kg		05/16/23 09:51	05/16/23 13:06	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		05/16/23 09:51	05/16/23 13:06	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		05/16/23 09:51	05/16/23 13:06	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		05/16/23 09:51	05/16/23 13:06	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		05/16/23 09:51	05/16/23 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*56 - 150*	*05/16/23 09:51*	*05/16/23 13:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*05/16/23 09:51*	*05/16/23 13:06*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*05/16/23 09:51*	*05/16/23 13:06*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*05/16/23 09:51*	*05/16/23 13:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			05/17/23 15:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/15/23 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 22:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 22:48	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*05/12/23 21:07*	*05/13/23 22:48*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/12/23 21:07*	*05/13/23 22:48*	*1*

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-5 @ 9'
Lab Sample ID: 880-28372-20
Date Collected: 05/11/23 14:05 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 9

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		4.97		mg/Kg			05/14/23 01:14	1

Client Sample ID: TT-5 @ 10'
Lab Sample ID: 880-28372-21
Date Collected: 05/11/23 14:10 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		05/16/23 09:51	05/16/23 13:27	1
Toluene	<0.00495	U	0.00495		mg/Kg		05/16/23 09:51	05/16/23 13:27	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		05/16/23 09:51	05/16/23 13:27	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		05/16/23 09:51	05/16/23 13:27	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		05/16/23 09:51	05/16/23 13:27	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		05/16/23 09:51	05/16/23 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*05/16/23 09:51*	*05/16/23 13:27*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*	*05/16/23 09:51*	*05/16/23 13:27*	*1*
Dibromofluoromethane (Surr)	*92*		*53 - 142*	*05/16/23 09:51*	*05/16/23 13:27*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*05/16/23 09:51*	*05/16/23 13:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			05/17/23 15:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/13/23 20:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/13/23 20:40	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/13/23 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*05/12/23 21:11*	*05/13/23 20:40*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/13/23 20:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.7		4.97		mg/Kg			05/14/23 01:57	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-5 @ 11'
Lab Sample ID: 880-28372-22
Date Collected: 05/11/23 14:15
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 11

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 13:47	1
Toluene	<0.00504	U	0.00504		mg/Kg		05/16/23 09:51	05/16/23 13:47	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 13:47	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		05/16/23 09:51	05/16/23 13:47	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 13:47	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		05/16/23 09:51	05/16/23 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*05/16/23 09:51*	*05/16/23 13:47*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*05/16/23 09:51*	*05/16/23 13:47*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*	*05/16/23 09:51*	*05/16/23 13:47*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*05/16/23 09:51*	*05/16/23 13:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			05/17/23 15:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/13/23 21:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/13/23 21:44	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/13/23 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/13/23 21:44*	*1*
o-Terphenyl	*175*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/13/23 21:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48.8**		5.03		mg/Kg			05/14/23 02:13	1

Client Sample ID: TT-5 @ 12'
Lab Sample ID: 880-28372-23
Date Collected: 05/11/23 14:20
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 12

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 14:08	1
Toluene	<0.00502	U	0.00502		mg/Kg		05/16/23 09:51	05/16/23 14:08	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 14:08	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		05/16/23 09:51	05/16/23 14:08	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 14:08	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		05/16/23 09:51	05/16/23 14:08	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-5 @ 12'
Lab Sample ID: 880-28372-23
Date Collected: 05/11/23 14:20
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 12

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		56 - 150	05/16/23 09:51	05/16/23 14:08	1
4-Bromofluorobenzene (Surr)	100		68 - 152	05/16/23 09:51	05/16/23 14:08	1
Dibromofluoromethane (Surr)	92		53 - 142	05/16/23 09:51	05/16/23 14:08	1
Toluene-d8 (Surr)	97		70 - 130	05/16/23 09:51	05/16/23 14:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201	mg/Kg			05/17/23 15:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/12/23 21:11	05/13/23 22:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/12/23 21:11	05/13/23 22:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/12/23 21:11	05/13/23 22:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130	05/12/23 21:11	05/13/23 22:05	1
o-Terphenyl	148	S1+	70 - 130	05/12/23 21:11	05/13/23 22:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.3**		5.02	mg/Kg			05/14/23 02:18	1

Client Sample ID: TT-5 @ 13'
Lab Sample ID: 880-28372-24
Date Collected: 05/11/23 14:25
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 13

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	mg/Kg		05/16/23 09:51	05/16/23 14:29	1
Toluene	<0.00501	U	0.00501	mg/Kg		05/16/23 09:51	05/16/23 14:29	1
Ethylbenzene	<0.00100	U	0.00100	mg/Kg		05/16/23 09:51	05/16/23 14:29	1
m,p-Xylenes	<0.00200	U	0.00200	mg/Kg		05/16/23 09:51	05/16/23 14:29	1
o-Xylene	<0.00100	U	0.00100	mg/Kg		05/16/23 09:51	05/16/23 14:29	1
Xylenes, Total	<0.00200	U	0.00200	mg/Kg		05/16/23 09:51	05/16/23 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		56 - 150	05/16/23 09:51	05/16/23 14:29	1
4-Bromofluorobenzene (Surr)	100		68 - 152	05/16/23 09:51	05/16/23 14:29	1
Dibromofluoromethane (Surr)	91		53 - 142	05/16/23 09:51	05/16/23 14:29	1
Toluene-d8 (Surr)	98		70 - 130	05/16/23 09:51	05/16/23 14:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			05/17/23 16:31	1

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Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-5 @ 13'
Lab Sample ID: 880-28372-24
Date Collected: 05/11/23 14:25
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 13

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/13/23 22:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/13/23 22:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/13/23 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*05/12/23 21:11*	*05/13/23 22:27*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/13/23 22:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.7**		4.97		mg/Kg			05/14/23 03:01	1

Client Sample ID: TT-5 @ 14'
Lab Sample ID: 880-28372-25
Date Collected: 05/11/23 14:30
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 14

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		05/17/23 08:00	05/17/23 08:33	1
Toluene	<0.00495	U	0.00495		mg/Kg		05/17/23 08:00	05/17/23 08:33	1
Ethylbenzene	<0.000990	U	0.000990		mg/Kg		05/17/23 08:00	05/17/23 08:33	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		05/17/23 08:00	05/17/23 08:33	1
o-Xylene	<0.000990	U	0.000990		mg/Kg		05/17/23 08:00	05/17/23 08:33	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		05/17/23 08:00	05/17/23 08:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*	*05/17/23 08:00*	*05/17/23 08:33*	*1*
4-Bromofluorobenzene (Surr)	*88*		*68 - 152*	*05/17/23 08:00*	*05/17/23 08:33*	*1*
Dibromofluoromethane (Surr)	*92*		*53 - 142*	*05/17/23 08:00*	*05/17/23 08:33*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*05/17/23 08:00*	*05/17/23 08:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			05/17/23 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/13/23 22:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/13/23 22:48	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-5 @ 14' Lab Sample ID: 880-28372-25

Date Collected: 05/11/23 14:30 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 14

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/13/23 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*05/12/23 21:11*	*05/13/23 22:48*	*1*
o-Terphenyl	*147*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/13/23 22:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.5**		5.01		mg/Kg			05/14/23 02:24	1

Client Sample ID: TT-5 @ 15' Lab Sample ID: 880-28372-26

Date Collected: 05/11/23 14:35 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		05/17/23 08:00	05/17/23 09:00	1
Toluene	<0.00498	U	0.00498		mg/Kg		05/17/23 08:00	05/17/23 09:00	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		05/17/23 08:00	05/17/23 09:00	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		05/17/23 08:00	05/17/23 09:00	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		05/17/23 08:00	05/17/23 09:00	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		05/17/23 08:00	05/17/23 09:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*	*05/17/23 08:00*	*05/17/23 09:00*	*1*
4-Bromofluorobenzene (Surr)	*90*		*68 - 152*	*05/17/23 08:00*	*05/17/23 09:00*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*05/17/23 08:00*	*05/17/23 09:00*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*05/17/23 08:00*	*05/17/23 09:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			05/17/23 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/13/23 23:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/13/23 23:10	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/13/23 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/13/23 23:10*	*1*
o-Terphenyl	*167*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/13/23 23:10*	*1*

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-5 @ 15'
Lab Sample ID: 880-28372-26
Date Collected: 05/11/23 14:35 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 15

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.3		4.95		mg/Kg			05/14/23 02:29	1

Client Sample ID: TT-5 @ 16'
Lab Sample ID: 880-28372-27
Date Collected: 05/11/23 14:40 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		05/17/23 08:00	05/17/23 09:28	1
Toluene	<0.00502	U	0.00502		mg/Kg		05/17/23 08:00	05/17/23 09:28	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		05/17/23 08:00	05/17/23 09:28	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		05/17/23 08:00	05/17/23 09:28	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		05/17/23 08:00	05/17/23 09:28	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		05/17/23 08:00	05/17/23 09:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*	*05/17/23 08:00*	*05/17/23 09:28*	*1*
4-Bromofluorobenzene (Surr)	*88*		*68 - 152*	*05/17/23 08:00*	*05/17/23 09:28*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*05/17/23 08:00*	*05/17/23 09:28*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*05/17/23 08:00*	*05/17/23 09:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201		mg/Kg			05/17/23 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/13/23 23:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/13/23 23:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/13/23 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*05/12/23 21:11*	*05/13/23 23:31*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/13/23 23:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.9		4.96		mg/Kg			05/14/23 02:45	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-6 @ 5'
Lab Sample ID: 880-28372-28
Date Collected: 05/11/23 15:45
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 5

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		05/17/23 08:00	05/17/23 09:55	1
Toluene	<0.00501	U	0.00501		mg/Kg		05/17/23 08:00	05/17/23 09:55	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		05/17/23 08:00	05/17/23 09:55	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		05/17/23 08:00	05/17/23 09:55	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		05/17/23 08:00	05/17/23 09:55	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		05/17/23 08:00	05/17/23 09:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*	*05/17/23 08:00*	*05/17/23 09:55*	*1*
4-Bromofluorobenzene (Surr)	*91*		*68 - 152*	*05/17/23 08:00*	*05/17/23 09:55*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*	*05/17/23 08:00*	*05/17/23 09:55*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*05/17/23 08:00*	*05/17/23 09:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			05/17/23 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/13/23 23:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/13/23 23:53	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/13/23 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*05/12/23 21:11*	*05/13/23 23:53*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/13/23 23:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.9**		5.05		mg/Kg			05/14/23 02:50	1

Client Sample ID: TT-6 @ 6'
Lab Sample ID: 880-28372-29
Date Collected: 05/11/23 15:50
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		05/17/23 08:00	05/17/23 10:22	1
Toluene	<0.00505	U	0.00505		mg/Kg		05/17/23 08:00	05/17/23 10:22	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		05/17/23 08:00	05/17/23 10:22	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		05/17/23 08:00	05/17/23 10:22	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		05/17/23 08:00	05/17/23 10:22	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		05/17/23 08:00	05/17/23 10:22	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-6 @ 6'
Lab Sample ID: 880-28372-29
Date Collected: 05/11/23 15:50
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		56 - 150	05/17/23 08:00	05/17/23 10:22	1
4-Bromofluorobenzene (Surr)	93		68 - 152	05/17/23 08:00	05/17/23 10:22	1
Dibromofluoromethane (Surr)	95		53 - 142	05/17/23 08:00	05/17/23 10:22	1
Toluene-d8 (Surr)	95		70 - 130	05/17/23 08:00	05/17/23 10:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202	mg/Kg			05/17/23 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/12/23 21:11	05/14/23 00:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/12/23 21:11	05/14/23 00:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/12/23 21:11	05/14/23 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	05/12/23 21:11	05/14/23 00:14	1
o-Terphenyl	146	S1+	70 - 130	05/12/23 21:11	05/14/23 00:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.8**		5.05	mg/Kg			05/14/23 02:56	1

Client Sample ID: TT-6 @ 7'
Lab Sample ID: 880-28372-30
Date Collected: 05/11/23 15:55
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 7

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990	mg/Kg		05/16/23 09:51	05/16/23 15:34	1
Toluene	<0.00495	U	0.00495	mg/Kg		05/16/23 09:51	05/16/23 15:34	1
Ethylbenzene	<0.000990	U	0.000990	mg/Kg		05/16/23 09:51	05/16/23 15:34	1
m,p-Xylenes	<0.00198	U	0.00198	mg/Kg		05/16/23 09:51	05/16/23 15:34	1
o-Xylene	<0.000990	U	0.000990	mg/Kg		05/16/23 09:51	05/16/23 15:34	1
Xylenes, Total	<0.00198	U	0.00198	mg/Kg		05/16/23 09:51	05/16/23 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		56 - 150	05/16/23 09:51	05/16/23 15:34	1
4-Bromofluorobenzene (Surr)	102		68 - 152	05/16/23 09:51	05/16/23 15:34	1
Dibromofluoromethane (Surr)	91		53 - 142	05/16/23 09:51	05/16/23 15:34	1
Toluene-d8 (Surr)	96		70 - 130	05/16/23 09:51	05/16/23 15:34	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198	mg/Kg			05/17/23 16:28	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-6 @ 7'
Lab Sample ID: 880-28372-30
Date Collected: 05/11/23 15:55
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 7

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 00:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 00:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/14/23 00:36*	*1*
o-Terphenyl	*166*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/14/23 00:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**58.2**		4.98		mg/Kg			05/14/23 03:06	1

Client Sample ID: TT-6 @ 8'
Lab Sample ID: 880-28372-31
Date Collected: 05/11/23 16:00
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 8

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 15:54	1
Toluene	<0.00505	U	0.00505		mg/Kg		05/16/23 09:51	05/16/23 15:54	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 15:54	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		05/16/23 09:51	05/16/23 15:54	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 15:54	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		05/16/23 09:51	05/16/23 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*05/16/23 09:51*	*05/16/23 15:54*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*05/16/23 09:51*	*05/16/23 15:54*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*	*05/16/23 09:51*	*05/16/23 15:54*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*05/16/23 09:51*	*05/16/23 15:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			05/17/23 16:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/14/23 01:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/14/23 01:18	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-6 @ 8'
Lab Sample ID: 880-28372-31
Matrix: Solid
Date Collected: 05/11/23 16:00
Date Received: 05/12/23 13:49
Sample Depth: 8

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/14/23 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*05/12/23 21:11*	*05/14/23 01:18*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/14/23 01:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.8**		5.03		mg/Kg			05/14/23 03:12	1

Client Sample ID: TT-6 @ 9'
Lab Sample ID: 880-28372-32
Matrix: Solid
Date Collected: 05/11/23 16:05
Date Received: 05/12/23 13:49
Sample Depth: 9

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		05/16/23 09:51	05/16/23 16:15	1
Toluene	<0.00498	U	0.00498		mg/Kg		05/16/23 09:51	05/16/23 16:15	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		05/16/23 09:51	05/16/23 16:15	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		05/16/23 09:51	05/16/23 16:15	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		05/16/23 09:51	05/16/23 16:15	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		05/16/23 09:51	05/16/23 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*05/16/23 09:51*	*05/16/23 16:15*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*05/16/23 09:51*	*05/16/23 16:15*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*05/16/23 09:51*	*05/16/23 16:15*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*	*05/16/23 09:51*	*05/16/23 16:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 01:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 01:39	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*05/12/23 21:11*	*05/14/23 01:39*	*1*
o-Terphenyl	*149*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/14/23 01:39*	*1*

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-6 @ 9'
Lab Sample ID: 880-28372-32
Date Collected: 05/11/23 16:05 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 9

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.8**		5.01		mg/Kg			05/14/23 03:28	1

Client Sample ID: TT-6 @ 10'
Lab Sample ID: 880-28372-33
Date Collected: 05/11/23 16:10 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000994	U	0.000994		mg/Kg		05/16/23 09:51	05/16/23 16:36	1
Toluene	<0.00497	U	0.00497		mg/Kg		05/16/23 09:51	05/16/23 16:36	1
Ethylbenzene	<0.000994	U	0.000994		mg/Kg		05/16/23 09:51	05/16/23 16:36	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		05/16/23 09:51	05/16/23 16:36	1
o-Xylene	<0.000994	U	0.000994		mg/Kg		05/16/23 09:51	05/16/23 16:36	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		05/16/23 09:51	05/16/23 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*05/16/23 09:51*	*05/16/23 16:36*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*05/16/23 09:51*	*05/16/23 16:36*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*	*05/16/23 09:51*	*05/16/23 16:36*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*05/16/23 09:51*	*05/16/23 16:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/14/23 02:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/14/23 02:00	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/14/23 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*05/12/23 21:11*	*05/14/23 02:00*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/14/23 02:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**43.3**		4.97		mg/Kg			05/14/23 03:33	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-6 @ 11' Lab Sample ID: 880-28372-34

Date Collected: 05/11/23 16:15 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 11

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 16:57	1
Toluene	<0.00500	U	0.00500		mg/Kg		05/16/23 09:51	05/16/23 16:57	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 16:57	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		05/16/23 09:51	05/16/23 16:57	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 16:57	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		05/16/23 09:51	05/16/23 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*05/16/23 09:51*	*05/16/23 16:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*05/16/23 09:51*	*05/16/23 16:57*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*	*05/16/23 09:51*	*05/16/23 16:57*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*05/16/23 09:51*	*05/16/23 16:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/14/23 02:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/14/23 02:22	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/14/23 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*05/12/23 21:11*	*05/14/23 02:22*	*1*
o-Terphenyl	*148*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/14/23 02:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.5**		4.96		mg/Kg			05/14/23 03:49	1

Client Sample ID: TT-6 @ 12' Lab Sample ID: 880-28372-35

Date Collected: 05/11/23 16:20 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 12

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		05/16/23 09:51	05/16/23 14:46	1
Toluene	<0.00498	U	0.00498		mg/Kg		05/16/23 09:51	05/16/23 14:46	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		05/16/23 09:51	05/16/23 14:46	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		05/16/23 09:51	05/16/23 14:46	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		05/16/23 09:51	05/16/23 14:46	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		05/16/23 09:51	05/16/23 14:46	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-6 @ 12'
Lab Sample ID: 880-28372-35
Date Collected: 05/11/23 16:20
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 12

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150	05/16/23 09:51	05/16/23 14:46	1
4-Bromofluorobenzene (Surr)	96		68 - 152	05/16/23 09:51	05/16/23 14:46	1
Dibromofluoromethane (Surr)	104		53 - 142	05/16/23 09:51	05/16/23 14:46	1
Toluene-d8 (Surr)	96		70 - 130	05/16/23 09:51	05/16/23 14:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/14/23 02:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/14/23 02:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/12/23 21:11	05/14/23 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	05/12/23 21:11	05/14/23 02:43	1
o-Terphenyl	144	S1+	70 - 130	05/12/23 21:11	05/14/23 02:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.8**		5.03		mg/Kg			05/14/23 03:54	1

Client Sample ID: TT-6 @ 13'
Lab Sample ID: 880-28372-36
Date Collected: 05/11/23 16:25
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 13

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 16:57	1
Toluene	<0.00502	U	0.00502		mg/Kg		05/16/23 09:51	05/16/23 16:57	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 16:57	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		05/16/23 09:51	05/16/23 16:57	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 16:57	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		05/16/23 09:51	05/16/23 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		56 - 150	05/16/23 09:51	05/16/23 16:57	1
4-Bromofluorobenzene (Surr)	91		68 - 152	05/16/23 09:51	05/16/23 16:57	1
Dibromofluoromethane (Surr)	100		53 - 142	05/16/23 09:51	05/16/23 16:57	1
Toluene-d8 (Surr)	92		70 - 130	05/16/23 09:51	05/16/23 16:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201		mg/Kg			05/17/23 16:28	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-6 @ 13'
Lab Sample ID: 880-28372-36
Date Collected: 05/11/23 16:25
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 13

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/14/23 03:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/14/23 03:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/14/23 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*05/12/23 21:11*	*05/14/23 03:05*	*1*
o-Terphenyl	*142*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/14/23 03:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**51.8**		5.02		mg/Kg			05/14/23 04:00	1

Client Sample ID: TT-6 @ 14'
Lab Sample ID: 880-28372-37
Date Collected: 05/11/23 16:30
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 14

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 17:18	1
Toluene	<0.00501	U	0.00501		mg/Kg		05/16/23 09:51	05/16/23 17:18	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 17:18	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		05/16/23 09:51	05/16/23 17:18	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		05/16/23 09:51	05/16/23 17:18	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		05/16/23 09:51	05/16/23 17:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*05/16/23 09:51*	*05/16/23 17:18*	*1*
4-Bromofluorobenzene (Surr)	*94*		*68 - 152*	*05/16/23 09:51*	*05/16/23 17:18*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*05/16/23 09:51*	*05/16/23 17:18*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*	*05/16/23 09:51*	*05/16/23 17:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/14/23 03:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/14/23 03:26	1

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-6 @ 14'
Lab Sample ID: 880-28372-37
Date Collected: 05/11/23 16:30
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 14

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/14/23 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*05/12/23 21:11*	*05/14/23 03:26*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/14/23 03:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.9**		4.99		mg/Kg			05/14/23 04:05	1

Client Sample ID: TT-6 @ 15'
Lab Sample ID: 880-28372-38
Date Collected: 05/11/23 16:35
Matrix: Solid
Date Received: 05/12/23 13:49
Sample Depth: 15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 17:39	1
Toluene	<0.00504	U	0.00504		mg/Kg		05/16/23 09:51	05/16/23 17:39	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 17:39	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		05/16/23 09:51	05/16/23 17:39	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 17:39	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		05/16/23 09:51	05/16/23 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*05/16/23 09:51*	*05/16/23 17:39*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*05/16/23 09:51*	*05/16/23 17:39*	*1*
Dibromofluoromethane (Surr)	*103*		*53 - 142*	*05/16/23 09:51*	*05/16/23 17:39*	*1*
Toluene-d8 (Surr)	*86*		*70 - 130*	*05/16/23 09:51*	*05/16/23 17:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 03:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 03:47	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*05/12/23 21:11*	*05/14/23 03:47*	*1*
o-Terphenyl	*148*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/14/23 03:47*	*1*

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Client Sample ID: TT-6 @ 15'
Lab Sample ID: 880-28372-38
Date Collected: 05/11/23 16:35 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 15

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.6		4.98		mg/Kg			05/14/23 04:10	1

Client Sample ID: TT-6 @ 16'
Lab Sample ID: 880-28372-39
Date Collected: 05/11/23 16:40 **Matrix: Solid**
Date Received: 05/12/23 13:49
Sample Depth: 16

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 18:00	1
Toluene	<0.00505	U	0.00505		mg/Kg		05/16/23 09:51	05/16/23 18:00	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 18:00	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		05/16/23 09:51	05/16/23 18:00	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		05/16/23 09:51	05/16/23 18:00	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		05/16/23 09:51	05/16/23 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*05/16/23 09:51*	*05/16/23 18:00*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*	*05/16/23 09:51*	*05/16/23 18:00*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*05/16/23 09:51*	*05/16/23 18:00*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*05/16/23 09:51*	*05/16/23 18:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			05/17/23 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/23 16:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 04:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 04:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/12/23 21:11	05/14/23 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*05/12/23 21:11*	*05/14/23 04:08*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*05/12/23 21:11*	*05/14/23 04:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.5		5.00		mg/Kg			05/14/23 04:16	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: Trip Blank

Lab Sample ID: 880-28372-40
Matrix: Water
Date Collected: 05/11/23 07:05
Date Received: 05/12/23 13:49

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			05/15/23 10:46	1
Toluene	<0.00100	U	0.00100		mg/L			05/15/23 10:46	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			05/15/23 10:46	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			05/15/23 10:46	1
o-Xylene	<0.00100	U	0.00100		mg/L			05/15/23 10:46	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			05/15/23 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*63 - 144*		*05/15/23 10:46*	*1*
4-Bromofluorobenzene (Surr)	*127*	*S1+*	*74 - 124*		*05/15/23 10:46*	*1*
Dibromofluoromethane (Surr)	*121*		*75 - 131*		*05/15/23 10:46*	*1*
Toluene-d8 (Surr)	*105*		*80 - 117*		*05/15/23 10:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L			05/16/23 15:22	1

Surrogate Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
820-8447-D-1-A MS	Matrix Spike	96	96	101	97
820-8447-D-8-A MS	Matrix Spike	100	111	93	103
860-48633-A-2-D MS - RA	Matrix Spike	94	108	106	105
860-48764-D-7-B MS - DL	Matrix Spike	91	98	99	94
860-48960-C-13-A MS	Matrix Spike	91	98	102	102
860-48964-B-1-A MS - DL	Matrix Spike	93	104	96	100
860-49010-C-2-A MS - DL	Matrix Spike	101	102	92	101
880-28372-1	TT-2 @ 7'	115	107	94	102
880-28372-2	TT-2 @ 8'	113	102	92	108
880-28372-2 - DL	TT-2 @ 8'	102	107	91	99
880-28372-3	TT-2 @ 9'	80	93	80	102
880-28372-3 - DL	TT-2 @ 9'	103	99	88	99
880-28372-4	TT-2 @ 10'	108	95	94	106
880-28372-4 - DL	TT-2 @ 10'	104	109	92	99
880-28372-5	TT-2 @ 11'	107	102	91	112
880-28372-5 - DL	TT-2 @ 11'	89	90	95	99
880-28372-6	TT-2 @ 12'	97	93	91	95
880-28372-7	TT-2 @ 13'	112	99	96	100
880-28372-8	TT-2 @ 14'	95	89	96	98
880-28372-9	TT-2 @ 15'	114	94	95	99
880-28372-9 - DL	TT-2 @ 15'	97	98	90	90
880-28372-10	TT-2 @ 16'	111	101	95	104
880-28372-10 - DL	TT-2 @ 16'	105	106	90	100
880-28372-11	TT-4 @ 13'	95	94	93	105
880-28372-12	TT-4 @ 14'	96	99	96	108
880-28372-12 - DL	TT-4 @ 14'	87	93	90	96
880-28372-13	TT-4 @ 15'	88	102	95	117
880-28372-13 - DL	TT-4 @ 15'	86	98	92	95
880-28372-14	TT-4 @ 16'	92	93	90	107
880-28372-14 - DL	TT-4 @ 16'	91	90	91	101
880-28372-15	Dup-01	94	90	92	95
880-28372-16	TT-5 @ 5'	103	103	91	97
880-28372-17	TT-5 @ 6'	103	101	90	96
880-28372-18	TT-5 @ 7'	104	101	91	98
880-28372-19	TT-5 @ 8'	102	102	91	98
880-28372-20	TT-5 @ 9'	107	101	94	96
880-28372-21	TT-5 @ 10'	102	102	92	99
880-28372-22	TT-5 @ 11'	105	101	93	97
880-28372-23	TT-5 @ 12'	105	100	92	97
880-28372-24	TT-5 @ 13'	104	100	91	98
880-28372-25	TT-5 @ 14'	96	88	92	95
880-28372-26	TT-5 @ 15'	96	90	91	97
880-28372-27	TT-5 @ 16'	95	88	95	95
880-28372-28	TT-6 @ 5'	95	91	95	95
880-28372-29	TT-6 @ 6'	95	93	95	95
880-28372-30	TT-6 @ 7'	104	102	91	96
880-28372-31	TT-6 @ 8'	105	97	94	96
880-28372-32	TT-6 @ 9'	103	101	91	98
880-28372-33	TT-6 @ 10'	103	101	93	97

Surrogate Summary

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
880-28372-34	TT-6 @ 11'	104	101	91	97
880-28372-35	TT-6 @ 12'	101	96	104	96
880-28372-36	TT-6 @ 13'	97	91	100	92
880-28372-37	TT-6 @ 14'	102	94	96	100
880-28372-38	TT-6 @ 15'	103	99	103	86
880-28372-39	TT-6 @ 16'	102	96	98	95
LCS 860-103359/3	Lab Control Sample	99	103	93	102
LCS 860-103362/3	Lab Control Sample	93	97	105	100
LCS 860-103367/3	Lab Control Sample	93	92	100	100
LCS 860-103493/3	Lab Control Sample	100	101	101	100
LCS 860-103555/3	Lab Control Sample	100	93	102	99
LCS 860-103558/3	Lab Control Sample	101	108	96	101
LCS 860-103648/3	Lab Control Sample	92	99	98	99
LCSD 860-103359/4	Lab Control Sample Dup	98	104	92	101
LCSD 860-103362/4	Lab Control Sample Dup	89	99	104	96
LCSD 860-103367/4	Lab Control Sample Dup	96	100	100	100
LCSD 860-103493/4	Lab Control Sample Dup	101	99	105	102
LCSD 860-103555/4	Lab Control Sample Dup	92	101	109	95
LCSD 860-103558/4	Lab Control Sample Dup	104	109	98	101
LCSD 860-103648/4	Lab Control Sample Dup	96	99	99	97
MB 860-103359/8	Method Blank	103	100	91	97
MB 860-103362/8	Method Blank	96	95	97	92
MB 860-103367/8	Method Blank	89	89	94	95
MB 860-103493/7	Method Blank	95	93	95	96
MB 860-103555/7	Method Blank	93	98	96	95
MB 860-103558/7	Method Blank	105	105	93	99
MB 860-103648/7	Method Blank	90	89	91	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-117)
860-48897-P-1 MS	Matrix Spike	122	98	120	105
880-28372-40	Trip Blank	115	127 S1+	121	105
LCS 860-102953/3	Lab Control Sample	124	99	119	105
LCSD 860-102953/4	Lab Control Sample Dup	125	100	120	103
MB 860-102953/9	Method Blank	123	123	125	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-28372-1	TT-2 @ 7'	156 S1+	111
880-28372-2	TT-2 @ 8'	153 S1+	106
880-28372-3	TT-2 @ 9'	164 S1+	106
880-28372-4	TT-2 @ 10'	137 S1+	76
880-28372-5	TT-2 @ 11'	149 S1+	97
880-28372-6	TT-2 @ 12'	141 S1+	89
880-28372-7	TT-2 @ 13'	124	84
880-28372-8	TT-2 @ 14'	147 S1+	114
880-28372-9	TT-2 @ 15'	154 S1+	91
880-28372-10	TT-2 @ 16'	132 S1+	76
880-28372-11	TT-4 @ 13'	148 S1+	97
880-28372-12	TT-4 @ 14'	143 S1+	96
880-28372-13	TT-4 @ 15'	148 S1+	110
880-28372-14	TT-4 @ 16'	135 S1+	74
880-28372-15	Dup-01	148 S1+	96
880-28372-16	TT-5 @ 5'	128	99
880-28372-16 MS	TT-5 @ 5'	129	92
880-28372-16 MSD	TT-5 @ 5'	123	89
880-28372-17	TT-5 @ 6'	128	99
880-28372-18	TT-5 @ 7'	130	101
880-28372-19	TT-5 @ 8'	139 S1+	108
880-28372-20	TT-5 @ 9'	126	99
880-28372-21	TT-5 @ 10'	122	152 S1+
880-28372-21 MS	TT-5 @ 10'	117	126
880-28372-21 MSD	TT-5 @ 10'	120	129
880-28372-22	TT-5 @ 11'	144 S1+	175 S1+
880-28372-23	TT-5 @ 12'	123	148 S1+
880-28372-24	TT-5 @ 13'	120	143 S1+
880-28372-25	TT-5 @ 14'	122	147 S1+
880-28372-26	TT-5 @ 15'	139 S1+	167 S1+
880-28372-27	TT-5 @ 16'	119	144 S1+
880-28372-28	TT-6 @ 5'	126	152 S1+
880-28372-29	TT-6 @ 6'	121	146 S1+
880-28372-30	TT-6 @ 7'	142 S1+	166 S1+
880-28372-31	TT-6 @ 8'	119	145 S1+
880-28372-32	TT-6 @ 9'	118	149 S1+
880-28372-33	TT-6 @ 10'	120	144 S1+
880-28372-34	TT-6 @ 11'	124	148 S1+
880-28372-35	TT-6 @ 12'	119	144 S1+
880-28372-36	TT-6 @ 13'	117	142 S1+
880-28372-37	TT-6 @ 14'	117	143 S1+
880-28372-38	TT-6 @ 15'	123	148 S1+
880-28372-39	TT-6 @ 16'	125	152 S1+
LCS 880-53305/2-A	Lab Control Sample	101	79
LCS 880-53306/2-A	Lab Control Sample	96	112
LCSD 880-53305/3-A	Lab Control Sample Dup	105	81
LCSD 880-53306/3-A	Lab Control Sample Dup	126	144 S1+
MB 880-53305/1-A	Method Blank	162 S1+	129
MB 880-53306/1-A	Method Blank	143 S1+	175 S1+

Surrogate Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-102953/9
Matrix: Water
Analysis Batch: 102953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			05/15/23 10:26	1
Toluene	<0.00100	U	0.00100		mg/L			05/15/23 10:26	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			05/15/23 10:26	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			05/15/23 10:26	1
o-Xylene	<0.00100	U	0.00100		mg/L			05/15/23 10:26	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			05/15/23 10:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*63 - 144*		*05/15/23 10:26*	*1*
4-Bromofluorobenzene (Surr)	*123*		*74 - 124*		*05/15/23 10:26*	*1*
Dibromofluoromethane (Surr)	*125*		*75 - 131*		*05/15/23 10:26*	*1*
Toluene-d8 (Surr)	*106*		*80 - 117*		*05/15/23 10:26*	*1*

Lab Sample ID: LCS 860-102953/3
Matrix: Water
Analysis Batch: 102953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.05352		mg/L		107	75 - 125		
Toluene			0.0500	0.05035		mg/L		101	70 - 130		
Ethylbenzene			0.0500	0.05085		mg/L		102	75 - 125		
m,p-Xylenes			0.0500	0.05002		mg/L		100	75 - 125		
o-Xylene			0.0500	0.04963		mg/L		99	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*124*		*63 - 144*
4-Bromofluorobenzene (Surr)	*99*		*74 - 124*
Dibromofluoromethane (Surr)	*119*		*75 - 131*
Toluene-d8 (Surr)	*105*		*80 - 117*

Lab Sample ID: LCSD 860-102953/4
Matrix: Water
Analysis Batch: 102953

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.05427		mg/L		109	75 - 125	1	25
Toluene			0.0500	0.05188		mg/L		104	70 - 130	3	25
Ethylbenzene			0.0500	0.05252		mg/L		105	75 - 125	3	25
m,p-Xylenes			0.0500	0.05122		mg/L		102	75 - 125	2	25
o-Xylene			0.0500	0.05182		mg/L		104	75 - 125	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*125*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*120*		*75 - 131*
Toluene-d8 (Surr)	*103*		*80 - 117*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-48897-P-1 MS
Matrix: Water
Analysis Batch: 102953

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00100	U	0.0500	0.05183		mg/L		104	66 - 142
Toluene	<0.00100	U	0.0500	0.04956		mg/L		99	59 - 139
Ethylbenzene	<0.00100	U	0.0500	0.05041		mg/L		101	75 - 125
m,p-Xylenes	<0.0100	U	0.0500	0.04917		mg/L		98	75 - 125
o-Xylene	<0.00100	U	0.0500	0.04877		mg/L		98	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*122*		*63 - 144*
4-Bromofluorobenzene (Surr)	*98*		*74 - 124*
Dibromofluoromethane (Surr)	*120*		*75 - 131*
Toluene-d8 (Surr)	*105*		*80 - 117*

Lab Sample ID: 860-48960-C-13-A MS
Matrix: Solid
Analysis Batch: 103362

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102988

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	2.60		3.94	6.149		mg/Kg		90	71 - 119
Toluene	<1.97	U	3.94	3.935		mg/Kg		100	74 - 122
Ethylbenzene	0.728		3.94	4.776		mg/Kg		103	80 - 123
m,p-Xylenes	<0.157	U	3.94	3.966		mg/Kg			
o-Xylene	<0.0787	U	3.94	3.971		mg/Kg			

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: 820-8447-D-1-A MS
Matrix: Solid
Analysis Batch: 103555

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.0527	U	2.64	2.797		mg/Kg		106	71 - 119
Toluene	<0.264	U	2.64	2.814		mg/Kg		101	74 - 122
Ethylbenzene	<0.0527	U	2.64	2.966		mg/Kg		113	80 - 123
m,p-Xylenes	<0.105	U	2.64	2.887		mg/Kg		110	78 - 127
o-Xylene	<0.0527	U	2.64	2.846		mg/Kg		108	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
Dibromofluoromethane (Surr)	*101*		*53 - 142*
Toluene-d8 (Surr)	*97*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 820-8447-D-8-A MS
Matrix: Solid
Analysis Batch: 103558

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103279

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.0564	U	2.82	3.011		mg/Kg		107	71 - 119
Toluene	<0.282	U	2.82	3.334		mg/Kg		114	74 - 122
Ethylbenzene	<0.0564	U	2.82	3.361		mg/Kg		119	80 - 123
m,p-Xylenes	<0.113	U	2.82	3.346		mg/Kg		119	78 - 127
o-Xylene	<0.0564	U	2.82	3.407		mg/Kg		121	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*111*		*68 - 152*
Dibromofluoromethane (Surr)	*93*		*53 - 142*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 860-103359/8
Matrix: Solid
Analysis Batch: 103359

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			05/16/23 11:03	1
Toluene	<0.00500	U	0.00500		mg/Kg			05/16/23 11:03	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			05/16/23 11:03	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			05/16/23 11:03	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			05/16/23 11:03	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			05/16/23 11:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*		*05/16/23 11:03*	*1*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*		*05/16/23 11:03*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*		*05/16/23 11:03*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*05/16/23 11:03*	*1*

Lab Sample ID: LCS 860-103359/3
Matrix: Solid
Analysis Batch: 103359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.0500	0.04733		mg/Kg		95	66 - 142
Toluene			0.0500	0.05151		mg/Kg		103	74 - 130
Ethylbenzene			0.0500	0.05214		mg/Kg		104	80 - 130
m,p-Xylenes			0.0500	0.05210		mg/Kg		104	78 - 130
o-Xylene			0.0500	0.05186		mg/Kg		104	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*
Dibromofluoromethane (Surr)	*93*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-103359/4
Matrix: Solid
Analysis Batch: 103359

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04522		mg/Kg		90	66 - 142	5	25
Toluene			0.0500	0.04892		mg/Kg		98	74 - 130	5	25
Ethylbenzene			0.0500	0.04993		mg/Kg		100	80 - 130	4	25
m,p-Xylenes			0.0500	0.05005		mg/Kg		100	78 - 130	4	25
o-Xylene			0.0500	0.05019		mg/Kg		100	79 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*
4-Bromofluorobenzene (Surr)	*104*		*68 - 152*
Dibromofluoromethane (Surr)	*92*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 860-103362/8
Matrix: Solid
Analysis Batch: 103362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			05/16/23 10:40	1
Toluene	<0.00500	U	0.00500		mg/Kg			05/16/23 10:40	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			05/16/23 10:40	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			05/16/23 10:40	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			05/16/23 10:40	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			05/16/23 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*		*05/16/23 10:40*	*1*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*		*05/16/23 10:40*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*		*05/16/23 10:40*	*1*
Toluene-d8 (Surr)	*92*		*70 - 130*		*05/16/23 10:40*	*1*

Lab Sample ID: LCS 860-103362/3
Matrix: Solid
Analysis Batch: 103362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.05064		mg/Kg		101	66 - 142		
Toluene			0.0500	0.05171		mg/Kg		103	74 - 130		
Ethylbenzene			0.0500	0.05265		mg/Kg		105	80 - 130		
m,p-Xylenes			0.0500	0.05100		mg/Kg		102	78 - 130		
o-Xylene			0.0500	0.05213		mg/Kg		104	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*56 - 150*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
Dibromofluoromethane (Surr)	*105*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-103362/4
Matrix: Solid
Analysis Batch: 103362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.05051		mg/Kg		101	66 - 142	0	25
Toluene			0.0500	0.04940		mg/Kg		99	74 - 130	5	25
Ethylbenzene			0.0500	0.05265		mg/Kg		105	80 - 130	0	25
m,p-Xylenes			0.0500	0.05054		mg/Kg		101	78 - 130	1	25
o-Xylene			0.0500	0.05152		mg/Kg		103	79 - 130	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*104*		*53 - 142*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 860-103367/8
Matrix: Solid
Analysis Batch: 103367

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			05/16/23 12:43	1
Toluene	<0.00500	U	0.00500		mg/Kg			05/16/23 12:43	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			05/16/23 12:43	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			05/16/23 12:43	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			05/16/23 12:43	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			05/16/23 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*56 - 150*		*05/16/23 12:43*	*1*
4-Bromofluorobenzene (Surr)	*89*		*68 - 152*		*05/16/23 12:43*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*		*05/16/23 12:43*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*05/16/23 12:43*	*1*

Lab Sample ID: LCS 860-103367/3
Matrix: Solid
Analysis Batch: 103367

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.0500	0.05529		mg/Kg		111	66 - 142
Toluene			0.0500	0.06095		mg/Kg		122	74 - 130
Ethylbenzene			0.0500	0.05970		mg/Kg		119	80 - 130
m,p-Xylenes			0.0500	0.06007		mg/Kg		120	78 - 130
o-Xylene			0.0500	0.06075		mg/Kg		122	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*56 - 150*
4-Bromofluorobenzene (Surr)	*92*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-103367/4
Matrix: Solid
Analysis Batch: 103367

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04447		mg/Kg		89	66 - 142	22	25
Toluene			0.0500	0.04688	*1	mg/Kg		94	74 - 130	26	25
Ethylbenzene			0.0500	0.04673		mg/Kg		93	80 - 130	24	25
m,p-Xylenes			0.0500	0.04626	*1	mg/Kg		93	78 - 130	26	25
o-Xylene			0.0500	0.04765		mg/Kg		95	79 - 130	24	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 860-103493/7
Matrix: Solid
Analysis Batch: 103493

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			05/17/23 03:33	1
Toluene	<0.00500	U	0.00500		mg/Kg			05/17/23 03:33	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			05/17/23 03:33	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			05/17/23 03:33	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			05/17/23 03:33	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			05/17/23 03:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*		*05/17/23 03:33*	*1*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*		*05/17/23 03:33*	*1*
Dibromofluoromethane (Surr)	*95*		*53 - 142*		*05/17/23 03:33*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*05/17/23 03:33*	*1*

Lab Sample ID: LCS 860-103493/3
Matrix: Solid
Analysis Batch: 103493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04265		mg/Kg		85	66 - 142		
Toluene			0.0500	0.04639		mg/Kg		93	74 - 130		
Ethylbenzene			0.0500	0.04703		mg/Kg		94	80 - 130		
m,p-Xylenes			0.0500	0.04641		mg/Kg		93	78 - 130		
o-Xylene			0.0500	0.04797		mg/Kg		96	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*101*		*53 - 142*
Toluene-d8 (Surr)	*100*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-103493/4
Matrix: Solid
Analysis Batch: 103493

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04327		mg/Kg		87	66 - 142	1	25
Toluene			0.0500	0.04847		mg/Kg		97	74 - 130	4	25
Ethylbenzene			0.0500	0.04782		mg/Kg		96	80 - 130	2	25
m,p-Xylenes			0.0500	0.04786		mg/Kg		96	78 - 130	3	25
o-Xylene			0.0500	0.04986		mg/Kg		100	79 - 130	4	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*105*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 860-103555/7
Matrix: Solid
Analysis Batch: 103555

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			05/17/23 11:48	1
Toluene	<0.00500	U	0.00500		mg/Kg			05/17/23 11:48	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			05/17/23 11:48	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			05/17/23 11:48	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			05/17/23 11:48	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			05/17/23 11:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*56 - 150*		*05/17/23 11:48*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*		*05/17/23 11:48*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*		*05/17/23 11:48*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*05/17/23 11:48*	*1*

Lab Sample ID: LCS 860-103555/3
Matrix: Solid
Analysis Batch: 103555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.05102		mg/Kg		102	66 - 142		
Toluene			0.0500	0.05226		mg/Kg		105	74 - 130		
Ethylbenzene			0.0500	0.05446		mg/Kg		109	80 - 130		
m,p-Xylenes			0.0500	0.05224		mg/Kg		104	78 - 130		
o-Xylene			0.0500	0.05311		mg/Kg		106	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*93*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-103555/4
Matrix: Solid
Analysis Batch: 103555

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04439		mg/Kg		89	66 - 142	14	25
Toluene			0.0500	0.04442		mg/Kg		89	74 - 130	16	25
Ethylbenzene			0.0500	0.04629		mg/Kg		93	80 - 130	16	25
m,p-Xylenes			0.0500	0.04523		mg/Kg		90	78 - 130	14	25
o-Xylene			0.0500	0.04567		mg/Kg		91	79 - 130	15	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*109*		*53 - 142*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 860-103558/7
Matrix: Solid
Analysis Batch: 103558

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			05/17/23 13:35	1
Toluene	<0.00500	U	0.00500		mg/Kg			05/17/23 13:35	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			05/17/23 13:35	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			05/17/23 13:35	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			05/17/23 13:35	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			05/17/23 13:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*		*05/17/23 13:35*	*1*
4-Bromofluorobenzene (Surr)	*105*		*68 - 152*		*05/17/23 13:35*	*1*
Dibromofluoromethane (Surr)	*93*		*53 - 142*		*05/17/23 13:35*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/17/23 13:35*	*1*

Lab Sample ID: LCS 860-103558/3
Matrix: Solid
Analysis Batch: 103558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.0500	0.05031		mg/Kg		101	66 - 142
Toluene			0.0500	0.05511		mg/Kg		110	74 - 130
Ethylbenzene			0.0500	0.05585		mg/Kg		112	80 - 130
m,p-Xylenes			0.0500	0.05533		mg/Kg		111	78 - 130
o-Xylene			0.0500	0.05715		mg/Kg		114	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*
4-Bromofluorobenzene (Surr)	*108*		*68 - 152*
Dibromofluoromethane (Surr)	*96*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-103558/4
Matrix: Solid
Analysis Batch: 103558

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.05363		mg/Kg		107	66 - 142	6	25
Toluene			0.0500	0.05674		mg/Kg		113	74 - 130	3	25
Ethylbenzene			0.0500	0.05783		mg/Kg		116	80 - 130	3	25
m,p-Xylenes			0.0500	0.05751		mg/Kg		115	78 - 130	4	25
o-Xylene			0.0500	0.05908		mg/Kg		118	79 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 860-103648/7
Matrix: Solid
Analysis Batch: 103648

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			05/17/23 15:30	1
Toluene	<0.00500	U	0.00500		mg/Kg			05/17/23 15:30	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			05/17/23 15:30	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			05/17/23 15:30	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			05/17/23 15:30	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			05/17/23 15:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*56 - 150*		*05/17/23 15:30*	*1*
4-Bromofluorobenzene (Surr)	*89*		*68 - 152*		*05/17/23 15:30*	*1*
Dibromofluoromethane (Surr)	*91*		*53 - 142*		*05/17/23 15:30*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*05/17/23 15:30*	*1*

Lab Sample ID: LCS 860-103648/3
Matrix: Solid
Analysis Batch: 103648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.0500	0.04912		mg/Kg		98	66 - 142
Toluene			0.0500	0.05579		mg/Kg		112	74 - 130
Ethylbenzene			0.0500	0.05494		mg/Kg		110	80 - 130
m,p-Xylenes			0.0500	0.05602		mg/Kg		112	78 - 130
o-Xylene			0.0500	0.05813		mg/Kg		116	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-103648/4
Matrix: Solid
Analysis Batch: 103648

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04490		mg/Kg		90	66 - 142	9	25
Toluene			0.0500	0.04699		mg/Kg		94	74 - 130	17	25
Ethylbenzene			0.0500	0.04540		mg/Kg		91	80 - 130	19	25
m,p-Xylenes			0.0500	0.04526		mg/Kg		91	78 - 130	21	25
o-Xylene			0.0500	0.04691		mg/Kg		94	79 - 130	21	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*
Dibromofluoromethane (Surr)	*99*		*53 - 142*
Toluene-d8 (Surr)	*97*		*70 - 130*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Lab Sample ID: 860-48764-D-7-B MS
Matrix: Solid
Analysis Batch: 103367

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene - DL	1.06		39.9	39.30		mg/Kg		96	71 - 119
Toluene - DL	<3.99	U *1	39.9	44.30		mg/Kg		111	74 - 122
Ethylbenzene - DL	15.0		39.9	64.20		mg/Kg		123	80 - 123
o-Xylene - DL	32.4	F1	39.9	94.73	F1	mg/Kg		156	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - DL	*91*		*56 - 150*
4-Bromofluorobenzene (Surr) - DL	*98*		*68 - 152*
Dibromofluoromethane (Surr) - DL	*99*		*53 - 142*
Toluene-d8 (Surr) - DL	*94*		*70 - 130*

Lab Sample ID: 860-48964-B-1-A MS
Matrix: Solid
Analysis Batch: 103648

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103197

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene - DL	<0.171	U	8.53	7.475		mg/Kg		86	71 - 119
Toluene - DL	<0.853	U	8.53	8.069		mg/Kg		95	74 - 122
Ethylbenzene - DL	4.44		8.53	13.38		mg/Kg		105	80 - 123
m,p-Xylenes - DL	12.9		8.53	23.29		mg/Kg		121	78 - 127
o-Xylene - DL	<0.171	U	8.53	8.449		mg/Kg		99	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - DL	*93*		*56 - 150*
4-Bromofluorobenzene (Surr) - DL	*104*		*68 - 152*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Lab Sample ID: 860-48964-B-1-A MS
Matrix: Solid
Analysis Batch: 103648

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103197

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr) - DL	*96*		*53 - 142*
Toluene-d8 (Surr) - DL	*100*		*70 - 130*

Lab Sample ID: 860-49010-C-2-A MS
Matrix: Solid
Analysis Batch: 103359

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene - DL	<0.990	U	49.5	48.07		mg/Kg		95	71 - 119
Toluene - DL	31.7		49.5	71.36		mg/Kg		80	74 - 122
Ethylbenzene - DL	28.5		49.5	69.58		mg/Kg		83	80 - 123
m,p-Xylenes - DL	67.6	F1	49.5	94.06	F1	mg/Kg		53	78 - 127
o-Xylene - DL	24.9		49.5	67.13		mg/Kg		85	79 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - DL	*101*		*56 - 150*
4-Bromofluorobenzene (Surr) - DL	*102*		*68 - 152*
Dibromofluoromethane (Surr) - DL	*92*		*53 - 142*
Toluene-d8 (Surr) - DL	*101*		*70 - 130*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Lab Sample ID: 860-48633-A-2-D MS
Matrix: Solid
Analysis Batch: 103493

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 102802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene - RA	2.86		12.1	13.13		mg/Kg		85	71 - 119
Toluene - RA	<1.21	U	12.1	11.42		mg/Kg		94	74 - 122
Ethylbenzene - RA	0.484		12.1	11.91		mg/Kg		94	80 - 123
m,p-Xylenes - RA	0.915		12.1	12.18		mg/Kg		93	78 - 127
o-Xylene - RA	1.60	F1	12.1	17.28	F1	mg/Kg		129	79 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - RA	*94*		*56 - 150*
4-Bromofluorobenzene (Surr) - RA	*108*		*68 - 152*
Dibromofluoromethane (Surr) - RA	*106*		*53 - 142*
Toluene-d8 (Surr) - RA	*105*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-53305/1-A
Matrix: Solid
Analysis Batch: 53316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53305

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 19:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 19:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:07	05/13/23 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*162*	*S1+*	*70 - 130*	*05/12/23 21:07*	*05/13/23 19:37*	*1*
o-Terphenyl	*129*		*70 - 130*	*05/12/23 21:07*	*05/13/23 19:37*	*1*

Lab Sample ID: LCS 880-53305/2-A
Matrix: Solid
Analysis Batch: 53316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53305

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	863.6		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	907.9		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Lab Sample ID: LCSD 880-53305/3-A
Matrix: Solid
Analysis Batch: 53316

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53305

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	864.7		mg/Kg		86	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	904.5		mg/Kg		90	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: 880-28372-16 MS
Matrix: Solid
Analysis Batch: 53316

Client Sample ID: TT-5 @ 5'
Prep Type: Total/NA
Prep Batch: 53305

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	986.3		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	847.5		mg/Kg		81	70 - 130		

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-28372-16 MS
Matrix: Solid
Analysis Batch: 53316

Client Sample ID: TT-5 @ 5'
Prep Type: Total/NA
Prep Batch: 53305

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-28372-16 MSD
Matrix: Solid
Analysis Batch: 53316

Client Sample ID: TT-5 @ 5'
Prep Type: Total/NA
Prep Batch: 53305

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	954.3		mg/Kg		93	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	819.0		mg/Kg		78	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: MB 880-53306/1-A
Matrix: Solid
Analysis Batch: 53318

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53306

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/13/23 19:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/13/23 19:37	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/12/23 21:11	05/13/23 19:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	05/12/23 21:11	05/13/23 19:37	1
o-Terphenyl	175	S1+	70 - 130	05/12/23 21:11	05/13/23 19:37	1

Lab Sample ID: LCS 880-53306/2-A
Matrix: Solid
Analysis Batch: 53318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53306

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	948.3		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	966.5		mg/Kg		97	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	112		70 - 130

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-53306/3-A
Matrix: Solid
Analysis Batch: 53318

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53306

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1134		mg/Kg		113	70 - 130	18	20
Diesel Range Organics (Over C10-C28)			1000	1136		mg/Kg		114	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*126*		*70 - 130*
o-Terphenyl	*144*	*S1+*	*70 - 130*

Lab Sample ID: 880-28372-21 MS
Matrix: Solid
Analysis Batch: 53318

Client Sample ID: TT-5 @ 10'
Prep Type: Total/NA
Prep Batch: 53306

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	846.7		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1005		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*117*		*70 - 130*
o-Terphenyl	*126*		*70 - 130*

Lab Sample ID: 880-28372-21 MSD
Matrix: Solid
Analysis Batch: 53318

Client Sample ID: TT-5 @ 10'
Prep Type: Total/NA
Prep Batch: 53306

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	868.4		mg/Kg		84	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1023		mg/Kg		99	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*129*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53284/1-A
Matrix: Solid
Analysis Batch: 53351

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/13/23 22:34	1

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-53284/2-A
Matrix: Solid
Analysis Batch: 53351

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.4		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-53284/3-A
Matrix: Solid
Analysis Batch: 53351

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.0		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-28372-1 MS
Matrix: Solid
Analysis Batch: 53351

Client Sample ID: TT-2 @ 7'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	285		249	522.0		mg/Kg		95	90 - 110		

Lab Sample ID: 880-28372-1 MSD
Matrix: Solid
Analysis Batch: 53351

Client Sample ID: TT-2 @ 7'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	285		249	521.3		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 880-28372-11 MS
Matrix: Solid
Analysis Batch: 53351

Client Sample ID: TT-4 @ 13'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	93.8		252	354.1		mg/Kg		104	90 - 110		

Lab Sample ID: 880-28372-11 MSD
Matrix: Solid
Analysis Batch: 53351

Client Sample ID: TT-4 @ 13'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	93.8		252	353.1		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-53283/1-A
Matrix: Solid
Analysis Batch: 53352

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/14/23 01:41	1

Lab Sample ID: LCS 880-53283/2-A
Matrix: Solid
Analysis Batch: 53352

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.5		mg/Kg		101	90 - 110		

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-53283/3-A
Matrix: Solid
Analysis Batch: 53352

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	254.2		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-28372-21 MS
Matrix: Solid
Analysis Batch: 53352

Client Sample ID: TT-5 @ 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	46.7		249	285.6		mg/Kg		96	90 - 110		

Lab Sample ID: 880-28372-21 MSD
Matrix: Solid
Analysis Batch: 53352

Client Sample ID: TT-5 @ 10'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	46.7		249	285.1		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-28372-31 MS
Matrix: Solid
Analysis Batch: 53352

Client Sample ID: TT-6 @ 8'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	50.8		252	305.7		mg/Kg		101	90 - 110		

Lab Sample ID: 880-28372-31 MSD
Matrix: Solid
Analysis Batch: 53352

Client Sample ID: TT-6 @ 8'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	50.8		252	306.4		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

GC/MS VOA

Prep Batch: 102802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-48633-A-2-D MS - RA	Matrix Spike	Total/NA	Solid	5035	
860-48764-D-7-B MS - DL	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 102953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-40	Trip Blank	Total/NA	Water	8260C	
MB 860-102953/9	Method Blank	Total/NA	Water	8260C	
LCS 860-102953/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-102953/4	Lab Control Sample Dup	Total/NA	Water	8260C	
860-48897-P-1 MS	Matrix Spike	Total/NA	Water	8260C	

Prep Batch: 102988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-48960-C-13-A MS	Matrix Spike	Total/NA	Solid	5035	

Prep Batch: 103197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-48964-B-1-A MS - DL	Matrix Spike	Total/NA	Solid	5035	

Prep Batch: 103260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-49010-C-2-A MS - DL	Matrix Spike	Total/NA	Solid	5030C	

Prep Batch: 103279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8447-D-1-A MS	Matrix Spike	Total/NA	Solid	5035	
820-8447-D-8-A MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 103359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-16	TT-5 @ 5'	Total/NA	Solid	8260C	103391
880-28372-17	TT-5 @ 6'	Total/NA	Solid	8260C	103391
880-28372-18	TT-5 @ 7'	Total/NA	Solid	8260C	103391
880-28372-19	TT-5 @ 8'	Total/NA	Solid	8260C	103391
880-28372-20	TT-5 @ 9'	Total/NA	Solid	8260C	103391
880-28372-21	TT-5 @ 10'	Total/NA	Solid	8260C	103391
880-28372-22	TT-5 @ 11'	Total/NA	Solid	8260C	103391
880-28372-23	TT-5 @ 12'	Total/NA	Solid	8260C	103391
880-28372-24	TT-5 @ 13'	Total/NA	Solid	8260C	103391
880-28372-30	TT-6 @ 7'	Total/NA	Solid	8260C	103391
880-28372-31	TT-6 @ 8'	Total/NA	Solid	8260C	103391
880-28372-32	TT-6 @ 9'	Total/NA	Solid	8260C	103391
880-28372-33	TT-6 @ 10'	Total/NA	Solid	8260C	103391
880-28372-34	TT-6 @ 11'	Total/NA	Solid	8260C	103391
MB 860-103359/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-103359/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-103359/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-49010-C-2-A MS - DL	Matrix Spike	Total/NA	Solid	8260C	103260

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

GC/MS VOA

Analysis Batch: 103362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-35	TT-6 @ 12'	Total/NA	Solid	8260C	103391
880-28372-36	TT-6 @ 13'	Total/NA	Solid	8260C	103391
880-28372-37	TT-6 @ 14'	Total/NA	Solid	8260C	103391
880-28372-38	TT-6 @ 15'	Total/NA	Solid	8260C	103391
880-28372-39	TT-6 @ 16'	Total/NA	Solid	8260C	103391
MB 860-103362/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-103362/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-103362/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-48960-C-13-A MS	Matrix Spike	Total/NA	Solid	8260C	102988

Analysis Batch: 103367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-1	TT-2 @ 7'	Total/NA	Solid	8260C	103391
880-28372-2	TT-2 @ 8'	Total/NA	Solid	8260C	103391
880-28372-3	TT-2 @ 9'	Total/NA	Solid	8260C	103391
880-28372-4	TT-2 @ 10'	Total/NA	Solid	8260C	103391
880-28372-5	TT-2 @ 11'	Total/NA	Solid	8260C	103391
880-28372-7	TT-2 @ 13'	Total/NA	Solid	8260C	103391
880-28372-8	TT-2 @ 14'	Total/NA	Solid	8260C	103391
880-28372-9	TT-2 @ 15'	Total/NA	Solid	8260C	103391
880-28372-10	TT-2 @ 16'	Total/NA	Solid	8260C	103391
MB 860-103367/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-103367/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-103367/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-48764-D-7-B MS - DL	Matrix Spike	Total/NA	Solid	8260C	102802

Prep Batch: 103391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-1	TT-2 @ 7'	Total/NA	Solid	5035	
880-28372-2	TT-2 @ 8'	Total/NA	Solid	5035	
880-28372-2 - DL	TT-2 @ 8'	Total/NA	Solid	5035	
880-28372-3	TT-2 @ 9'	Total/NA	Solid	5035	
880-28372-3 - DL	TT-2 @ 9'	Total/NA	Solid	5035	
880-28372-4	TT-2 @ 10'	Total/NA	Solid	5035	
880-28372-4 - DL	TT-2 @ 10'	Total/NA	Solid	5035	
880-28372-5	TT-2 @ 11'	Total/NA	Solid	5035	
880-28372-5 - DL	TT-2 @ 11'	Total/NA	Solid	5035	
880-28372-6	TT-2 @ 12'	Total/NA	Solid	5035	
880-28372-7	TT-2 @ 13'	Total/NA	Solid	5035	
880-28372-8	TT-2 @ 14'	Total/NA	Solid	5035	
880-28372-9 - DL	TT-2 @ 15'	Total/NA	Solid	5035	
880-28372-9	TT-2 @ 15'	Total/NA	Solid	5035	
880-28372-10	TT-2 @ 16'	Total/NA	Solid	5035	
880-28372-10 - DL	TT-2 @ 16'	Total/NA	Solid	5035	
880-28372-11	TT-4 @ 13'	Total/NA	Solid	5035	
880-28372-12	TT-4 @ 14'	Total/NA	Solid	5035	
880-28372-12 - DL	TT-4 @ 14'	Total/NA	Solid	5035	
880-28372-13 - DL	TT-4 @ 15'	Total/NA	Solid	5035	
880-28372-13	TT-4 @ 15'	Total/NA	Solid	5035	
880-28372-14 - DL	TT-4 @ 16'	Total/NA	Solid	5035	
880-28372-14	TT-4 @ 16'	Total/NA	Solid	5035	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

GC/MS VOA (Continued)

Prep Batch: 103391 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-15	Dup-01	Total/NA	Solid	5035	
880-28372-16	TT-5 @ 5'	Total/NA	Solid	5035	
880-28372-17	TT-5 @ 6'	Total/NA	Solid	5035	
880-28372-18	TT-5 @ 7'	Total/NA	Solid	5035	
880-28372-19	TT-5 @ 8'	Total/NA	Solid	5035	
880-28372-20	TT-5 @ 9'	Total/NA	Solid	5035	
880-28372-21	TT-5 @ 10'	Total/NA	Solid	5035	
880-28372-22	TT-5 @ 11'	Total/NA	Solid	5035	
880-28372-23	TT-5 @ 12'	Total/NA	Solid	5035	
880-28372-24	TT-5 @ 13'	Total/NA	Solid	5035	
880-28372-30	TT-6 @ 7'	Total/NA	Solid	5035	
880-28372-31	TT-6 @ 8'	Total/NA	Solid	5035	
880-28372-32	TT-6 @ 9'	Total/NA	Solid	5035	
880-28372-33	TT-6 @ 10'	Total/NA	Solid	5035	
880-28372-34	TT-6 @ 11'	Total/NA	Solid	5035	
880-28372-35	TT-6 @ 12'	Total/NA	Solid	5035	
880-28372-36	TT-6 @ 13'	Total/NA	Solid	5035	
880-28372-37	TT-6 @ 14'	Total/NA	Solid	5035	
880-28372-38	TT-6 @ 15'	Total/NA	Solid	5035	
880-28372-39	TT-6 @ 16'	Total/NA	Solid	5035	

Analysis Batch: 103488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-40	Trip Blank	Total/NA	Water	Total BTEX	

Analysis Batch: 103493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-25	TT-5 @ 14'	Total/NA	Solid	8260C	103574
880-28372-26	TT-5 @ 15'	Total/NA	Solid	8260C	103574
880-28372-27	TT-5 @ 16'	Total/NA	Solid	8260C	103574
880-28372-28	TT-6 @ 5'	Total/NA	Solid	8260C	103574
880-28372-29	TT-6 @ 6'	Total/NA	Solid	8260C	103574
MB 860-103493/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-103493/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-103493/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-48633-A-2-D MS - RA	Matrix Spike	Total/NA	Solid	8260C	102802

Analysis Batch: 103555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-5 - DL	TT-2 @ 11'	Total/NA	Solid	8260C	103391
880-28372-11	TT-4 @ 13'	Total/NA	Solid	8260C	103391
880-28372-12	TT-4 @ 14'	Total/NA	Solid	8260C	103391
880-28372-12 - DL	TT-4 @ 14'	Total/NA	Solid	8260C	103391
880-28372-13	TT-4 @ 15'	Total/NA	Solid	8260C	103391
880-28372-13 - DL	TT-4 @ 15'	Total/NA	Solid	8260C	103391
880-28372-14	TT-4 @ 16'	Total/NA	Solid	8260C	103391
880-28372-14 - DL	TT-4 @ 16'	Total/NA	Solid	8260C	103391
880-28372-15	Dup-01	Total/NA	Solid	8260C	103391
MB 860-103555/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-103555/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-103555/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

GC/MS VOA (Continued)

Analysis Batch: 103555 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8447-D-1-A MS	Matrix Spike	Total/NA	Solid	8260C	103279

Analysis Batch: 103558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-2 - DL	TT-2 @ 8'	Total/NA	Solid	8260C	103391
880-28372-3 - DL	TT-2 @ 9'	Total/NA	Solid	8260C	103391
880-28372-4 - DL	TT-2 @ 10'	Total/NA	Solid	8260C	103391
880-28372-10 - DL	TT-2 @ 16'	Total/NA	Solid	8260C	103391
MB 860-103558/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-103558/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-103558/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
820-8447-D-8-A MS	Matrix Spike	Total/NA	Solid	8260C	103279

Prep Batch: 103574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-25	TT-5 @ 14'	Total/NA	Solid	5035	
880-28372-26	TT-5 @ 15'	Total/NA	Solid	5035	
880-28372-27	TT-5 @ 16'	Total/NA	Solid	5035	
880-28372-28	TT-6 @ 5'	Total/NA	Solid	5035	
880-28372-29	TT-6 @ 6'	Total/NA	Solid	5035	

Analysis Batch: 103648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-6	TT-2 @ 12'	Total/NA	Solid	8260C	103391
880-28372-9 - DL	TT-2 @ 15'	Total/NA	Solid	8260C	103391
MB 860-103648/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-103648/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-103648/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-48964-B-1-A MS - DL	Matrix Spike	Total/NA	Solid	8260C	103197

Analysis Batch: 103714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-16	TT-5 @ 5'	Total/NA	Solid	Total BTEX	
880-28372-17	TT-5 @ 6'	Total/NA	Solid	Total BTEX	
880-28372-18	TT-5 @ 7'	Total/NA	Solid	Total BTEX	
880-28372-19	TT-5 @ 8'	Total/NA	Solid	Total BTEX	
880-28372-20	TT-5 @ 9'	Total/NA	Solid	Total BTEX	
880-28372-21	TT-5 @ 10'	Total/NA	Solid	Total BTEX	
880-28372-22	TT-5 @ 11'	Total/NA	Solid	Total BTEX	
880-28372-23	TT-5 @ 12'	Total/NA	Solid	Total BTEX	

Analysis Batch: 103732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-1	TT-2 @ 7'	Total/NA	Solid	Total BTEX	
880-28372-5	TT-2 @ 11'	Total/NA	Solid	Total BTEX	
880-28372-7	TT-2 @ 13'	Total/NA	Solid	Total BTEX	
880-28372-8	TT-2 @ 14'	Total/NA	Solid	Total BTEX	
880-28372-11	TT-4 @ 13'	Total/NA	Solid	Total BTEX	
880-28372-12	TT-4 @ 14'	Total/NA	Solid	Total BTEX	
880-28372-13	TT-4 @ 15'	Total/NA	Solid	Total BTEX	
880-28372-14	TT-4 @ 16'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

GC/MS VOA (Continued)

Analysis Batch: 103732 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-15	Dup-01	Total/NA	Solid	Total BTEX	
880-28372-30	TT-6 @ 7'	Total/NA	Solid	Total BTEX	
880-28372-32	TT-6 @ 9'	Total/NA	Solid	Total BTEX	
880-28372-33	TT-6 @ 10'	Total/NA	Solid	Total BTEX	
880-28372-34	TT-6 @ 11'	Total/NA	Solid	Total BTEX	
880-28372-35	TT-6 @ 12'	Total/NA	Solid	Total BTEX	
880-28372-36	TT-6 @ 13'	Total/NA	Solid	Total BTEX	
880-28372-37	TT-6 @ 14'	Total/NA	Solid	Total BTEX	
880-28372-38	TT-6 @ 15'	Total/NA	Solid	Total BTEX	
880-28372-39	TT-6 @ 16'	Total/NA	Solid	Total BTEX	

Analysis Batch: 103733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-2	TT-2 @ 8'	Total/NA	Solid	Total BTEX	
880-28372-3	TT-2 @ 9'	Total/NA	Solid	Total BTEX	
880-28372-4	TT-2 @ 10'	Total/NA	Solid	Total BTEX	
880-28372-6	TT-2 @ 12'	Total/NA	Solid	Total BTEX	
880-28372-9	TT-2 @ 15'	Total/NA	Solid	Total BTEX	
880-28372-10	TT-2 @ 16'	Total/NA	Solid	Total BTEX	
880-28372-24	TT-5 @ 13'	Total/NA	Solid	Total BTEX	
880-28372-25	TT-5 @ 14'	Total/NA	Solid	Total BTEX	
880-28372-26	TT-5 @ 15'	Total/NA	Solid	Total BTEX	
880-28372-27	TT-5 @ 16'	Total/NA	Solid	Total BTEX	
880-28372-28	TT-6 @ 5'	Total/NA	Solid	Total BTEX	
880-28372-29	TT-6 @ 6'	Total/NA	Solid	Total BTEX	
880-28372-31	TT-6 @ 8'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 53305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-1	TT-2 @ 7'	Total/NA	Solid	8015NM Prep	
880-28372-2	TT-2 @ 8'	Total/NA	Solid	8015NM Prep	
880-28372-3	TT-2 @ 9'	Total/NA	Solid	8015NM Prep	
880-28372-4	TT-2 @ 10'	Total/NA	Solid	8015NM Prep	
880-28372-5	TT-2 @ 11'	Total/NA	Solid	8015NM Prep	
880-28372-6	TT-2 @ 12'	Total/NA	Solid	8015NM Prep	
880-28372-7	TT-2 @ 13'	Total/NA	Solid	8015NM Prep	
880-28372-8	TT-2 @ 14'	Total/NA	Solid	8015NM Prep	
880-28372-9	TT-2 @ 15'	Total/NA	Solid	8015NM Prep	
880-28372-10	TT-2 @ 16'	Total/NA	Solid	8015NM Prep	
880-28372-11	TT-4 @ 13'	Total/NA	Solid	8015NM Prep	
880-28372-12	TT-4 @ 14'	Total/NA	Solid	8015NM Prep	
880-28372-13	TT-4 @ 15'	Total/NA	Solid	8015NM Prep	
880-28372-14	TT-4 @ 16'	Total/NA	Solid	8015NM Prep	
880-28372-15	Dup-01	Total/NA	Solid	8015NM Prep	
880-28372-16	TT-5 @ 5'	Total/NA	Solid	8015NM Prep	
880-28372-17	TT-5 @ 6'	Total/NA	Solid	8015NM Prep	
880-28372-18	TT-5 @ 7'	Total/NA	Solid	8015NM Prep	
880-28372-19	TT-5 @ 8'	Total/NA	Solid	8015NM Prep	
880-28372-20	TT-5 @ 9'	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

GC Semi VOA (Continued)

Prep Batch: 53305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53305/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53305/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53305/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28372-16 MS	TT-5 @ 5'	Total/NA	Solid	8015NM Prep	
880-28372-16 MSD	TT-5 @ 5'	Total/NA	Solid	8015NM Prep	

Prep Batch: 53306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-21	TT-5 @ 10'	Total/NA	Solid	8015NM Prep	
880-28372-22	TT-5 @ 11'	Total/NA	Solid	8015NM Prep	
880-28372-23	TT-5 @ 12'	Total/NA	Solid	8015NM Prep	
880-28372-24	TT-5 @ 13'	Total/NA	Solid	8015NM Prep	
880-28372-25	TT-5 @ 14'	Total/NA	Solid	8015NM Prep	
880-28372-26	TT-5 @ 15'	Total/NA	Solid	8015NM Prep	
880-28372-27	TT-5 @ 16'	Total/NA	Solid	8015NM Prep	
880-28372-28	TT-6 @ 5'	Total/NA	Solid	8015NM Prep	
880-28372-29	TT-6 @ 6'	Total/NA	Solid	8015NM Prep	
880-28372-30	TT-6 @ 7'	Total/NA	Solid	8015NM Prep	
880-28372-31	TT-6 @ 8'	Total/NA	Solid	8015NM Prep	
880-28372-32	TT-6 @ 9'	Total/NA	Solid	8015NM Prep	
880-28372-33	TT-6 @ 10'	Total/NA	Solid	8015NM Prep	
880-28372-34	TT-6 @ 11'	Total/NA	Solid	8015NM Prep	
880-28372-35	TT-6 @ 12'	Total/NA	Solid	8015NM Prep	
880-28372-36	TT-6 @ 13'	Total/NA	Solid	8015NM Prep	
880-28372-37	TT-6 @ 14'	Total/NA	Solid	8015NM Prep	
880-28372-38	TT-6 @ 15'	Total/NA	Solid	8015NM Prep	
880-28372-39	TT-6 @ 16'	Total/NA	Solid	8015NM Prep	
MB 880-53306/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53306/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53306/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-28372-21 MS	TT-5 @ 10'	Total/NA	Solid	8015NM Prep	
880-28372-21 MSD	TT-5 @ 10'	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-1	TT-2 @ 7'	Total/NA	Solid	8015B NM	53305
880-28372-2	TT-2 @ 8'	Total/NA	Solid	8015B NM	53305
880-28372-3	TT-2 @ 9'	Total/NA	Solid	8015B NM	53305
880-28372-4	TT-2 @ 10'	Total/NA	Solid	8015B NM	53305
880-28372-5	TT-2 @ 11'	Total/NA	Solid	8015B NM	53305
880-28372-6	TT-2 @ 12'	Total/NA	Solid	8015B NM	53305
880-28372-7	TT-2 @ 13'	Total/NA	Solid	8015B NM	53305
880-28372-8	TT-2 @ 14'	Total/NA	Solid	8015B NM	53305
880-28372-9	TT-2 @ 15'	Total/NA	Solid	8015B NM	53305
880-28372-10	TT-2 @ 16'	Total/NA	Solid	8015B NM	53305
880-28372-11	TT-4 @ 13'	Total/NA	Solid	8015B NM	53305
880-28372-12	TT-4 @ 14'	Total/NA	Solid	8015B NM	53305
880-28372-13	TT-4 @ 15'	Total/NA	Solid	8015B NM	53305
880-28372-14	TT-4 @ 16'	Total/NA	Solid	8015B NM	53305
880-28372-15	Dup-01	Total/NA	Solid	8015B NM	53305
880-28372-16	TT-5 @ 5'	Total/NA	Solid	8015B NM	53305

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

GC Semi VOA (Continued)

Analysis Batch: 53316 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-17	TT-5 @ 6'	Total/NA	Solid	8015B NM	53305
880-28372-18	TT-5 @ 7'	Total/NA	Solid	8015B NM	53305
880-28372-19	TT-5 @ 8'	Total/NA	Solid	8015B NM	53305
880-28372-20	TT-5 @ 9'	Total/NA	Solid	8015B NM	53305
MB 880-53305/1-A	Method Blank	Total/NA	Solid	8015B NM	53305
LCS 880-53305/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53305
LCSD 880-53305/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53305
880-28372-16 MS	TT-5 @ 5'	Total/NA	Solid	8015B NM	53305
880-28372-16 MSD	TT-5 @ 5'	Total/NA	Solid	8015B NM	53305

Analysis Batch: 53318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-21	TT-5 @ 10'	Total/NA	Solid	8015B NM	53306
880-28372-22	TT-5 @ 11'	Total/NA	Solid	8015B NM	53306
880-28372-23	TT-5 @ 12'	Total/NA	Solid	8015B NM	53306
880-28372-24	TT-5 @ 13'	Total/NA	Solid	8015B NM	53306
880-28372-25	TT-5 @ 14'	Total/NA	Solid	8015B NM	53306
880-28372-26	TT-5 @ 15'	Total/NA	Solid	8015B NM	53306
880-28372-27	TT-5 @ 16'	Total/NA	Solid	8015B NM	53306
880-28372-28	TT-6 @ 5'	Total/NA	Solid	8015B NM	53306
880-28372-29	TT-6 @ 6'	Total/NA	Solid	8015B NM	53306
880-28372-30	TT-6 @ 7'	Total/NA	Solid	8015B NM	53306
880-28372-31	TT-6 @ 8'	Total/NA	Solid	8015B NM	53306
880-28372-32	TT-6 @ 9'	Total/NA	Solid	8015B NM	53306
880-28372-33	TT-6 @ 10'	Total/NA	Solid	8015B NM	53306
880-28372-34	TT-6 @ 11'	Total/NA	Solid	8015B NM	53306
880-28372-35	TT-6 @ 12'	Total/NA	Solid	8015B NM	53306
880-28372-36	TT-6 @ 13'	Total/NA	Solid	8015B NM	53306
880-28372-37	TT-6 @ 14'	Total/NA	Solid	8015B NM	53306
880-28372-38	TT-6 @ 15'	Total/NA	Solid	8015B NM	53306
880-28372-39	TT-6 @ 16'	Total/NA	Solid	8015B NM	53306
MB 880-53306/1-A	Method Blank	Total/NA	Solid	8015B NM	53306
LCS 880-53306/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53306
LCSD 880-53306/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53306
880-28372-21 MS	TT-5 @ 10'	Total/NA	Solid	8015B NM	53306
880-28372-21 MSD	TT-5 @ 10'	Total/NA	Solid	8015B NM	53306

Analysis Batch: 53420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-1	TT-2 @ 7'	Total/NA	Solid	8015 NM	
880-28372-2	TT-2 @ 8'	Total/NA	Solid	8015 NM	
880-28372-3	TT-2 @ 9'	Total/NA	Solid	8015 NM	
880-28372-4	TT-2 @ 10'	Total/NA	Solid	8015 NM	
880-28372-5	TT-2 @ 11'	Total/NA	Solid	8015 NM	
880-28372-6	TT-2 @ 12'	Total/NA	Solid	8015 NM	
880-28372-7	TT-2 @ 13'	Total/NA	Solid	8015 NM	
880-28372-8	TT-2 @ 14'	Total/NA	Solid	8015 NM	
880-28372-9	TT-2 @ 15'	Total/NA	Solid	8015 NM	
880-28372-10	TT-2 @ 16'	Total/NA	Solid	8015 NM	
880-28372-11	TT-4 @ 13'	Total/NA	Solid	8015 NM	
880-28372-12	TT-4 @ 14'	Total/NA	Solid	8015 NM	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

GC Semi VOA (Continued)

Analysis Batch: 53420 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-13	TT-4 @ 15'	Total/NA	Solid	8015 NM	
880-28372-14	TT-4 @ 16'	Total/NA	Solid	8015 NM	
880-28372-15	Dup-01	Total/NA	Solid	8015 NM	
880-28372-16	TT-5 @ 5'	Total/NA	Solid	8015 NM	
880-28372-17	TT-5 @ 6'	Total/NA	Solid	8015 NM	
880-28372-18	TT-5 @ 7'	Total/NA	Solid	8015 NM	
880-28372-19	TT-5 @ 8'	Total/NA	Solid	8015 NM	
880-28372-20	TT-5 @ 9'	Total/NA	Solid	8015 NM	
880-28372-21	TT-5 @ 10'	Total/NA	Solid	8015 NM	
880-28372-22	TT-5 @ 11'	Total/NA	Solid	8015 NM	
880-28372-23	TT-5 @ 12'	Total/NA	Solid	8015 NM	
880-28372-24	TT-5 @ 13'	Total/NA	Solid	8015 NM	
880-28372-25	TT-5 @ 14'	Total/NA	Solid	8015 NM	
880-28372-26	TT-5 @ 15'	Total/NA	Solid	8015 NM	
880-28372-27	TT-5 @ 16'	Total/NA	Solid	8015 NM	
880-28372-28	TT-6 @ 5'	Total/NA	Solid	8015 NM	
880-28372-29	TT-6 @ 6'	Total/NA	Solid	8015 NM	
880-28372-30	TT-6 @ 7'	Total/NA	Solid	8015 NM	
880-28372-31	TT-6 @ 8'	Total/NA	Solid	8015 NM	
880-28372-32	TT-6 @ 9'	Total/NA	Solid	8015 NM	
880-28372-33	TT-6 @ 10'	Total/NA	Solid	8015 NM	
880-28372-34	TT-6 @ 11'	Total/NA	Solid	8015 NM	
880-28372-35	TT-6 @ 12'	Total/NA	Solid	8015 NM	
880-28372-36	TT-6 @ 13'	Total/NA	Solid	8015 NM	
880-28372-37	TT-6 @ 14'	Total/NA	Solid	8015 NM	
880-28372-38	TT-6 @ 15'	Total/NA	Solid	8015 NM	
880-28372-39	TT-6 @ 16'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-21	TT-5 @ 10'	Soluble	Solid	DI Leach	
880-28372-22	TT-5 @ 11'	Soluble	Solid	DI Leach	
880-28372-23	TT-5 @ 12'	Soluble	Solid	DI Leach	
880-28372-24	TT-5 @ 13'	Soluble	Solid	DI Leach	
880-28372-25	TT-5 @ 14'	Soluble	Solid	DI Leach	
880-28372-26	TT-5 @ 15'	Soluble	Solid	DI Leach	
880-28372-27	TT-5 @ 16'	Soluble	Solid	DI Leach	
880-28372-28	TT-6 @ 5'	Soluble	Solid	DI Leach	
880-28372-29	TT-6 @ 6'	Soluble	Solid	DI Leach	
880-28372-30	TT-6 @ 7'	Soluble	Solid	DI Leach	
880-28372-31	TT-6 @ 8'	Soluble	Solid	DI Leach	
880-28372-32	TT-6 @ 9'	Soluble	Solid	DI Leach	
880-28372-33	TT-6 @ 10'	Soluble	Solid	DI Leach	
880-28372-34	TT-6 @ 11'	Soluble	Solid	DI Leach	
880-28372-35	TT-6 @ 12'	Soluble	Solid	DI Leach	
880-28372-36	TT-6 @ 13'	Soluble	Solid	DI Leach	
880-28372-37	TT-6 @ 14'	Soluble	Solid	DI Leach	
880-28372-38	TT-6 @ 15'	Soluble	Solid	DI Leach	
880-28372-39	TT-6 @ 16'	Soluble	Solid	DI Leach	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

HPLC/IC (Continued)

Leach Batch: 53283 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-53283/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53283/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53283/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28372-21 MS	TT-5 @ 10'	Soluble	Solid	DI Leach	
880-28372-21 MSD	TT-5 @ 10'	Soluble	Solid	DI Leach	
880-28372-31 MS	TT-6 @ 8'	Soluble	Solid	DI Leach	
880-28372-31 MSD	TT-6 @ 8'	Soluble	Solid	DI Leach	

Leach Batch: 53284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-1	TT-2 @ 7'	Soluble	Solid	DI Leach	
880-28372-2	TT-2 @ 8'	Soluble	Solid	DI Leach	
880-28372-3	TT-2 @ 9'	Soluble	Solid	DI Leach	
880-28372-4	TT-2 @ 10'	Soluble	Solid	DI Leach	
880-28372-5	TT-2 @ 11'	Soluble	Solid	DI Leach	
880-28372-6	TT-2 @ 12'	Soluble	Solid	DI Leach	
880-28372-7	TT-2 @ 13'	Soluble	Solid	DI Leach	
880-28372-8	TT-2 @ 14'	Soluble	Solid	DI Leach	
880-28372-9	TT-2 @ 15'	Soluble	Solid	DI Leach	
880-28372-10	TT-2 @ 16'	Soluble	Solid	DI Leach	
880-28372-11	TT-4 @ 13'	Soluble	Solid	DI Leach	
880-28372-12	TT-4 @ 14'	Soluble	Solid	DI Leach	
880-28372-13	TT-4 @ 15'	Soluble	Solid	DI Leach	
880-28372-14	TT-4 @ 16'	Soluble	Solid	DI Leach	
880-28372-15	Dup-01	Soluble	Solid	DI Leach	
880-28372-16	TT-5 @ 5'	Soluble	Solid	DI Leach	
880-28372-17	TT-5 @ 6'	Soluble	Solid	DI Leach	
880-28372-18	TT-5 @ 7'	Soluble	Solid	DI Leach	
880-28372-19	TT-5 @ 8'	Soluble	Solid	DI Leach	
880-28372-20	TT-5 @ 9'	Soluble	Solid	DI Leach	
MB 880-53284/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53284/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53284/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28372-1 MS	TT-2 @ 7'	Soluble	Solid	DI Leach	
880-28372-1 MSD	TT-2 @ 7'	Soluble	Solid	DI Leach	
880-28372-11 MS	TT-4 @ 13'	Soluble	Solid	DI Leach	
880-28372-11 MSD	TT-4 @ 13'	Soluble	Solid	DI Leach	

Analysis Batch: 53351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-1	TT-2 @ 7'	Soluble	Solid	300.0	53284
880-28372-2	TT-2 @ 8'	Soluble	Solid	300.0	53284
880-28372-3	TT-2 @ 9'	Soluble	Solid	300.0	53284
880-28372-4	TT-2 @ 10'	Soluble	Solid	300.0	53284
880-28372-5	TT-2 @ 11'	Soluble	Solid	300.0	53284
880-28372-6	TT-2 @ 12'	Soluble	Solid	300.0	53284
880-28372-7	TT-2 @ 13'	Soluble	Solid	300.0	53284
880-28372-8	TT-2 @ 14'	Soluble	Solid	300.0	53284
880-28372-9	TT-2 @ 15'	Soluble	Solid	300.0	53284
880-28372-10	TT-2 @ 16'	Soluble	Solid	300.0	53284
880-28372-11	TT-4 @ 13'	Soluble	Solid	300.0	53284

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

HPLC/IC (Continued)

Analysis Batch: 53351 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-12	TT-4 @ 14'	Soluble	Solid	300.0	53284
880-28372-13	TT-4 @ 15'	Soluble	Solid	300.0	53284
880-28372-14	TT-4 @ 16'	Soluble	Solid	300.0	53284
880-28372-15	Dup-01	Soluble	Solid	300.0	53284
880-28372-16	TT-5 @ 5'	Soluble	Solid	300.0	53284
880-28372-17	TT-5 @ 6'	Soluble	Solid	300.0	53284
880-28372-18	TT-5 @ 7'	Soluble	Solid	300.0	53284
880-28372-19	TT-5 @ 8'	Soluble	Solid	300.0	53284
880-28372-20	TT-5 @ 9'	Soluble	Solid	300.0	53284
MB 880-53284/1-A	Method Blank	Soluble	Solid	300.0	53284
LCS 880-53284/2-A	Lab Control Sample	Soluble	Solid	300.0	53284
LCSD 880-53284/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53284
880-28372-1 MS	TT-2 @ 7'	Soluble	Solid	300.0	53284
880-28372-1 MSD	TT-2 @ 7'	Soluble	Solid	300.0	53284
880-28372-11 MS	TT-4 @ 13'	Soluble	Solid	300.0	53284
880-28372-11 MSD	TT-4 @ 13'	Soluble	Solid	300.0	53284

Analysis Batch: 53352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28372-21	TT-5 @ 10'	Soluble	Solid	300.0	53283
880-28372-22	TT-5 @ 11'	Soluble	Solid	300.0	53283
880-28372-23	TT-5 @ 12'	Soluble	Solid	300.0	53283
880-28372-24	TT-5 @ 13'	Soluble	Solid	300.0	53283
880-28372-25	TT-5 @ 14'	Soluble	Solid	300.0	53283
880-28372-26	TT-5 @ 15'	Soluble	Solid	300.0	53283
880-28372-27	TT-5 @ 16'	Soluble	Solid	300.0	53283
880-28372-28	TT-6 @ 5'	Soluble	Solid	300.0	53283
880-28372-29	TT-6 @ 6'	Soluble	Solid	300.0	53283
880-28372-30	TT-6 @ 7'	Soluble	Solid	300.0	53283
880-28372-31	TT-6 @ 8'	Soluble	Solid	300.0	53283
880-28372-32	TT-6 @ 9'	Soluble	Solid	300.0	53283
880-28372-33	TT-6 @ 10'	Soluble	Solid	300.0	53283
880-28372-34	TT-6 @ 11'	Soluble	Solid	300.0	53283
880-28372-35	TT-6 @ 12'	Soluble	Solid	300.0	53283
880-28372-36	TT-6 @ 13'	Soluble	Solid	300.0	53283
880-28372-37	TT-6 @ 14'	Soluble	Solid	300.0	53283
880-28372-38	TT-6 @ 15'	Soluble	Solid	300.0	53283
880-28372-39	TT-6 @ 16'	Soluble	Solid	300.0	53283
MB 880-53283/1-A	Method Blank	Soluble	Solid	300.0	53283
LCS 880-53283/2-A	Lab Control Sample	Soluble	Solid	300.0	53283
LCSD 880-53283/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53283
880-28372-21 MS	TT-5 @ 10'	Soluble	Solid	300.0	53283
880-28372-21 MSD	TT-5 @ 10'	Soluble	Solid	300.0	53283
880-28372-31 MS	TT-6 @ 8'	Soluble	Solid	300.0	53283
880-28372-31 MSD	TT-6 @ 8'	Soluble	Solid	300.0	53283

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-2 @ 7'

Lab Sample ID: 880-28372-1
Matrix: Solid
Date Collected: 05/11/23 07:45
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		200	5 mL	5 mL	103367	05/16/23 21:11	KLV	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	53316	05/13/23 23:10	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/13/23 22:50	CH	EET MID

Client Sample ID: TT-2 @ 8'

Lab Sample ID: 880-28372-2
Matrix: Solid
Date Collected: 05/11/23 07:50
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		50	5 mL	5 mL	103367	05/16/23 20:44	KLV	EET HOU
Total/NA	Prep	5035	DL		5.04 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C	DL	500	5 mL	5 mL	103558	05/17/23 14:37	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 16:31	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	53316	05/13/23 23:31	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		5			53351	05/13/23 23:06	CH	EET MID

Client Sample ID: TT-2 @ 9'

Lab Sample ID: 880-28372-3
Matrix: Solid
Date Collected: 05/11/23 07:55
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		50	5 mL	5 mL	103367	05/16/23 17:00	KLV	EET HOU
Total/NA	Prep	5035	DL		5.05 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C	DL	500	5 mL	5 mL	103558	05/17/23 14:57	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 16:31	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	53316	05/13/23 23:53	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		5			53351	05/13/23 23:11	CH	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-2 @ 10'

Lab Sample ID: 880-28372-4
Matrix: Solid
Date Collected: 05/11/23 08:00
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		50	5 mL	5 mL	103367	05/16/23 17:33	KLV	EET HOU
Total/NA	Prep	5035	DL		4.99 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C	DL	500	5 mL	5 mL	103558	05/17/23 15:18	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 16:31	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/14/23 01:39	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/13/23 23:17	CH	EET MID

Client Sample ID: TT-2 @ 11'

Lab Sample ID: 880-28372-5
Matrix: Solid
Date Collected: 05/11/23 08:05
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		50	5 mL	5 mL	103367	05/16/23 18:00	KLV	EET HOU
Total/NA	Prep	5035	DL		5.05 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C	DL	500	5 mL	5 mL	103555	05/17/23 15:13	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	53316	05/14/23 03:05	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/13/23 23:22	CH	EET MID

Client Sample ID: TT-2 @ 12'

Lab Sample ID: 880-28372-6
Matrix: Solid
Date Collected: 05/11/23 08:10
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		200	5 mL	5 mL	103648	05/17/23 17:19	KLV	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 18:18	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/14/23 00:14	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/13/23 23:38	CH	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-2 @ 13'
Date Collected: 05/11/23 08:15
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		50	5 mL	5 mL	103367	05/16/23 18:55	KLV	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/14/23 01:18	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/13/23 23:43	CH	EET MID

Client Sample ID: TT-2 @ 14'
Date Collected: 05/11/23 08:20
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		50	5 mL	5 mL	103367	05/16/23 16:22	KLV	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/14/23 00:36	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/13/23 23:49	CH	EET MID

Client Sample ID: TT-2 @ 15'
Date Collected: 05/11/23 08:25
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		50	5 mL	5 mL	103367	05/16/23 19:22	KLV	EET HOU
Total/NA	Prep	5035	DL		4.98 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C	DL	200	5 mL	5 mL	103648	05/17/23 17:47	KLV	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 18:18	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/14/23 02:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/13/23 23:54	CH	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-2 @ 16'

Lab Sample ID: 880-28372-10
Matrix: Solid
Date Collected: 05/11/23 08:30
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		50	5 mL	5 mL	103367	05/16/23 19:49	KLV	EET HOU
Total/NA	Prep	5035	DL		5.05 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C	DL	500	5 mL	5 mL	103558	05/17/23 15:38	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 16:31	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/14/23 02:22	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/14/23 00:00	CH	EET MID

Client Sample ID: TT-4 @ 13'

Lab Sample ID: 880-28372-11
Matrix: Solid
Date Collected: 05/11/23 09:35
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		500	5 mL	5 mL	103555	05/17/23 15:34	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	53316	05/14/23 03:26	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/14/23 00:05	CH	EET MID

Client Sample ID: TT-4 @ 14'

Lab Sample ID: 880-28372-12
Matrix: Solid
Date Collected: 05/11/23 09:40
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		100	5 mL	5 mL	103555	05/17/23 12:30	MTMG	EET HOU
Total/NA	Prep	5035	DL		4.98 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C	DL	1000	5 mL	5 mL	103555	05/17/23 13:43	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	53316	05/14/23 03:47	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/14/23 00:21	CH	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-4 @ 15'

Lab Sample ID: 880-28372-13
Date Collected: 05/11/23 09:45
Matrix: Solid
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		100	5 mL	5 mL	103555	05/17/23 12:51	MTMG	EET HOU
Total/NA	Prep	5035	DL		4.98 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C	DL	1000	5 mL	5 mL	103555	05/17/23 14:07	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	53316	05/14/23 04:08	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/14/23 00:26	CH	EET MID

Client Sample ID: TT-4 @ 16'

Lab Sample ID: 880-28372-14
Date Collected: 05/11/23 09:50
Matrix: Solid
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		200	5 mL	5 mL	103555	05/17/23 13:20	MTMG	EET HOU
Total/NA	Prep	5035	DL		4.97 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C	DL	1000	5 mL	5 mL	103555	05/17/23 14:50	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/14/23 02:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/14/23 00:42	CH	EET MID

Client Sample ID: Dup-01

Lab Sample ID: 880-28372-15
Date Collected: 05/11/23 00:00
Matrix: Solid
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		2000	5 mL	5 mL	103555	05/17/23 14:29	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	53316	05/14/23 04:29	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/14/23 00:48	CH	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-5 @ 5'

Lab Sample ID: 880-28372-16
Matrix: Solid
Date Collected: 05/11/23 13:45
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 11:44	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103714	05/17/23 15:48	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/13/23 20:40	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/14/23 00:53	CH	EET MID

Client Sample ID: TT-5 @ 6'

Lab Sample ID: 880-28372-17
Matrix: Solid
Date Collected: 05/11/23 13:50
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 12:04	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103714	05/17/23 15:48	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/13/23 21:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/14/23 00:58	CH	EET MID

Client Sample ID: TT-5 @ 7'

Lab Sample ID: 880-28372-18
Matrix: Solid
Date Collected: 05/11/23 13:55
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 12:25	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103714	05/17/23 15:48	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/13/23 22:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/14/23 01:04	CH	EET MID

Client Sample ID: TT-5 @ 8'

Lab Sample ID: 880-28372-19
Matrix: Solid
Date Collected: 05/11/23 14:00
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.91 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 12:45	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103714	05/17/23 15:48	MTMG	EET HOU

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-5 @ 8'

Lab Sample ID: 880-28372-19
Matrix: Solid
Date Collected: 05/11/23 14:00
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/13/23 22:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/14/23 01:09	CH	EET MID

Client Sample ID: TT-5 @ 9'

Lab Sample ID: 880-28372-20
Matrix: Solid
Date Collected: 05/11/23 14:05
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 13:06	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103714	05/17/23 15:48	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53305	05/12/23 21:07	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53316	05/13/23 22:48	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53284	05/12/23 15:30	KS	EET MID
Soluble	Analysis	300.0		1			53351	05/14/23 01:14	CH	EET MID

Client Sample ID: TT-5 @ 10'

Lab Sample ID: 880-28372-21
Matrix: Solid
Date Collected: 05/11/23 14:10
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 13:27	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103714	05/17/23 15:48	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/13/23 20:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 01:57	CH	EET MID

Client Sample ID: TT-5 @ 11'

Lab Sample ID: 880-28372-22
Matrix: Solid
Date Collected: 05/11/23 14:15
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 13:47	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103714	05/17/23 15:48	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/13/23 21:44	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-5 @ 11'
Date Collected: 05/11/23 14:15
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 02:13	CH	EET MID

Client Sample ID: TT-5 @ 12'
Date Collected: 05/11/23 14:20
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 14:08	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103714	05/17/23 15:48	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/13/23 22:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 02:18	CH	EET MID

Client Sample ID: TT-5 @ 13'
Date Collected: 05/11/23 14:25
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 14:29	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 16:31	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/13/23 22:27	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 03:01	CH	EET MID

Client Sample ID: TT-5 @ 14'
Date Collected: 05/11/23 14:30
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	103574	05/17/23 08:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103493	05/17/23 08:33	KLV	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 16:31	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/13/23 22:48	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 02:24	CH	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-5 @ 15'

Lab Sample ID: 880-28372-26
Matrix: Solid
Date Collected: 05/11/23 14:35
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103574	05/17/23 08:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103493	05/17/23 09:00	KLV	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 16:31	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/13/23 23:10	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 02:29	CH	EET MID

Client Sample ID: TT-5 @ 16'

Lab Sample ID: 880-28372-27
Matrix: Solid
Date Collected: 05/11/23 14:40
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103574	05/17/23 08:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103493	05/17/23 09:28	KLV	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 16:31	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/13/23 23:31	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 02:45	CH	EET MID

Client Sample ID: TT-6 @ 5'

Lab Sample ID: 880-28372-28
Matrix: Solid
Date Collected: 05/11/23 15:45
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103574	05/17/23 08:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103493	05/17/23 09:55	KLV	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 16:31	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/13/23 23:53	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 02:50	CH	EET MID

Client Sample ID: TT-6 @ 6'

Lab Sample ID: 880-28372-29
Matrix: Solid
Date Collected: 05/11/23 15:50
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	103574	05/17/23 08:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103493	05/17/23 10:22	KLV	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 16:31	MTMG	EET HOU

Eurofins Midland

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-6 @ 6'

Lab Sample ID: 880-28372-29
Matrix: Solid
Date Collected: 05/11/23 15:50
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/14/23 00:14	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 02:56	CH	EET MID

Client Sample ID: TT-6 @ 7'

Lab Sample ID: 880-28372-30
Matrix: Solid
Date Collected: 05/11/23 15:55
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 15:34	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/14/23 00:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 03:06	CH	EET MID

Client Sample ID: TT-6 @ 8'

Lab Sample ID: 880-28372-31
Matrix: Solid
Date Collected: 05/11/23 16:00
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 15:54	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103733	05/17/23 16:31	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/14/23 01:18	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 03:12	CH	EET MID

Client Sample ID: TT-6 @ 9'

Lab Sample ID: 880-28372-32
Matrix: Solid
Date Collected: 05/11/23 16:05
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 16:15	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/14/23 01:39	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-6 @ 9'
Date Collected: 05/11/23 16:05
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 03:28	CH	EET MID

Client Sample ID: TT-6 @ 10'
Date Collected: 05/11/23 16:10
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 16:36	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/14/23 02:00	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 03:33	CH	EET MID

Client Sample ID: TT-6 @ 11'
Date Collected: 05/11/23 16:15
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103359	05/16/23 16:57	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/14/23 02:22	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 03:49	CH	EET MID

Client Sample ID: TT-6 @ 12'
Date Collected: 05/11/23 16:20
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103362	05/16/23 14:46	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/14/23 02:43	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 03:54	CH	EET MID

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-6 @ 13'
Date Collected: 05/11/23 16:25
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103362	05/16/23 16:57	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/14/23 03:05	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 04:00	CH	EET MID

Client Sample ID: TT-6 @ 14'
Date Collected: 05/11/23 16:30
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103362	05/16/23 17:18	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/14/23 03:26	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 04:05	CH	EET MID

Client Sample ID: TT-6 @ 15'
Date Collected: 05/11/23 16:35
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103362	05/16/23 17:39	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/14/23 03:47	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 04:10	CH	EET MID

Client Sample ID: TT-6 @ 16'
Date Collected: 05/11/23 16:40
Date Received: 05/12/23 13:49

Lab Sample ID: 880-28372-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	103391	05/16/23 09:51	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	103362	05/16/23 18:00	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			103732	05/17/23 16:28	MTMG	EET HOU

Eurofins Midland

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Client Sample ID: TT-6 @ 16'

Lab Sample ID: 880-28372-39
Matrix: Solid
Date Collected: 05/11/23 16:40
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			53420	05/15/23 16:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53306	05/12/23 21:11	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53318	05/14/23 04:08	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53283	05/12/23 15:28	KS	EET MID
Soluble	Analysis	300.0		1			53352	05/14/23 04:16	CH	EET MID

Client Sample ID: Trip Blank

Lab Sample ID: 880-28372-40
Matrix: Water
Date Collected: 05/11/23 07:05
Date Received: 05/12/23 13:49

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	102953	05/15/23 10:46	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			103488	05/16/23 15:22	JBS	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: TRC Solutions, Inc. Job ID: 880-28372-1
Project/Site: HEP : Hobbs Station TK 5202

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-53	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Solid	Total BTEX
Total BTEX		Water	Total BTEX

Method Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5030C	Purge and Trap	SW846	EET HOU
5035	Closed System Purge and Trap	SW846	EET HOU
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: TRC Solutions, Inc.
Project/Site: HEP : Hobbs Station TK 5202

Job ID: 880-28372-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-28372-1	TT-2 @ 7'	Solid	05/11/23 07:45	05/12/23 13:49	7
880-28372-2	TT-2 @ 8'	Solid	05/11/23 07:50	05/12/23 13:49	8
880-28372-3	TT-2 @ 9'	Solid	05/11/23 07:55	05/12/23 13:49	9
880-28372-4	TT-2 @ 10'	Solid	05/11/23 08:00	05/12/23 13:49	10
880-28372-5	TT-2 @ 11'	Solid	05/11/23 08:05	05/12/23 13:49	11
880-28372-6	TT-2 @ 12'	Solid	05/11/23 08:10	05/12/23 13:49	12
880-28372-7	TT-2 @ 13'	Solid	05/11/23 08:15	05/12/23 13:49	13
880-28372-8	TT-2 @ 14'	Solid	05/11/23 08:20	05/12/23 13:49	14
880-28372-9	TT-2 @ 15'	Solid	05/11/23 08:25	05/12/23 13:49	15
880-28372-10	TT-2 @ 16'	Solid	05/11/23 08:30	05/12/23 13:49	16
880-28372-11	TT-4 @ 13'	Solid	05/11/23 09:35	05/12/23 13:49	13
880-28372-12	TT-4 @ 14'	Solid	05/11/23 09:40	05/12/23 13:49	14
880-28372-13	TT-4 @ 15'	Solid	05/11/23 09:45	05/12/23 13:49	15
880-28372-14	TT-4 @ 16'	Solid	05/11/23 09:50	05/12/23 13:49	16
880-28372-15	Dup-01	Solid	05/11/23 00:00	05/12/23 13:49	13
880-28372-16	TT-5 @ 5'	Solid	05/11/23 13:45	05/12/23 13:49	5
880-28372-17	TT-5 @ 6'	Solid	05/11/23 13:50	05/12/23 13:49	6
880-28372-18	TT-5 @ 7'	Solid	05/11/23 13:55	05/12/23 13:49	7
880-28372-19	TT-5 @ 8'	Solid	05/11/23 14:00	05/12/23 13:49	8
880-28372-20	TT-5 @ 9'	Solid	05/11/23 14:05	05/12/23 13:49	9
880-28372-21	TT-5 @ 10'	Solid	05/11/23 14:10	05/12/23 13:49	10
880-28372-22	TT-5 @ 11'	Solid	05/11/23 14:15	05/12/23 13:49	11
880-28372-23	TT-5 @ 12'	Solid	05/11/23 14:20	05/12/23 13:49	12
880-28372-24	TT-5 @ 13'	Solid	05/11/23 14:25	05/12/23 13:49	13
880-28372-25	TT-5 @ 14'	Solid	05/11/23 14:30	05/12/23 13:49	14
880-28372-26	TT-5 @ 15'	Solid	05/11/23 14:35	05/12/23 13:49	15
880-28372-27	TT-5 @ 16'	Solid	05/11/23 14:40	05/12/23 13:49	16
880-28372-28	TT-6 @ 5'	Solid	05/11/23 15:45	05/12/23 13:49	5
880-28372-29	TT-6 @ 6'	Solid	05/11/23 15:50	05/12/23 13:49	6
880-28372-30	TT-6 @ 7'	Solid	05/11/23 15:55	05/12/23 13:49	7
880-28372-31	TT-6 @ 8'	Solid	05/11/23 16:00	05/12/23 13:49	8
880-28372-32	TT-6 @ 9'	Solid	05/11/23 16:05	05/12/23 13:49	9
880-28372-33	TT-6 @ 10'	Solid	05/11/23 16:10	05/12/23 13:49	10
880-28372-34	TT-6 @ 11'	Solid	05/11/23 16:15	05/12/23 13:49	11
880-28372-35	TT-6 @ 12'	Solid	05/11/23 16:20	05/12/23 13:49	12
880-28372-36	TT-6 @ 13'	Solid	05/11/23 16:25	05/12/23 13:49	13
880-28372-37	TT-6 @ 14'	Solid	05/11/23 16:30	05/12/23 13:49	14
880-28372-38	TT-6 @ 15'	Solid	05/11/23 16:35	05/12/23 13:49	15
880-28372-39	TT-6 @ 16'	Solid	05/11/23 16:40	05/12/23 13:49	16
880-28372-40	Trip Blank	Water	05/11/23 07:05	05/12/23 13:49	

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

WOI

880-28372 Chain of Custody

www.xenco.com Page 1 of 4

Project Manager	Russell Sebring	Bill to (if different)	
Company Name	TRC	Company Name	
Address.	10 Desta Dr Suite 130	Address.	
City, State ZIP	Midland TX 79705	City, State ZIP	
Phone.	432 250 4465	Email	Rsebring@trccomapnies.com

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project.
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name.	HEP Hobbs Station TK 5202	Turn Around	
Project Number	528833	☐ Routine ☑ Rush	
Project Location		Due Date	2day
Sampler's Name.	Russell Sebring	TAT starts the day received by the lab if received by 4 30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice	Yes No
Samples Received Intact:	Yes No	Thermometer ID	IR6
Cooler Custody Seals.	Yes No N/A	Correction Factor	-.30
Sample Custody Seals.	Yes No N/A	Temperature Reading	4.3
Total Containers.		Corrected Temperature	4.0

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH - 8015	BTEX - 8260	Chlorides - 300	Sample Comments
TT-2@7'	S	5 11 2023	745	7	G	2		X	X	X	1102
TT-2@8'	S	5 11 2023	750	8	G	2		X	X	X	
TT-2@9'	S	5 11 2023	755	9	G	2		X	X	X	
TT-2@10'	S	5 11 2023	800	10	G	2		X	X	X	
TT-2@11'	S	5 11 2023	805	11	G	2		X	X	X	
TT-2@12	S	5 11 2023	810	12	G	2		X	X	X	
TT-2@13'	S	5 11 2023	815	13	G	2		X	X	X	
TT-2@14'	S	5 11 2023	820	14	G	2		X	X	X	
TT-2@15'	S	5 11 2023	825	15	G	2		X	X	X	
TT-2@16'	S	5 11 2023	830	16	G	2		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by (Signature)	Received by: (Signature)	Date/Time
1			5/12/23 1349	2			
3				4			
5				6			

Revised Date 08/25/2020 Rev 2020.2

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 28572

www.xenco.com Page 2 of 4

Project Manager	Russell Sebring	Bill to (if different)	
Company Name.	TRC	Company Name	
Address	10 Desta Dr Suite 130	Address	
City, State ZIP	Midland TX 79705	City, State ZIP	
Phone.	432 250 4465 Email	Rsebring@trccomapnies.com	

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	HEP Hobbs Station TK 5202	**Turn Around**	
Project Number	528833	☐ Routine ☑ Rush	
Project Location		Due Date	
Sampler's Name	Russell Sebring	TAT starts the day received by the lab if received by 4 30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank. Yes No	Wet Ice. Yes No
Samples Received Intact:	Yes No	Thermometer ID
Cooler Custody Seals.	Yes No N/A	Correction Factor
Sample Custody Seals.	Yes No N/A	Temperature Reading
Total Containers.		Corrected Temperature

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH - 8015	BTEX - 8260	Chlorides - 300	Sample Comments
TT-4@13'	S	5 11 2023	935	13	G	2		X	X	X	
TT-4@14'	S	5 11 2023	940	13	G	2		X	X	X	
TT-4@15	S	5 11 2023	945	13	G	2		X	X	X	
TT-4@16	S	5 11 2023	950	13	G	2		X	X	X	
Dup-01	S	5 11 2023	0	13	G	2		X	X	X	
TT-5@5'	S	5 11 2023	1345	13	G	2		X	X	X	
TT-5@6'	S	5 11 2023	1350	13	G	2		X	X	X	
TT-5@7'	S	5 11 2023	1355	13	G	2		X	X	X	
TT-5@8'	S	5 11 2023	1400	13	G	2		X	X	X	
TT-5@9'	S	5 11 2023	1405	13	G	2		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5/12/23 1345	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020 2

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Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 28372

www.xenco.com Page 3 of 4

Project Manager	Russell Sebring	Bill to (if different)	
Company Name	TRC	Company Name	
Address	10 Desta Dr Suite 130	Address.	
City, State ZIP	Midland TX 79705	City, State ZIP	
Phone	432 250 4465	Email	Rsebring@trccomapnies.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other:

Project Name.	HEP Hobbs Station TK 5202	Turn Around	☐ Routine ☑ Rush
Project Number	528833	Due Date	
Project Location		TAT starts the day received by the lab if received by 4 30pm	
Sampler's Name.	Russell Sebring		
PO #:			

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice	Yes No	
Samples Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2S0_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH - 8015	BTEX - 8260	Chlorides - 300	Sample Comments
TT-5@10'	S	5 11 2023	1410	10	G	2		X	X	X	
TT-5@11'	S	5 11 2023	1415	11	G	2		X	X	X	
TT-5@12'	S	5 11 2023	1420	12	G	2		X	X	X	
TT-5@13'	S	5 11 2023	1425	13	G	2		X	X	X	
TT-5@14'	S	5 11 2023	1430	14	G	2		X	X	X	
TT 5@15'	S	5 11 2023	1435	15	G	2		X	X	X	
TT-5@16'	S	5 11 2023	1440	16	G	2		X	X	X	
TT-6@5'	S	5 11 2023	1545	5	G	2		X	X	X	
TT-6@6'	S	5 11 2023	1550	6	G	2		X	X	X	
TT-6@7'	S	5 11 2023	1555	7	G	2		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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	Relinquished by (Signature)	Received by (Signature)	Date/Time		Relinquished by (Signature)	Received by (Signature)	Date/Time
1			5/12/23 1349	2			
3				4			
5				6			

Revised Date 08/25/2020 Rev 2020 2

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Chain of Custody

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Work Order No: 28372

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Project Manager	Russell Sebring	Bill to (if different)	
Company Name	TRC	Company Name	
Address	10 Desta Dr Suite 130	Address	
City, State ZIP	Midland TX 79705	City, State ZIP	
Phone	432 250 4465	Email	Rsebring@trccomapnies.com

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	HEP Hobbs Station TK 5202	Turn Around	
Project Number	528833	☐ Routine ☑ Rush	
Project Location		Due Date	
Sampler's Name	Russell Sebring	TAT starts the day received by the lab if received by 4 30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank.	Yes No	Wet Ice	Yes No	
Samples Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Temperature Reading		
Total Containers.		Corrected Temperature		

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2SO_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH - 8015	BTEX - 8260	Chlorides - 300
TT-6@8'	S	5 11 2023	1600	8	G	2		X	X	X
TT-6@9'	S	5 11 2023	1605	9	G	2		X	X	X
TT 6@10'	S	5 11 2023	1610	10	G	2		X	X	X
TT-6@11'	S	5 11 2023	1615	11	G	2		X	X	X
TT-6@12'	S	5 11 2023	1620	12	G	2		X	X	X
TT-6@13'	S	5 11 2023	1625	13	G	2		X	X	X
TT-6@14'	S	5 11 2023	1630	14	G	2		X	X	X
TT-6@15'	S	5 11 2023	1635	15	G	2		X	X	X
TT-6@16'	S	5 11 2023	1640	16	G	2		X	X	X
TRIP BLANK	W	5 11 2023	705	NA	G	2			X	

Sample Comments

Loc: 880
28372

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		5/12/23 1349	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020 2

Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 880-6997 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-28372-1
Address: 4145 Greenbriar Dr	Due Date Requested: 5/16/2023	Analysis Requested		Preservation Codes:
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: HEP Hobbs Station TK 5202	Project #: 88000601			
Site:	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/5030C BTEX	Total_BTEX/ Total BTEX Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
Trip Blank (880-28372-40)	5/11/23	07:05 Mountain		Water			X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company
Relinquished by: FedEx	Date/Time:	Company	Received by:	Date/Time: 5/13/23 10:44	Company FedEx
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.

Temp: 1.8 IR ID:HOU-343
C/F:-0.4
Corrected Temp: 1.4

Login Sample Receipt Checklist

Client: TRC Solutions, Inc. Job Number: 880-28372-1

Login Number: 28372 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: TRC Solutions, Inc. Job Number: 880-28372-1

Login Number: 28372
List Number: 2
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 05/13/23 02:43 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: TRC Solutions, Inc. Job Number: 880-28372-1

Login Number: 28372
List Number: 3
Creator: Canadilla, Surelis

List Source: Eurofins Houston
List Creation: 05/15/23 04:07 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

TRC

Analytical Data Review Checklist

Site: Hobbs Station Tank 5202	**Laboratory:** Eurofins Midland and Eurofins Houston
Location: Hobbs, NM	**Lab Report #:** 880-28372-1
Client Name: HEP	**Reviewer:** A. Eljuri
Project #: 528833	**Peer Reviewer:** L. Denly
	Review Date: 9/12/2023

Analytical Method(s):	**Matrices Sampled:**	**Sample Collection Date(s):**
BTEX by Method 8260C; TPH (GRO, DRO, ORO, and Total) by Method 8015B NM; Chloride by EPA 300.0	Soil, aqueous quality control (QC) sample	May 11, 2023

Sampling Objective(s):

Collect confirmation soil samples at a release site.

Sample IDs (List IDs or attach COC):

Refer to data package sample summary.

	Review Item or Question	Y	N	NA	Comments
Chain-of-Custody and Data Completeness					
1	Was COC appropriately completed?		X		The COC between Eurofins Midland and Eurofins Houston is not included in the data package.
2	Did the laboratory report correct sample IDs?		X		The client sample IDs in the COC have a different format (number of spaces) compared to the Sample Summary for the majority of samples.
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	X			
4	Are results reported for all analytical methods requested?	X			The laboratory reported Total TPH (solid) and Total BTEX (solid and water), which are not offered for accreditation.
5	Are results reported for all samples submitted for analysis?	X			
6	Were the requested analytical methods used?	X			
7	Are results reported for all target analytes, but no additional analytes?	X			
8	**SOIL/SEDIMENT ONLY:** Were soil/sediment results reported on a dry weight basis?		X		The site is regulated under the New Mexico Oil Conservation District and reporting results on a dry weight basis is not a project requirement.
9	If requested, were detected results below reporting limit (i.e., "J" values) reported?			X	
10	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sample Preservation					
11a	Did samples arrive at the laboratory appropriately preserved?			X	
11b	Was the cooler temperature between 0-6°C?	X			

TRC

Analytical Data Review Checklist

Review Item or Question		Y	N	NA	Comments
11c	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?			X	
11d	**SOIL/SEDIMENT ONLY:** Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?		X		Soil samples were collected in unpreserved bulk jars, which is an acceptable collection method for BTEX and TPH analyses for the New Mexico Oil Conservation District.
12	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
13	Were any issues noted by the laboratory upon receipt?		X		
14a	**AIR ONLY:** Were canisters received with an acceptable vacuum?			X	
14b	**AIR ONLY:** Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Holding Times					
15	Were sample preparation and analysis holding time requirements met?	X			
Reporting Limits					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			All non-detect results had reporting limits below project criteria.
17	Were dilutions performed? If so, note sample(s) and parameters(s) affected and the dilution factor(s).	X			TT-2 @ 7': BTEX 200-fold and TPH 5-fold TT-2 @ 8' and TT-2 @ 11': BTEX (except benzene) 500-fold; benzene 50-fold; TPH 5-fold TT-2 @ 9': BTEX (except benzene) 500-fold; benzene 50-fold; TPH and chloride 5-fold TT-2 @ 10' and TT-2 @ 16': BTEX (except benzene) 500-fold; benzene 50-fold TT-2 @ 12': BTEX 200-fold TT-2 @ 13' and TT-2 @ 14': BTEX 50-fold TT-2 @ 15': Benzene and toluene 50-fold; ethylbenzene and total xylenes and isomers 200-fold TT-4 @ 13': BTEX 500-fold; TPH 5-fold TT-4 @ 14' and TT-4 @ 15': BTEX (except benzene) 1,000-fold; benzene 100-fold; TPH 5-fold TT-4 @ 16': Benzene, toluene, o-xylene 200-fold; ethylbenzene, m,p-xylenes, total xylenes 1,000-fold Dup-01: BTEX 2,000-fold; TPH 5-fold
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?		X		Per the Case Narrative, the samples listed in Item 17 were diluted for BTEX due to the nature of the sample matrix and to bring the concentration of target analytes within the calibration range; no reason was provided for TPH or chloride.
QC Results					
Blanks					
19	Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		X		Trip blank identified as "Trip Blank".
22	Are there any potential false positive results based on questions 19 and/or 21?		X		

TRC

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments
Laboratory Control Spikes					
23	Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples.	X			Total xylenes and TPH ORO are not reported in any LCS or LCSD.
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples.		X		The LCS/LCSD RPDs for toluene (26%) and m,p-xylenes (26%) were above the laboratory-defined limit (25%) in analysis batch 103367. Therefore, the toluene and m,p-xylenes results in samples TT-2 @ 7', TT-2 @ 8', TT-2 @ 9', TT-2 @ 10', TT-2 @ 11', TT-2 @ 13', TT-2 @ 14', TT-2 @ 15', and TT-2 @ 16' may be considered estimated.
Matrix Spikes					
26	Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.	X			MS/MSDs were performed on samples TT-5 @ 5' and TT-5 @ 10' for TPH and samples TT-2 @ 7', TT-4 @ 13', TT-5 @ 10', and TT-6 @ 8' for chloride. MS/MSDs were also performed on non-project samples; non-project sample MS/MSD results were not evaluated during this review.
27	Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was spiked.	X			
Surrogates					
28	**ORGANIC ANALYSES ONLY:** Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.		X		In samples TT-2 @ 7', TT-2 @ 9', TT-2 @ 10', TT-2 @ 11', TT-2 @ 12', TT-2 @ 15', TT-2 @ 16', TT-4 @ 13', TT-4 @ 14', TT-4 @ 15', TT-4 @ 16', and Dup-01, surrogate chlorooctane (156%, 164%, 137%, 149%, 141%, 154%, 132%, 148%, 143%, 148%, 135%, and 148%, respectively) recovered above the laboratory-defined limit (70-130%) in the TPH analyses. Therefore, detected TPH GRO, TPH DRO, and Total TPH results in samples TT-2 @ 7', TT-2 @ 9', TT-2 @ 10', TT-2 @ 11', TT-2 @ 12', TT-2 @ 15', TT-2 @ 16', TT-4 @ 13', TT-4 @ 14', TT-4 @ 15', TT-4 @ 16', Dup-01, may be considered estimated, biased high. In sample TT-2 @ 14', surrogate 1-chlorooctane (147%) recovered above the laboratory-defined limit (70-130%) in the TPH analysis. Therefore, detected TPH DRO and Total TPH results in sample TT-2 @ 14' may be considered estimated, biased high. In sample TT-5 @ 8', surrogate 1-chlorooctane (139%) recovered above the laboratory-defined limit (70-130%) in the TPH analysis. However, there were no detections of TPH, so there is no impact on data usability due to this issue. In samples TT-5 @ 10', TT-5 @ 12', TT-5 @ 13', TT-5 @ 14', TT-5 @ 16', TT-6 @ 5', TT-6 @ 6', TT-6 @ 8', TT-6 @ 9', TT-6 @ 10', TT-6 @ 11', TT-6 @ 12', TT-6 @ 13', TT-6 @ 14', TT-6 @ 15', and TT-6 @ 16', surrogate o-terphenyl (152%, 148%, 143%, 147%, 144%, 152%, 146%, 145%, 149%, 144%, 148%, 144%, 142%, 143%, 148%, and 152%, respectively) recovered above the laboratory-defined limits (70-130%) in the TPH analyses. However, there were no detections of TPH, so there is no impact on data usability due to this issue. In sample TT-5 @ 11', TT-5 @ 15', and TT-6 @ 7', surrogates 1-chlorooctane (144%, 139%, and 142%, respectively) and o-terphenyl (175%, 167%, and 166%, respectively) recovered above the laboratory-defined limit (70-130%) in the TPH analyses. However, there were no detections of TPH, so there is no impact on data usability due to this issue. In sample Trip Blank, surrogate 4-bromofluorobenzene (127%) recovered above the laboratory-defined limit (74-124%) in the BTEX analysis. However, there were no detections of BTEX, so there is no impact on data usability due to this issue.

TRC

Analytical Data Review Checklist

Review Item or Question		Y	N	NA	Comments
Duplicates					
29	Are laboratory duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	
30	Were field duplicate criteria met? If no, list analytes affected, the RPD and/or absolute difference (as applicable), and the associated samples. NOTE: RPD ≤ 50% for soil samples when results are >3x the reporting limit; otherwise, AbsD > 2x reporting limit.	X			Field duplicate pair Dup-1 and TT-4 @ 13' met project criteria.
Do the Data Make Sense?					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences) that have not already been addressed above? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		X		
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
33	Do any results look questionable? If yes, ASK THE LAB.		X		
34	Has the EDD been compared to the lab report?			X	
Additional Comments:					

Notes:
Reference: EPA Superfund Contract Laboratory Program (CLP) National Functional Guidelines (NFGs) for Data Review (November, 2020)

Abbreviations:
AbsD = Absolute Difference
BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes (and isomers)
COC = Chain-of-Custody
DRO = Diesel Range Organics
EDD = Electronic Data Deliverable
GRO = Gasoline Range Organics
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MRO = Motor Range Organics
MS/MSD = Matrix Spike / Matrix Spike Duplicate
NELAP = National Environmental Laboratory Accreditation Program
ORO = Oil Range Organics
QAPP = Quality Assurance Project Plan
QC = Quality Control
%R = Percent Recovery
RPD = Relative Percent Difference = 100% x |(A-B)/((A+B)/2)|
TPH = Total Petroleum Hydrocarbon

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Russell Sebring
TRC Solutions, Inc.
10 Desta Drive
Suite #130E
Midland, Texas 79705

Generated 5/24/2023 9:12:40 AM

JOB DESCRIPTION

HEP:Hobbs Station TK 5202

JOB NUMBER

880-28373-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
5/24/2023 9:12:40 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Laboratory Job ID: 880-28373-1

Table of Contents

Definitions/Glossary

Client: TRC Solutions, Inc. Job ID: 880-28373-1
Project/Site: HEP:Hobbs Station TK 5202

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: TRC Solutions, Inc. Job ID: 880-28373-1
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-28373-1

Receipt
The samples were received on 5/12/2023 3:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: TT-2 @17' (880-28373-1), TT-2 @18' (880-28373-2), TT-4 @17' (880-28373-3) and TT-4 @18' (880-28373-4).

GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (860-49003-E-4-A) and (860-49003-E-4-A MS). Elevated reporting limits (RLs) are provided. Sample prepped from a methanol vial.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: TT-2 @17' (880-28373-1), TT-4 @17' (880-28373-3) and TT-4 @18' (880-28373-4). Elevated reporting limits (RLs) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: lab contamination for m&p-xylene and Toluene.(MB 860-104383/8)

Method 8260C: The following samples were diluted due to the nature of the sample matrix: TT-2 @18' (880-28373-2) and (880-28373-B-2-A MS). Elevated reporting limits (RLs) are provided. Sample prepped with methanol from a bulk jar.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53847 and analytical batch 880-53828 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: TT-2 @18' (880-28373-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Client Sample ID: TT-2 @17'

Lab Sample ID: 880-28373-1
Matrix: Solid
Date Collected: 05/11/23 08:35
Date Received: 05/12/23 15:49
Sample Depth: 17'

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0495	U	0.0495		mg/Kg		05/22/23 11:52	05/22/23 17:41	50
Toluene	<0.248	U	0.248		mg/Kg		05/22/23 11:52	05/22/23 17:41	50
Ethylbenzene	<0.0495	U	0.0495		mg/Kg		05/22/23 11:52	05/22/23 17:41	50
m,p-Xylenes	<0.0990	U	0.0990		mg/Kg		05/22/23 11:52	05/22/23 17:41	50
o-Xylene	<0.0495	U	0.0495		mg/Kg		05/22/23 11:52	05/22/23 17:41	50
Xylenes, Total	<0.0990	U	0.0990		mg/Kg		05/22/23 11:52	05/22/23 17:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*	*05/22/23 11:52*	*05/22/23 17:41*	*50*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*	*05/22/23 11:52*	*05/22/23 17:41*	*50*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*05/22/23 11:52*	*05/22/23 17:41*	*50*
Toluene-d8 (Surr)	*100*		*70 - 130*	*05/22/23 11:52*	*05/22/23 17:41*	*50*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0990	U	0.0990		mg/Kg			05/23/23 15:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**377**		49.8		mg/Kg			05/23/23 10:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/22/23 09:25	05/22/23 19:27	1
Diesel Range Organics (Over C10-C28)	**377**		49.8		mg/Kg		05/22/23 09:25	05/22/23 19:27	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/22/23 09:25	05/22/23 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*05/22/23 09:25*	*05/22/23 19:27*	*1*
o-Terphenyl	*127*		*70 - 130*	*05/22/23 09:25*	*05/22/23 19:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45.0**		5.01		mg/Kg			05/20/23 22:57	1

Client Sample ID: TT-2 @18'

Lab Sample ID: 880-28373-2
Matrix: Solid
Date Collected: 05/11/23 08:40
Date Received: 05/12/23 15:49
Sample Depth: 18'

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.198	U	0.198		mg/Kg		05/22/23 11:52	05/23/23 12:27	200
Toluene	<0.990	U	0.990		mg/Kg		05/22/23 11:52	05/23/23 12:27	200
Ethylbenzene	**1.46**		0.198		mg/Kg		05/22/23 11:52	05/23/23 12:27	200
m,p-Xylenes	**2.12**		0.396		mg/Kg		05/22/23 11:52	05/23/23 12:27	200
o-Xylene	**1.17**		0.198		mg/Kg		05/22/23 11:52	05/23/23 12:27	200
Xylenes, Total	**3.29**		0.396		mg/Kg		05/22/23 11:52	05/23/23 12:27	200

Client Sample Results

Client: TRC Solutions, Inc. Job ID: 880-28373-1
Project/Site: HEP:Hobbs Station TK 5202

Client Sample ID: TT-2 @18'
Lab Sample ID: 880-28373-2
Date Collected: 05/11/23 08:40
Matrix: Solid
Date Received: 05/12/23 15:49
Sample Depth: 18'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150	05/22/23 11:52	05/23/23 12:27	200
4-Bromofluorobenzene (Surr)	98		68 - 152	05/22/23 11:52	05/23/23 12:27	200
Dibromofluoromethane (Surr)	98		53 - 142	05/22/23 11:52	05/23/23 12:27	200
Toluene-d8 (Surr)	98		70 - 130	05/22/23 11:52	05/23/23 12:27	200

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	4.75		0.396		mg/Kg			05/23/23 15:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2400		49.9		mg/Kg			05/23/23 10:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	251		49.9		mg/Kg		05/22/23 09:25	05/22/23 18:22	1
Diesel Range Organics (Over C10-C28)	1910		49.9		mg/Kg		05/22/23 09:25	05/22/23 18:22	1
Oil Range Organics (Over C28-C36)	236		49.9		mg/Kg		05/22/23 09:25	05/22/23 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130	05/22/23 09:25	05/22/23 18:22	1
o-Terphenyl	132	S1+	70 - 130	05/22/23 09:25	05/22/23 18:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		5.02		mg/Kg			05/20/23 23:02	1

Client Sample ID: TT-4 @17'
Lab Sample ID: 880-28373-3
Date Collected: 05/11/23 09:55
Matrix: Solid
Date Received: 05/12/23 15:49
Sample Depth: 17'

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.39		2.01		mg/Kg		05/22/23 11:52	05/22/23 18:22	2000
Toluene	37.0		10.0		mg/Kg		05/22/23 11:52	05/22/23 18:22	2000
Ethylbenzene	27.1		2.01		mg/Kg		05/22/23 11:52	05/22/23 18:22	2000
m,p-Xylenes	32.3		4.02		mg/Kg		05/22/23 11:52	05/22/23 18:22	2000
o-Xylene	14.9		2.01		mg/Kg		05/22/23 11:52	05/22/23 18:22	2000
Xylenes, Total	47.2		4.02		mg/Kg		05/22/23 11:52	05/22/23 18:22	2000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150	05/22/23 11:52	05/22/23 18:22	2000
4-Bromofluorobenzene (Surr)	100		68 - 152	05/22/23 11:52	05/22/23 18:22	2000
Dibromofluoromethane (Surr)	96		53 - 142	05/22/23 11:52	05/22/23 18:22	2000
Toluene-d8 (Surr)	97		70 - 130	05/22/23 11:52	05/22/23 18:22	2000

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Client Sample ID: TT-4 @17'

Lab Sample ID: 880-28373-3
Matrix: Solid
Date Collected: 05/11/23 09:55
Date Received: 05/12/23 15:49
Sample Depth: 17'

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	115		4.02		mg/Kg			05/23/23 15:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6310		249		mg/Kg			05/23/23 10:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1940		249		mg/Kg		05/22/23 09:25	05/22/23 18:44	5
Diesel Range Organics (Over C10-C28)	3890		249		mg/Kg		05/22/23 09:25	05/22/23 18:44	5
Oil Range Organics (Over C28-C36)	479		249		mg/Kg		05/22/23 09:25	05/22/23 18:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*05/22/23 09:25*	*05/22/23 18:44*	*5*
o-Terphenyl	*114*		*70 - 130*	*05/22/23 09:25*	*05/22/23 18:44*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.3		5.00		mg/Kg			05/20/23 23:08	1

Client Sample ID: TT-4 @18'

Lab Sample ID: 880-28373-4
Matrix: Solid
Date Collected: 05/11/23 10:00
Date Received: 05/12/23 15:49
Sample Depth: 18'

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.39		1.00		mg/Kg		05/22/23 11:52	05/22/23 18:43	1000
Toluene	18.2		5.02		mg/Kg		05/22/23 11:52	05/22/23 18:43	1000
Ethylbenzene	13.6		1.00		mg/Kg		05/22/23 11:52	05/22/23 18:43	1000
m,p-Xylenes	15.9		2.01		mg/Kg		05/22/23 11:52	05/22/23 18:43	1000
o-Xylene	7.74		1.00		mg/Kg		05/22/23 11:52	05/22/23 18:43	1000
Xylenes, Total	23.6		2.01		mg/Kg		05/22/23 11:52	05/22/23 18:43	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*05/22/23 11:52*	*05/22/23 18:43*	*1000*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*05/22/23 11:52*	*05/22/23 18:43*	*1000*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*05/22/23 11:52*	*05/22/23 18:43*	*1000*
Toluene-d8 (Surr)	*98*		*70 - 130*	*05/22/23 11:52*	*05/22/23 18:43*	*1000*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	56.8		2.01		mg/Kg			05/23/23 15:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6690		250		mg/Kg			05/23/23 10:13	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Client Sample ID: TT-4 @18'

Date Collected: 05/11/23 10:00
Date Received: 05/12/23 15:49
Sample Depth: 18'

Lab Sample ID: 880-28373-4

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1780		250		mg/Kg		05/22/23 09:25	05/22/23 19:05	5
Diesel Range Organics (Over C10-C28)	4400		250		mg/Kg		05/22/23 09:25	05/22/23 19:05	5
Oil Range Organics (Over C28-C36)	507		250		mg/Kg		05/22/23 09:25	05/22/23 19:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*05/22/23 09:25*	*05/22/23 19:05*	*5*
o-Terphenyl	*124*		*70 - 130*	*05/22/23 09:25*	*05/22/23 19:05*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.7		4.98		mg/Kg			05/20/23 23:13	1

Surrogate Summary

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
860-49003-E-4-A MS - DL	Matrix Spike	98	95	97	100
880-28373-1	TT-2 @17'	100	98	97	100
880-28373-2	TT-2 @18'	101	98	98	98
880-28373-2 MS	TT-2 @18'	96	101	100	101
880-28373-3	TT-4 @17'	101	100	96	97
880-28373-4	TT-4 @18'	99	97	97	98
LCS 860-104178/3	Lab Control Sample	102	103	103	99
LCS 860-104383/3	Lab Control Sample	100	100	102	99
LCSD 860-104178/4	Lab Control Sample Dup	100	101	100	102
LCSD 860-104383/4	Lab Control Sample Dup	98	102	103	101
MB 860-104178/9	Method Blank	101	102	99	98
MB 860-104383/9	Method Blank	99	102	98	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-28373-1	TT-2 @17'	109	127
880-28373-2	TT-2 @18'	136 S1+	132 S1+
880-28373-3	TT-4 @17'	123	114
880-28373-4	TT-4 @18'	129	124
890-4682-A-1-D MS	Matrix Spike	121	127
890-4682-A-1-E MSD	Matrix Spike Duplicate	105	115
LCS 880-53847/2-A	Lab Control Sample	96	106
LCSD 880-53847/3-A	Lab Control Sample Dup	111	124
MB 880-53847/1-A	Method Blank	179 S1+	218 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-104178/9
Matrix: Solid
Analysis Batch: 104178

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			05/22/23 12:43	1
Toluene	<0.00500	U	0.00500		mg/Kg			05/22/23 12:43	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			05/22/23 12:43	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			05/22/23 12:43	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			05/22/23 12:43	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			05/22/23 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*56 - 150*		*05/22/23 12:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*		*05/22/23 12:43*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*		*05/22/23 12:43*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/22/23 12:43*	*1*

Lab Sample ID: LCS 860-104178/3
Matrix: Solid
Analysis Batch: 104178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.05053		mg/Kg		101	66 - 142		
Toluene			0.0500	0.04605		mg/Kg		92	74 - 130		
Ethylbenzene			0.0500	0.05119		mg/Kg		102	80 - 130		
m,p-Xylenes			0.0500	0.05195		mg/Kg		104	78 - 130		
o-Xylene			0.0500	0.05094		mg/Kg		102	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*
4-Bromofluorobenzene (Surr)	*103*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 860-104178/4
Matrix: Solid
Analysis Batch: 104178

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04990		mg/Kg		100	66 - 142	1	25
Toluene			0.0500	0.04704		mg/Kg		94	74 - 130	2	25
Ethylbenzene			0.0500	0.05147		mg/Kg		103	80 - 130	1	25
m,p-Xylenes			0.0500	0.05223		mg/Kg		104	78 - 130	1	25
o-Xylene			0.0500	0.05219		mg/Kg		104	79 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*102*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 880-28373-2 MS
Matrix: Solid
Analysis Batch: 104383

Client Sample ID: TT-2 @18'
Prep Type: Total/NA
Prep Batch: 104268

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.198	U	9.90	9.161		mg/Kg		93	71 - 119
Toluene	<0.990	U	9.90	8.766		mg/Kg		82	74 - 122
Ethylbenzene	1.46		9.90	10.52		mg/Kg		91	80 - 123
m,p-Xylenes	2.12		9.90	11.07		mg/Kg		90	78 - 127
o-Xylene	1.17		9.90	10.39		mg/Kg		93	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 860-104383/9
Matrix: Solid
Analysis Batch: 104383

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			05/23/23 11:46	1
Toluene	<0.00500	U	0.00500		mg/Kg			05/23/23 11:46	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			05/23/23 11:46	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			05/23/23 11:46	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			05/23/23 11:46	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			05/23/23 11:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*		*05/23/23 11:46*	*1*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*		*05/23/23 11:46*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*		*05/23/23 11:46*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/23/23 11:46*	*1*

Lab Sample ID: LCS 860-104383/3
Matrix: Solid
Analysis Batch: 104383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.0500	0.04946		mg/Kg		99	66 - 142
Toluene			0.0500	0.04593		mg/Kg		92	74 - 130
Ethylbenzene			0.0500	0.05069		mg/Kg		101	80 - 130
m,p-Xylenes			0.0500	0.05170		mg/Kg		103	78 - 130
o-Xylene			0.0500	0.05098		mg/Kg		102	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-104383/4
Matrix: Solid
Analysis Batch: 104383

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04909		mg/Kg		98	66 - 142	1	25
Toluene			0.0500	0.04679		mg/Kg		94	74 - 130	2	25
Ethylbenzene			0.0500	0.05132		mg/Kg		103	80 - 130	1	25
m,p-Xylenes			0.0500	0.05082		mg/Kg		102	78 - 130	2	25
o-Xylene			0.0500	0.05185		mg/Kg		104	79 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*
4-Bromofluorobenzene (Surr)	*102*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*101*		*70 - 130*

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Lab Sample ID: 860-49003-E-4-A MS
Matrix: Solid
Analysis Batch: 104178

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 103445

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene - DL	<0.0498	U	2.49	2.427		mg/Kg		97	71 - 119
Toluene - DL	<0.249	U	2.49	2.244		mg/Kg		90	74 - 122
Ethylbenzene - DL	0.0509		2.49	2.467		mg/Kg		97	80 - 123
m,p-Xylenes - DL	0.163		2.49	2.553		mg/Kg		96	78 - 127
o-Xylene - DL	0.130		2.49	2.464		mg/Kg		94	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr) - DL	*98*		*56 - 150*
4-Bromofluorobenzene (Surr) - DL	*95*		*68 - 152*
Dibromofluoromethane (Surr) - DL	*97*		*53 - 142*
Toluene-d8 (Surr) - DL	*100*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-53847/1-A
Matrix: Solid
Analysis Batch: 53828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53847

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/22/23 08:00	05/22/23 08:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/22/23 08:00	05/22/23 08:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/22/23 08:00	05/22/23 08:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*179*	*S1+*	*70 - 130*	*05/22/23 08:00*	*05/22/23 08:26*	*1*

Eurofins Midland

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-53847/1-A
Matrix: Solid
Analysis Batch: 53828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53847

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	218	S1+	70 - 130	05/22/23 08:00	05/22/23 08:26	1

Lab Sample ID: LCS 880-53847/2-A
Matrix: Solid
Analysis Batch: 53828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 53847

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	899.0		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	884.1		mg/Kg		88	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-53847/3-A
Matrix: Solid
Analysis Batch: 53828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 53847

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	999.0		mg/Kg		100	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1018		mg/Kg		102	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: 890-4682-A-1-D MS
Matrix: Solid
Analysis Batch: 53828

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 53847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1131		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	104		998	1181		mg/Kg		108	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	127		70 - 130

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-4682-A-1-E MSD
Matrix: Solid
Analysis Batch: 53828

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 53847

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	940.5		mg/Kg		89	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	104		999	1032		mg/Kg		93	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-53738/1-A
Matrix: Solid
Analysis Batch: 53780

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/20/23 20:43	1

Lab Sample ID: LCS 880-53738/2-A
Matrix: Solid
Analysis Batch: 53780

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.5		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-53738/3-A
Matrix: Solid
Analysis Batch: 53780

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	266.7		mg/Kg		107	90 - 110	1	20

Lab Sample ID: 880-28614-A-6-B MS
Matrix: Solid
Analysis Batch: 53780

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2390		1240	3600		mg/Kg		98	90 - 110		

Lab Sample ID: 880-28614-A-6-C MSD
Matrix: Solid
Analysis Batch: 53780

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2390		1240	3619		mg/Kg		99	90 - 110	1	20

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

GC/MS VOA

Prep Batch: 103445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-49003-E-4-A MS - DL	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 104178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28373-1	TT-2 @17'	Total/NA	Solid	8260C	104268
880-28373-3	TT-4 @17'	Total/NA	Solid	8260C	104268
880-28373-4	TT-4 @18'	Total/NA	Solid	8260C	104268
MB 860-104178/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-104178/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-104178/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-49003-E-4-A MS - DL	Matrix Spike	Total/NA	Solid	8260C	103445

Prep Batch: 104268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28373-1	TT-2 @17'	Total/NA	Solid	5035	
880-28373-2	TT-2 @18'	Total/NA	Solid	5035	
880-28373-3	TT-4 @17'	Total/NA	Solid	5035	
880-28373-4	TT-4 @18'	Total/NA	Solid	5035	
880-28373-2 MS	TT-2 @18'	Total/NA	Solid	5035	

Analysis Batch: 104383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28373-2	TT-2 @18'	Total/NA	Solid	8260C	104268
MB 860-104383/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-104383/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-104383/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
880-28373-2 MS	TT-2 @18'	Total/NA	Solid	8260C	104268

Analysis Batch: 104508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28373-1	TT-2 @17'	Total/NA	Solid	Total BTEX	
880-28373-2	TT-2 @18'	Total/NA	Solid	Total BTEX	
880-28373-3	TT-4 @17'	Total/NA	Solid	Total BTEX	
880-28373-4	TT-4 @18'	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 53828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28373-1	TT-2 @17'	Total/NA	Solid	8015B NM	53847
880-28373-2	TT-2 @18'	Total/NA	Solid	8015B NM	53847
880-28373-3	TT-4 @17'	Total/NA	Solid	8015B NM	53847
880-28373-4	TT-4 @18'	Total/NA	Solid	8015B NM	53847
MB 880-53847/1-A	Method Blank	Total/NA	Solid	8015B NM	53847
LCS 880-53847/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53847
LCSD 880-53847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53847
890-4682-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	53847
890-4682-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53847

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

GC Semi VOA

Prep Batch: 53847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28373-1	TT-2 @17'	Total/NA	Solid	8015NM Prep	
880-28373-2	TT-2 @18'	Total/NA	Solid	8015NM Prep	
880-28373-3	TT-4 @17'	Total/NA	Solid	8015NM Prep	
880-28373-4	TT-4 @18'	Total/NA	Solid	8015NM Prep	
MB 880-53847/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53847/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53847/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4682-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4682-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28373-1	TT-2 @17'	Total/NA	Solid	8015 NM	
880-28373-2	TT-2 @18'	Total/NA	Solid	8015 NM	
880-28373-3	TT-4 @17'	Total/NA	Solid	8015 NM	
880-28373-4	TT-4 @18'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 53738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28373-1	TT-2 @17'	Soluble	Solid	DI Leach	
880-28373-2	TT-2 @18'	Soluble	Solid	DI Leach	
880-28373-3	TT-4 @17'	Soluble	Solid	DI Leach	
880-28373-4	TT-4 @18'	Soluble	Solid	DI Leach	
MB 880-53738/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-53738/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-53738/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-28614-A-6-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-28614-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 53780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-28373-1	TT-2 @17'	Soluble	Solid	300.0	53738
880-28373-2	TT-2 @18'	Soluble	Solid	300.0	53738
880-28373-3	TT-4 @17'	Soluble	Solid	300.0	53738
880-28373-4	TT-4 @18'	Soluble	Solid	300.0	53738
MB 880-53738/1-A	Method Blank	Soluble	Solid	300.0	53738
LCS 880-53738/2-A	Lab Control Sample	Soluble	Solid	300.0	53738
LCSD 880-53738/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	53738
880-28614-A-6-B MS	Matrix Spike	Soluble	Solid	300.0	53738
880-28614-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	53738

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Client Sample ID: TT-2 @17'
Date Collected: 05/11/23 08:35
Date Received: 05/12/23 15:49

Lab Sample ID: 880-28373-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	104268	05/22/23 11:52	MTMG	EET HOU
Total/NA	Analysis	8260C		50	5 mL	5 mL	104178	05/22/23 17:41	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			104508	05/23/23 15:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53978	05/23/23 10:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53847	05/22/23 09:25	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53828	05/22/23 19:27	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	53738	05/19/23 12:28	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53780	05/20/23 22:57	CH	EET MID

Client Sample ID: TT-2 @18'
Date Collected: 05/11/23 08:40
Date Received: 05/12/23 15:49

Lab Sample ID: 880-28373-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	104268	05/22/23 11:52	MTMG	EET HOU
Total/NA	Analysis	8260C		200	5 mL	5 mL	104383	05/23/23 12:27	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			104508	05/23/23 15:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53978	05/23/23 10:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53847	05/22/23 09:25	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	53828	05/22/23 18:22	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	53738	05/19/23 12:28	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53780	05/20/23 23:02	CH	EET MID

Client Sample ID: TT-4 @17'
Date Collected: 05/11/23 09:55
Date Received: 05/12/23 15:49

Lab Sample ID: 880-28373-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	104268	05/22/23 11:52	MTMG	EET HOU
Total/NA	Analysis	8260C		2000	5 mL	5 mL	104178	05/22/23 18:22	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			104508	05/23/23 15:28	MTMG	EET HOU
Total/NA	Analysis	8015 NM		1			53978	05/23/23 10:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53847	05/22/23 09:25	AM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	53828	05/22/23 18:44	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	53738	05/19/23 12:28	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53780	05/20/23 23:08	CH	EET MID

Client Sample ID: TT-4 @18'
Date Collected: 05/11/23 10:00
Date Received: 05/12/23 15:49

Lab Sample ID: 880-28373-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	104268	05/22/23 11:52	MTMG	EET HOU
Total/NA	Analysis	8260C		1000	5 mL	5 mL	104178	05/22/23 18:43	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			104508	05/23/23 15:28	MTMG	EET HOU

Eurofins Midland

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Client Sample ID: TT-4 @18'

Date Collected: 05/11/23 10:00
Date Received: 05/12/23 15:49

Lab Sample ID: 880-28373-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			53978	05/23/23 10:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	53847	05/22/23 09:25	AM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	53828	05/22/23 19:05	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	53738	05/19/23 12:28	CH	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53780	05/20/23 23:13	CH	EET MID

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: TRC Solutions, Inc. Job ID: 880-28373-1
Project/Site: HEP:Hobbs Station TK 5202

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Solid	Total BTEX

Method Summary

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET HOU
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: TRC Solutions, Inc.
Project/Site: HEP:Hobbs Station TK 5202

Job ID: 880-28373-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-28373-1	TT-2 @17'	Solid	05/11/23 08:35	05/12/23 15:49	17'
880-28373-2	TT-2 @18'	Solid	05/11/23 08:40	05/12/23 15:49	18'
880-28373-3	TT-4 @17'	Solid	05/11/23 09:55	05/12/23 15:49	17'
880-28373-4	TT-4 @18'	Solid	05/11/23 10:00	05/12/23 15:49	18'

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Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300
Midland TX (432) 704-5440 San Antonio TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199

Work Order No: 28373

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Project Manager	Russell Sebring	Bill to (if different)	
Company Name	TRC	Company Name:	
Address.	10 Desta Dr Suite 130	Address.	
City, State ZIP	Midland TX 79705	City, State ZIP	
Phone.	432 250 4465 Email	Rsebring@trccomapnies com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project.
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name:	HEP Hobbs Station TK 5202	Turn Around	
Project Number	528833	☐ Routine ☑ Rush	
Project Location		Due Date 2 day	
Sampler's Name:	Russell Sebring	TAT starts the day received by the lab if received by 4 30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice.	Yes No
Samples Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals.	Yes No N/A	Correction Factor	-1.0
Sample Custody Seals	Yes No N/A	Temperature Reading	4.3
Total Containers.		Corrected Temperature:	4.0

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3. HN
H_2S0_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH - 8015	BTEX - 8260	Chlorides - 300	HOLD
TT-2@17'	S	5 11 2023	835	17	G	2				X
TT-2@18'	S	5 11 2023	840	18	G	2				X
TT-4@17'	S	5 11 2023	955	17	G	2				X
TT-4@18'	S	5 11 2023	1000	18	G	2				X

880-28373 Chain of Custody

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. *These terms will be enforced unless previously negotiated.*

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		5/12/23 1545	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev 2020 2

Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

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Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 880-7045.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-28373-1
Address: 4145 Greenbriar Dr	Due Date Requested: 5/23/2023			Preservation Codes.
City: Stafford	TAT Requested (days):			A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
State, Zip: TX, 77477	PO #:			Other
Phone: 281-240-4200(Tel)	WO #:			
Email				
Project Name: HEP Hobbs Station TK 5202	Project #: 88000601			
Site:	SSOW#:			

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/8035FP_Calc BTEX	Total_BTEX/ Total BTEX Calculation	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
TT-2 @17' (880-28373-1)	5/11/23	08:35 Mountain		Solid			X	X	1	
TT-2 @18' (880-28373-2)	5/11/23	08:40 Mountain		Solid			X	X	1	
TT-4 @17' (880-28373-3)	5/11/23	09:55 Mountain		Solid			X	X	1	
TT-4 @18' (880-28373-4)	5/11/23	10:00 Mountain		Solid			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by: FedEX	Date/Time:	Company
Relinquished by: FedEX	Date/Time:	Company	Received by:	Date/Time: 5/20/2023 10:30	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	

Custody Seals Intact: | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: Temp IR ID:HOU-343 C/F:-0.4 2.0 Corrected Temp: 1.6

Login Sample Receipt Checklist

Client: TRC Solutions, Inc. Job Number: 880-28373-1

Login Number: 28373 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: TRC Solutions, Inc. Job Number: 880-28373-1

Login Number: 28373
List Number: 2
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 05/20/23 03:18 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

TRC

Analytical Data Review Checklist

Site: Hobbs Station Tank 5202	**Laboratory:** Eurofins Midland and Eurofins Houston
Location: Hobbs, NM	**Lab Report #:** 880-28373-1
Client Name: HEP	**Reviewer:** A. Eljuri
Project #: 528833	**Peer Reviewer:** L. Denly
	Review Date: 9/12/2023

Analytical Method(s):	**Matrices Sampled:**	**Sample Collection Date(s):**
BTEX by Method 8260C; TPH (GRO, DRO, ORO, and Total) by Method 8015B NM; Chloride by EPA 300.0	Soil	May 11, 2023

Sampling Objective(s):

Collect confirmation soil samples at a release site.

Sample IDs (List IDs or attach COC):

Refer to data package sample summary.

	Review Item or Question	Y	N	NA	Comments
Chain-of-Custody and Data Completeness					
1	Was COC appropriately completed?		X		The initial relinquish time and date from Eurofins Midland to FedEx is missing. The COC did not mark that samples TT-2 @ 17', TT-2 @ 18',TT-4 @ 17', and TT-4 @ 18' were to be analyzed for BTEX, TPHs, and chloride on the first COC to Eurofins Midland. This was corrected on the COC between Eurofins Midland and Eurofins Houston.
2	Did the laboratory report correct sample IDs?		X		The client sample IDs in the COC have a different format (number of spaces) compared to the Sample Summary for the majority of samples.
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	X			
4	Are results reported for all analytical methods requested?	X			The laboratory reported Total TPH and Total BTEX (solid), which are not offered for accreditation.
5	Are results reported for all samples submitted for analysis?	X			
6	Were the requested analytical methods used?	X			
7	Are results reported for all target analytes, but no additional analytes?	X			
8	**SOIL/SEDIMENT ONLY:** Were soil/sediment results reported on a dry weight basis?		X		The site is regulated under the New Mexico Oil Conservation District and reporting results on a dry weight basis is not a project requirement.
9	If requested, were detected results below reporting limit (i.e., "J" values) reported?			X	
10	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sample Preservation					
11a	Did samples arrive at the laboratory appropriately preserved?			X	
11b	Was the cooler temperature between 0-6°C?	X			
11c	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?			X	

TRC

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments
11d	**SOIL/SEDIMENT ONLY:** Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?		X		Soil samples were collected in unpreserved bulk jars, which is an acceptable collection method for BTEX and TPH analyses for the New Mexico Oil Conservation District.
12	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
13	Were any issues noted by the laboratory upon receipt?		X		
14a	**AIR ONLY:** Were canisters received with an acceptable vacuum?			X	
14b	**AIR ONLY:** Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Holding Times					
15	Were sample preparation and analysis holding time requirements met?	X			
Reporting Limits					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			All non-detect results had reporting limits below project criteria.
17	Were dilutions performed? If so, note sample(s) and parameters(s) affected and the dilution factor(s).	X			TT-2 @ 17': BTEX 50-fold TT-2 @ 18': BTEX 200-fold TT-4 @ 17': BTEX 2,000-fold; TPH 5-fold TT-4 @ 18': BTEX 1,000-fold; TPH 5-fold
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?		X		Per the Case Narrative, the samples listed in Item 17 were diluted for BTEX due to the nature of the sample matrix; no reason was provided for TPH.
QC Results					
Blanks					
19	Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).			X	
22	Are there any potential false positive results based on questions 19 and/or 21?		X		
Laboratory Control Spikes					
23	Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples.	X			Total xylenes and TPH ORO are not reported in any LCS or LCSD.
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples.	X			
Matrix Spikes					
26	Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.	X			An MS was performed on sample TT-2 @ 18' for BTEX. MS/MSDs were also performed on non-project samples; non-project sample MS/MSD results were not evaluated during this review.

TRC

Analytical Data Review Checklist

Review Item or Question		Y	N	NA	Comments
27	Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was spiked.	X			
Surrogates					
28	**ORGANIC ANALYSES ONLY:** Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.		X		In sample TT-2 @ 18', surrogates 1-chlorooctane (136%) and o-terphenyl (132%) recovered above the laboratory-defined limit (70-130%) in the TPH analysis. Therefore, detected TPH GRO, TPH DRO, TPH ORO, and Total TPH results in sample TT-2 @ 18' may be considered estimated, biased high.
Duplicates					
29	Are laboratory duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	
30	Were field duplicate criteria met? If no, list analytes affected, the RPD and/or absolute difference (as applicable), and the associated samples. NOTE: RPD ≤ 50% for soil samples when results are >3x the reporting limit; otherwise, AbsD > 2x reporting limit.			X	
Do the Data Make Sense?					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences) that have not already been addressed above? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		X		
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
33	Do any results look questionable? If yes, ASK THE LAB.		X		
34	Has the EDD been compared to the lab report?			X	
Additional Comments:					

Notes:
Reference: EPA Superfund Contract Laboratory Program (CLP) National Functional Guidelines (NFGs) for Data Review (November, 2020)

Abbreviations:
AbsD = Absolute Difference
BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes (and isomers)
COC = Chain-of-Custody
DRO = Diesel Range Organics
EDD = Electronic Data Deliverable
GRO = Gasoline Range Organics
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MRO = Motor Range Organics
MS/MSD = Matrix Spike / Matrix Spike Duplicate
NELAP = National Environmental Laboratory Accreditation Program
ORO = Oil Range Organics
QAPP = Quality Assurance Project Plan
QC = Quality Control
%R = Percent Recovery
RPD = Relative Percent Difference = 100% x |(A-B)/((A+B)/2)|
TPH = Total Petroleum Hydrocarbon

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jared Stoffel
TRC Solutions, Inc.
10 Desta Drive
Suite #130E
Midland, Texas 79705

Generated 8/9/2023 6:24:42 PM

JOB DESCRIPTION

Hobbs Station T5202
SDG NUMBER Hobbs Station

JOB NUMBER

890-5025-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Table of Contents

Definitions/Glossary

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Job ID: 890-5025-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5025-1

Receipt
The samples were received on 8/2/2023 2:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

GC/MS VOA
Method 8260C: Surrogate recovery for the following sample was outside the upper control limit: (860-54697-B-22). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed. Surrogate 4-Bromofluorobenzene is not associated with target analyte(s).

Method 8260C: Sample is in a bulk jar.(880-31511-A-3-M) and (880-31511-A-3-L MS)

Method 8260C: The following sample was diluted due to it being a sludge: SB-4 @40' (890-5025-5). Elevated reporting limits (RL) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: The following samples were diluted due to it being a filter: (830-4031-A-1-D) and (830-4031-A-1-D MS). Elevated reporting limits (RL) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: The following sample was diluted due to it being rocks: SB-4 @30' (890-5025-3). Elevated reporting limits (RL) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: Sample is in a bulk jar.SB-4 @20' (890-5025-1), SB-4 @25' (890-5025-2), SB-4 @35' (890-5025-4) and DUP-1 (890-5025-10)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-59649 and analytical batch 880-59688 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Client Sample ID: SB-4 @20'

Lab Sample ID: 890-5025-1
Matrix: Solid
Date Collected: 08/01/23 13:50
Date Received: 08/02/23 14:25
Sample Depth: 20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000990	U	0.000990		mg/Kg		08/07/23 10:13	08/07/23 13:30	1
Toluene	<0.00495	U	0.00495		mg/Kg		08/07/23 10:13	08/07/23 13:30	1
Ethylbenzene	**0.00725**		0.000990		mg/Kg		08/07/23 10:13	08/07/23 13:30	1
m,p-Xylenes	**0.0111**		0.00198		mg/Kg		08/07/23 10:13	08/07/23 13:30	1
o-Xylene	**0.00743**		0.000990		mg/Kg		08/07/23 10:13	08/07/23 13:30	1
Xylenes, Total	**0.0185**		0.00198		mg/Kg		08/07/23 10:13	08/07/23 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*56 - 150*	*08/07/23 10:13*	*08/07/23 13:30*	*1*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*	*08/07/23 10:13*	*08/07/23 13:30*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*08/07/23 10:13*	*08/07/23 13:30*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*08/07/23 10:13*	*08/07/23 13:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0258**		0.00198		mg/Kg			08/08/23 17:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**51.3**		50.4		mg/Kg			08/09/23 18:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *-	50.4		mg/Kg		08/08/23 15:08	08/09/23 11:34	1
Diesel Range Organics (Over C10-C28)	**51.3**		50.4		mg/Kg		08/08/23 15:08	08/09/23 11:34	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/08/23 15:08	08/09/23 11:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*81*		*70 - 130*	*08/08/23 15:08*	*08/09/23 11:34*	*1*
o-Terphenyl (Surr)	*82*		*70 - 130*	*08/08/23 15:08*	*08/09/23 11:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.7**		4.98		mg/Kg			08/07/23 21:45	1

Client Sample ID: SB-4 @25'

Lab Sample ID: 890-5025-2
Matrix: Solid
Date Collected: 08/01/23 13:55
Date Received: 08/02/23 14:25
Sample Depth: 25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00267**		0.00100		mg/Kg		08/07/23 10:13	08/07/23 13:53	1
Toluene	<0.00502	U	0.00502		mg/Kg		08/07/23 10:13	08/07/23 13:53	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		08/07/23 10:13	08/07/23 13:53	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		08/07/23 10:13	08/07/23 13:53	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		08/07/23 10:13	08/07/23 13:53	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		08/07/23 10:13	08/07/23 13:53	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Client Sample ID: SB-4 @25'

Lab Sample ID: 890-5025-2
Matrix: Solid
Date Collected: 08/01/23 13:55
Date Received: 08/02/23 14:25
Sample Depth: 25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*56 - 150*	*08/07/23 10:13*	*08/07/23 13:53*	*1*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*	*08/07/23 10:13*	*08/07/23 13:53*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*08/07/23 10:13*	*08/07/23 13:53*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*08/07/23 10:13*	*08/07/23 13:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00267**		0.00201	mg/Kg			08/08/23 17:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			08/09/23 18:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *-	49.7	mg/Kg		08/08/23 15:08	08/09/23 11:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		08/08/23 15:08	08/09/23 11:58	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/08/23 15:08	08/09/23 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*86*		*70 - 130*	*08/08/23 15:08*	*08/09/23 11:58*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*08/08/23 15:08*	*08/09/23 11:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.5**		5.04	mg/Kg			08/07/23 21:53	1

Client Sample ID: SB-4 @30'

Lab Sample ID: 890-5025-3
Matrix: Solid
Date Collected: 08/01/23 14:00
Date Received: 08/02/23 14:25
Sample Depth: 30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0504	U	0.0504	mg/Kg		08/07/23 10:13	08/07/23 13:59	50
Toluene	<0.252	U	0.252	mg/Kg		08/07/23 10:13	08/07/23 13:59	50
Ethylbenzene	<0.0504	U	0.0504	mg/Kg		08/07/23 10:13	08/07/23 13:59	50
m,p-Xylenes	<0.101	U	0.101	mg/Kg		08/07/23 10:13	08/07/23 13:59	50
o-Xylene	<0.0504	U	0.0504	mg/Kg		08/07/23 10:13	08/07/23 13:59	50
Xylenes, Total	<0.101	U	0.101	mg/Kg		08/07/23 10:13	08/07/23 13:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*	*08/07/23 10:13*	*08/07/23 13:59*	*50*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*	*08/07/23 10:13*	*08/07/23 13:59*	*50*
Dibromofluoromethane (Surr)	*90*		*53 - 142*	*08/07/23 10:13*	*08/07/23 13:59*	*50*
Toluene-d8 (Surr)	*99*		*70 - 130*	*08/07/23 10:13*	*08/07/23 13:59*	*50*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.101	U	0.101	mg/Kg			08/08/23 17:21	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Client Sample ID: SB-4 @30'

Lab Sample ID: 890-5025-3
Matrix: Solid
Date Collected: 08/01/23 14:00
Date Received: 08/02/23 14:25
Sample Depth: 30

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			08/09/23 18:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *-	50.4		mg/Kg		08/08/23 15:08	08/09/23 12:21	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/08/23 15:08	08/09/23 12:21	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/08/23 15:08	08/09/23 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*08/08/23 15:08*	*08/09/23 12:21*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*08/08/23 15:08*	*08/09/23 12:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.5**		5.02		mg/Kg			08/07/23 22:00	1

Client Sample ID: SB-4 @35'

Lab Sample ID: 890-5025-4
Matrix: Solid
Date Collected: 08/01/23 14:25
Date Received: 08/02/23 14:25
Sample Depth: 35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		08/07/23 10:13	08/07/23 14:48	1
Toluene	<0.00496	U	0.00496		mg/Kg		08/07/23 10:13	08/07/23 14:48	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		08/07/23 10:13	08/07/23 14:48	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		08/07/23 10:13	08/07/23 14:48	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		08/07/23 10:13	08/07/23 14:48	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		08/07/23 10:13	08/07/23 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*56 - 150*	*08/07/23 10:13*	*08/07/23 14:48*	*1*
4-Bromofluorobenzene (Surr)	*115*		*68 - 152*	*08/07/23 10:13*	*08/07/23 14:48*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*08/07/23 10:13*	*08/07/23 14:48*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*	*08/07/23 10:13*	*08/07/23 14:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			08/08/23 17:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/09/23 18:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	49.8		mg/Kg		08/08/23 15:08	08/09/23 12:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/23 15:08	08/09/23 12:44	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Client Sample ID: SB-4 @35'
Lab Sample ID: 890-5025-4
Matrix: Solid
Date Collected: 08/01/23 14:25
Date Received: 08/02/23 14:25
Sample Depth: 35

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/23 15:08	08/09/23 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*08/08/23 15:08*	*08/09/23 12:44*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*08/08/23 15:08*	*08/09/23 12:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**49.9**		5.05		mg/Kg			08/07/23 22:07	1

Client Sample ID: SB-4 @40'
Lab Sample ID: 890-5025-5
Matrix: Solid
Date Collected: 08/01/23 14:30
Date Received: 08/02/23 14:25
Sample Depth: 40

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0505	U	0.0505		mg/Kg		08/07/23 10:13	08/07/23 12:44	50
Toluene	<0.253	U	0.253		mg/Kg		08/07/23 10:13	08/07/23 12:44	50
Ethylbenzene	<0.0505	U	0.0505		mg/Kg		08/07/23 10:13	08/07/23 12:44	50
m,p-Xylenes	<0.101	U	0.101		mg/Kg		08/07/23 10:13	08/07/23 12:44	50
o-Xylene	<0.0505	U	0.0505		mg/Kg		08/07/23 10:13	08/07/23 12:44	50
Xylenes, Total	<0.101	U	0.101		mg/Kg		08/07/23 10:13	08/07/23 12:44	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*56 - 150*	*08/07/23 10:13*	*08/07/23 12:44*	*50*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*	*08/07/23 10:13*	*08/07/23 12:44*	*50*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*08/07/23 10:13*	*08/07/23 12:44*	*50*
Toluene-d8 (Surr)	*104*		*70 - 130*	*08/07/23 10:13*	*08/07/23 12:44*	*50*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.101	U	0.101		mg/Kg			08/08/23 17:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			08/09/23 18:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *-	50.2		mg/Kg		08/08/23 15:08	08/09/23 13:08	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		08/08/23 15:08	08/09/23 13:08	1
Oll Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		08/08/23 15:08	08/09/23 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*08/08/23 15:08*	*08/09/23 13:08*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*08/08/23 15:08*	*08/09/23 13:08*	*1*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Client Sample ID: SB-4 @40'

Lab Sample ID: 890-5025-5
Matrix: Solid
Date Collected: 08/01/23 14:30
Date Received: 08/02/23 14:25
Sample Depth: 40

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.7		5.04		mg/Kg			08/07/23 22:28	1

Client Sample ID: DUP-1

Lab Sample ID: 890-5025-10
Matrix: Solid
Date Collected: 08/01/23 00:00
Date Received: 08/02/23 14:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		08/07/23 10:13	08/07/23 14:15	1
Toluene	<0.00498	U	0.00498		mg/Kg		08/07/23 10:13	08/07/23 14:15	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		08/07/23 10:13	08/07/23 14:15	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		08/07/23 10:13	08/07/23 14:15	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		08/07/23 10:13	08/07/23 14:15	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		08/07/23 10:13	08/07/23 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*56 - 150*	*08/07/23 10:13*	*08/07/23 14:15*	*1*
4-Bromofluorobenzene (Surr)	*112*		*68 - 152*	*08/07/23 10:13*	*08/07/23 14:15*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*	*08/07/23 10:13*	*08/07/23 14:15*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*	*08/07/23 10:13*	*08/07/23 14:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			08/08/23 17:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			08/09/23 18:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U *-	49.6		mg/Kg		08/08/23 15:08	08/09/23 13:32	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		08/08/23 15:08	08/09/23 13:32	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		08/08/23 15:08	08/09/23 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*87*		*70 - 130*	*08/08/23 15:08*	*08/09/23 13:32*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*08/08/23 15:08*	*08/09/23 13:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.8		5.00		mg/Kg			08/07/23 22:35	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Client Sample ID: TB-08-02-23-01

Date Collected: 08/01/23 00:00
Date Received: 08/02/23 14:25

Lab Sample ID: 890-5025-11

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			08/07/23 13:38	1
Toluene	<0.00100	U	0.00100		mg/L			08/07/23 13:38	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			08/07/23 13:38	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			08/07/23 13:38	1
o-Xylene	<0.00100	U	0.00100		mg/L			08/07/23 13:38	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			08/07/23 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*63 - 144*		*08/07/23 13:38*	*1*
4-Bromofluorobenzene (Surr)	*124*		*74 - 124*		*08/07/23 13:38*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*08/07/23 13:38*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*08/07/23 13:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L			08/08/23 14:26	1

Surrogate Summary

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
830-4031-A-1-D MS	Matrix Spike	94	105	102	98
880-31511-A-3-L MS	Matrix Spike	86	109	100	104
890-5025-1	SB-4 @20'	87	109	100	102
890-5025-2	SB-4 @25'	87	109	99	102
890-5025-3	SB-4 @30'	98	101	90	99
890-5025-4	SB-4 @35'	87	115	99	102
890-5025-5	SB-4 @40'	86	109	97	104
890-5025-10	DUP-1	89	112	99	103
LCS 860-115941/3	Lab Control Sample	97	101	102	96
LCS 860-115944/3	Lab Control Sample	85	111	98	105
LCSD 860-115941/4	Lab Control Sample Dup	104	96	103	96
LCSD 860-115944/4	Lab Control Sample Dup	84	110	98	106
MB 860-115941/9	Method Blank	108	98	102	95
MB 860-115944/7	Method Blank	88	110	99	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-120)
860-54697-C-22 MS	Matrix Spike	103	100	105	104
890-5025-11	TB-08-02-23-01	91	124	106	104
LCS 860-115989/3	Lab Control Sample	104	100	101	100
LCSD 860-115989/4	Lab Control Sample Dup	103	101	107	101
MB 860-115989/9	Method Blank	93	119	107	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-5013-A-1-H MS	Matrix Spike	84	72
890-5013-A-1-I MSD	Matrix Spike Duplicate	85	72
890-5025-1	SB-4 @20'	81	82
890-5025-2	SB-4 @25'	86	91
890-5025-3	SB-4 @30'	87	91
890-5025-4	SB-4 @35'	90	92

Surrogate Summary

Client: TRC Solutions, Inc. Job ID: 890-5025-1
Project/Site: Hobbs Station T5202 SDG: Hobbs Station

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-5025-5	SB-4 @40'	83	87								
890-5025-10	DUP-1	87	94								
LCS 880-59649/2-A	Lab Control Sample	95	92								
LCSD 880-59649/3-A	Lab Control Sample Dup	86	80								
MB 880-59649/1-A	Method Blank	70	73								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 830-4031-A-1-D MS
Matrix: Solid
Analysis Batch: 115941

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 115747

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.255	U	12.8	11.67		mg/Kg		91	71 - 119
Toluene	<1.28	U	12.8	11.39		mg/Kg		89	74 - 122
Ethylbenzene	<0.255	U	12.8	12.09		mg/Kg		95	80 - 123
m,p-Xylenes	<0.510	U	12.8	12.48		mg/Kg		98	78 - 127
o-Xylene	<0.255	U	12.8	12.28		mg/Kg		96	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*
4-Bromofluorobenzene (Surr)	*105*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 860-115941/9
Matrix: Solid
Analysis Batch: 115941

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			08/07/23 12:35	1
Toluene	<0.00500	U	0.00500		mg/Kg			08/07/23 12:35	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			08/07/23 12:35	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			08/07/23 12:35	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			08/07/23 12:35	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			08/07/23 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*56 - 150*		*08/07/23 12:35*	*1*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*		*08/07/23 12:35*	*1*
Dibromofluoromethane (Surr)	*102*		*53 - 142*		*08/07/23 12:35*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*08/07/23 12:35*	*1*

Lab Sample ID: LCS 860-115941/3
Matrix: Solid
Analysis Batch: 115941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05331		mg/Kg		107	66 - 142
Toluene	0.0500	0.05023		mg/Kg		100	74 - 130
Ethylbenzene	0.0500	0.05448		mg/Kg		109	80 - 130
m,p-Xylenes	0.0500	0.05571		mg/Kg		111	78 - 130
o-Xylene	0.0500	0.05500		mg/Kg		110	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*56 - 150*
4-Bromofluorobenzene (Surr)	*101*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*96*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-115941/4
Matrix: Solid
Analysis Batch: 115941

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.05105		mg/Kg		102	66 - 142	4	25
Toluene			0.0500	0.04868		mg/Kg		97	74 - 130	3	25
Ethylbenzene			0.0500	0.05239		mg/Kg		105	80 - 130	4	25
m,p-Xylenes			0.0500	0.05252		mg/Kg		105	78 - 130	6	25
o-Xylene			0.0500	0.05362		mg/Kg		107	79 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*
Dibromofluoromethane (Surr)	*103*		*53 - 142*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: MB 860-115944/7
Matrix: Solid
Analysis Batch: 115944

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			08/07/23 10:49	1
Toluene	<0.00500	U	0.00500		mg/Kg			08/07/23 10:49	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			08/07/23 10:49	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			08/07/23 10:49	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			08/07/23 10:49	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			08/07/23 10:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*56 - 150*		*08/07/23 10:49*	*1*
4-Bromofluorobenzene (Surr)	*110*		*68 - 152*		*08/07/23 10:49*	*1*
Dibromofluoromethane (Surr)	*99*		*53 - 142*		*08/07/23 10:49*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*08/07/23 10:49*	*1*

Lab Sample ID: LCS 860-115944/3
Matrix: Solid
Analysis Batch: 115944

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.0500	0.05874		mg/Kg		117	66 - 142
Toluene			0.0500	0.05467		mg/Kg		109	74 - 130
Ethylbenzene			0.0500	0.05228		mg/Kg		105	80 - 130
m,p-Xylenes			0.0500	0.05082		mg/Kg		102	78 - 130
o-Xylene			0.0500	0.05154		mg/Kg		103	79 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*56 - 150*
4-Bromofluorobenzene (Surr)	*111*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*105*		*70 - 130*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-115944/4
Matrix: Solid
Analysis Batch: 115944

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04609		mg/Kg		92	66 - 142	24	25
Toluene			0.0500	0.04301		mg/Kg		86	74 - 130	24	25
Ethylbenzene			0.0500	0.04106		mg/Kg		82	80 - 130	24	25
m,p-Xylenes			0.0500	0.03961		mg/Kg		79	78 - 130	25	25
o-Xylene			0.0500	0.04108		mg/Kg		82	79 - 130	23	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*56 - 150*
4-Bromofluorobenzene (Surr)	*110*		*68 - 152*
Dibromofluoromethane (Surr)	*98*		*53 - 142*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-31511-A-3-L MS
Matrix: Solid
Analysis Batch: 115944

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 115969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000992	U	0.0497	0.04858		mg/Kg		98	71 - 119
Toluene	<0.00496	U	0.0497	0.04560		mg/Kg		92	74 - 122
Ethylbenzene	<0.000992	U	0.0497	0.04378		mg/Kg		88	80 - 123
m,p-Xylenes	<0.00198	U	0.0497	0.04300		mg/Kg		87	78 - 127
o-Xylene	<0.000992	U	0.0497	0.04386		mg/Kg		88	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*56 - 150*
4-Bromofluorobenzene (Surr)	*109*		*68 - 152*
Dibromofluoromethane (Surr)	*100*		*53 - 142*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 860-115989/9
Matrix: Water
Analysis Batch: 115989

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			08/07/23 13:18	1
Toluene	<0.00100	U	0.00100		mg/L			08/07/23 13:18	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			08/07/23 13:18	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			08/07/23 13:18	1
o-Xylene	<0.00100	U	0.00100		mg/L			08/07/23 13:18	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			08/07/23 13:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*63 - 144*		*08/07/23 13:18*	*1*
4-Bromofluorobenzene (Surr)	*119*		*74 - 124*		*08/07/23 13:18*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 131*		*08/07/23 13:18*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/07/23 13:18*	*1*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-115989/3
Matrix: Water
Analysis Batch: 115989

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04863		mg/L		97	75 - 125		
Toluene			0.0500	0.04939		mg/L		99	70 - 130		
Ethylbenzene			0.0500	0.04764		mg/L		95	75 - 125		
m,p-Xylenes			0.0500	0.04743		mg/L		95	75 - 125		
o-Xylene			0.0500	0.04808		mg/L		96	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*101*		*75 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 860-115989/4
Matrix: Water
Analysis Batch: 115989

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.05147		mg/L		103	75 - 125	6	25
Toluene			0.0500	0.05180		mg/L		104	70 - 130	5	25
Ethylbenzene			0.0500	0.04949		mg/L		99	75 - 125	4	25
m,p-Xylenes			0.0500	0.04982		mg/L		100	75 - 125	5	25
o-Xylene			0.0500	0.04942		mg/L		99	75 - 125	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*107*		*75 - 131*
Toluene-d8 (Surr)	*101*		*80 - 120*

Lab Sample ID: 860-54697-C-22 MS
Matrix: Water
Analysis Batch: 115989

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00100	U	0.0500	0.05224		mg/L		104	66 - 142		
Toluene	<0.00100	U	0.0500	0.05359		mg/L		107	59 - 139		
Ethylbenzene	<0.00100	U	0.0500	0.05163		mg/L		103	75 - 125		
m,p-Xylenes	<0.0100	U	0.0500	0.05181		mg/L		104	75 - 125		
o-Xylene	<0.00100	U	0.0500	0.05076		mg/L		102	75 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*63 - 144*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*105*		*75 - 131*
Toluene-d8 (Surr)	*104*		*80 - 120*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-59649/1-A
Matrix: Solid
Analysis Batch: 59688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59649

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/08/23 15:08	08/09/23 07:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/23 15:08	08/09/23 07:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/23 15:08	08/09/23 07:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*70*		*70 - 130*	*08/08/23 15:08*	*08/09/23 07:43*	*1*
o-Terphenyl (Surr)	*73*		*70 - 130*	*08/08/23 15:08*	*08/09/23 07:43*	*1*

Lab Sample ID: LCS 880-59649/2-A
Matrix: Solid
Analysis Batch: 59688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59649

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	682.9	*-	mg/Kg		68	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	846.5		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*95*		*70 - 130*
o-Terphenyl (Surr)	*92*		*70 - 130*

Lab Sample ID: LCSD 880-59649/3-A
Matrix: Solid
Analysis Batch: 59688

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59649

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	685.2	*-	mg/Kg		69	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	808.7		mg/Kg		81	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*86*		*70 - 130*
o-Terphenyl (Surr)	*80*		*70 - 130*

Lab Sample ID: 890-5013-A-1-H MS
Matrix: Solid
Analysis Batch: 59688

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 59649

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *-	993	730.9		mg/Kg		74	70 - 130		
Diesel Range Organics (Over C10-C28)	195		993	1030		mg/Kg		84	70 - 130		

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-5013-A-1-H MS
Matrix: Solid
Analysis Batch: 59688

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 59649

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	84		70 - 130
o-Terphenyl (Surr)	72		70 - 130

Lab Sample ID: 890-5013-A-1-I MSD
Matrix: Solid
Analysis Batch: 59688

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 59649

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *-	993	753.7		mg/Kg		76	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	195		993	1046		mg/Kg		86	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	85		70 - 130
o-Terphenyl (Surr)	72		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-59300/1-A
Matrix: Solid
Analysis Batch: 59516

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/08/23 14:06	1

Lab Sample ID: LCS 880-59300/2-A
Matrix: Solid
Analysis Batch: 59516

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.0		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-59300/3-A
Matrix: Solid
Analysis Batch: 59516

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	241.1		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 890-5025-1 MS
Matrix: Solid
Analysis Batch: 59516

Client Sample ID: SB-4 @20'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	40.1		252	287.9		mg/Kg		98	90 - 110		

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-5025-1 MSD
Matrix: Solid
Analysis Batch: 59516

Client Sample ID: SB-4 @20'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	40.1		252	285.5		mg/Kg		97	90 - 110	1	20

Lab Sample ID: MB 880-59533/1-A
Matrix: Solid
Analysis Batch: 59608

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/07/23 20:06	1

Lab Sample ID: LCS 880-59533/2-A
Matrix: Solid
Analysis Batch: 59608

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.9		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-59533/3-A
Matrix: Solid
Analysis Batch: 59608

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	261.8		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-5025-4 MS
Matrix: Solid
Analysis Batch: 59608

Client Sample ID: SB-4 @35'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	49.9		253	298.9		mg/Kg		99	90 - 110		

Lab Sample ID: 890-5025-4 MSD
Matrix: Solid
Analysis Batch: 59608

Client Sample ID: SB-4 @35'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	49.9		253	298.9		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

GC/MS VOA

Prep Batch: 115747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
830-4031-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 115941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-3	SB-4 @30'	Total/NA	Solid	8260C	115969
MB 860-115941/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-115941/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-115941/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
830-4031-A-1-D MS	Matrix Spike	Total/NA	Solid	8260C	115747

Analysis Batch: 115944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-1	SB-4 @20'	Total/NA	Solid	8260C	115969
890-5025-2	SB-4 @25'	Total/NA	Solid	8260C	115969
890-5025-4	SB-4 @35'	Total/NA	Solid	8260C	115969
890-5025-5	SB-4 @40'	Total/NA	Solid	8260C	115969
890-5025-10	DUP-1	Total/NA	Solid	8260C	115969
MB 860-115944/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-115944/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-115944/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
880-31511-A-3-L MS	Matrix Spike	Total/NA	Solid	8260C	115969

Prep Batch: 115969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-1	SB-4 @20'	Total/NA	Solid	5035	
890-5025-2	SB-4 @25'	Total/NA	Solid	5035	
890-5025-3	SB-4 @30'	Total/NA	Solid	5035	
890-5025-4	SB-4 @35'	Total/NA	Solid	5035	
890-5025-5	SB-4 @40'	Total/NA	Solid	5035	
890-5025-10	DUP-1	Total/NA	Solid	5035	
880-31511-A-3-L MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 115989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-11	TB-08-02-23-01	Total/NA	Water	8260C	
MB 860-115989/9	Method Blank	Total/NA	Water	8260C	
LCS 860-115989/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-115989/4	Lab Control Sample Dup	Total/NA	Water	8260C	
860-54697-C-22 MS	Matrix Spike	Total/NA	Water	8260C	

Analysis Batch: 116261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-11	TB-08-02-23-01	Total/NA	Water	Total BTEX	

Analysis Batch: 116299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-1	SB-4 @20'	Total/NA	Solid	Total BTEX	
890-5025-2	SB-4 @25'	Total/NA	Solid	Total BTEX	
890-5025-3	SB-4 @30'	Total/NA	Solid	Total BTEX	
890-5025-4	SB-4 @35'	Total/NA	Solid	Total BTEX	
890-5025-5	SB-4 @40'	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

GC/MS VOA (Continued)

Analysis Batch: 116299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-10	DUP-1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 59649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-1	SB-4 @20'	Total/NA	Solid	8015NM Prep	
890-5025-2	SB-4 @25'	Total/NA	Solid	8015NM Prep	
890-5025-3	SB-4 @30'	Total/NA	Solid	8015NM Prep	
890-5025-4	SB-4 @35'	Total/NA	Solid	8015NM Prep	
890-5025-5	SB-4 @40'	Total/NA	Solid	8015NM Prep	
890-5025-10	DUP-1	Total/NA	Solid	8015NM Prep	
MB 880-59649/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59649/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5013-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5013-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 59688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-1	SB-4 @20'	Total/NA	Solid	8015B NM	59649
890-5025-2	SB-4 @25'	Total/NA	Solid	8015B NM	59649
890-5025-3	SB-4 @30'	Total/NA	Solid	8015B NM	59649
890-5025-4	SB-4 @35'	Total/NA	Solid	8015B NM	59649
890-5025-5	SB-4 @40'	Total/NA	Solid	8015B NM	59649
890-5025-10	DUP-1	Total/NA	Solid	8015B NM	59649
MB 880-59649/1-A	Method Blank	Total/NA	Solid	8015B NM	59649
LCS 880-59649/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59649
LCSD 880-59649/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59649
890-5013-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	59649
890-5013-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	59649

Analysis Batch: 59790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-1	SB-4 @20'	Total/NA	Solid	8015 NM	
890-5025-2	SB-4 @25'	Total/NA	Solid	8015 NM	
890-5025-3	SB-4 @30'	Total/NA	Solid	8015 NM	
890-5025-4	SB-4 @35'	Total/NA	Solid	8015 NM	
890-5025-5	SB-4 @40'	Total/NA	Solid	8015 NM	
890-5025-10	DUP-1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 59300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59300/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59300/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59300/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5025-1 MS	SB-4 @20'	Soluble	Solid	DI Leach	
890-5025-1 MSD	SB-4 @20'	Soluble	Solid	DI Leach	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

HPLC/IC

Analysis Batch: 59516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-59300/1-A	Method Blank	Soluble	Solid	300.0	59300
LCS 880-59300/2-A	Lab Control Sample	Soluble	Solid	300.0	59300
LCSD 880-59300/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59300
890-5025-1 MS	SB-4 @20'	Soluble	Solid	300.0	59300
890-5025-1 MSD	SB-4 @20'	Soluble	Solid	300.0	59300

Leach Batch: 59533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-1	SB-4 @20'	Soluble	Solid	DI Leach	
890-5025-2	SB-4 @25'	Soluble	Solid	DI Leach	
890-5025-3	SB-4 @30'	Soluble	Solid	DI Leach	
890-5025-4	SB-4 @35'	Soluble	Solid	DI Leach	
890-5025-5	SB-4 @40'	Soluble	Solid	DI Leach	
890-5025-10	DUP-1	Soluble	Solid	DI Leach	
MB 880-59533/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-59533/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-59533/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5025-4 MS	SB-4 @35'	Soluble	Solid	DI Leach	
890-5025-4 MSD	SB-4 @35'	Soluble	Solid	DI Leach	

Analysis Batch: 59608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5025-1	SB-4 @20'	Soluble	Solid	300.0	59533
890-5025-2	SB-4 @25'	Soluble	Solid	300.0	59533
890-5025-3	SB-4 @30'	Soluble	Solid	300.0	59533
890-5025-4	SB-4 @35'	Soluble	Solid	300.0	59533
890-5025-5	SB-4 @40'	Soluble	Solid	300.0	59533
890-5025-10	DUP-1	Soluble	Solid	300.0	59533
MB 880-59533/1-A	Method Blank	Soluble	Solid	300.0	59533
LCS 880-59533/2-A	Lab Control Sample	Soluble	Solid	300.0	59533
LCSD 880-59533/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	59533
890-5025-4 MS	SB-4 @35'	Soluble	Solid	300.0	59533
890-5025-4 MSD	SB-4 @35'	Soluble	Solid	300.0	59533

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Client Sample ID: SB-4 @20'
Date Collected: 08/01/23 13:50
Date Received: 08/02/23 14:25

Lab Sample ID: 890-5025-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	115969	08/07/23 10:13	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	115944	08/07/23 13:30	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			116299	08/08/23 17:21	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			59790	08/09/23 18:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	59649	08/08/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59688	08/09/23 11:34	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	59533	08/07/23 12:00	CH	EET MID
Soluble	Analysis	300.0		1			59608	08/07/23 21:45	CH	EET MID

Client Sample ID: SB-4 @25'
Date Collected: 08/01/23 13:55
Date Received: 08/02/23 14:25

Lab Sample ID: 890-5025-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	115969	08/07/23 10:13	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	115944	08/07/23 13:53	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			116299	08/08/23 17:21	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			59790	08/09/23 18:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	59649	08/08/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59688	08/09/23 11:58	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59533	08/07/23 12:00	CH	EET MID
Soluble	Analysis	300.0		1			59608	08/07/23 21:53	CH	EET MID

Client Sample ID: SB-4 @30'
Date Collected: 08/01/23 14:00
Date Received: 08/02/23 14:25

Lab Sample ID: 890-5025-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	115969	08/07/23 10:13	MTMG	EET HOU
Total/NA	Analysis	8260C		50	5 mL	5 mL	115941	08/07/23 13:59	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			116299	08/08/23 17:21	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			59790	08/09/23 18:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	59649	08/08/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59688	08/09/23 12:21	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	59533	08/07/23 12:00	CH	EET MID
Soluble	Analysis	300.0		1			59608	08/07/23 22:00	CH	EET MID

Client Sample ID: SB-4 @35'
Date Collected: 08/01/23 14:25
Date Received: 08/02/23 14:25

Lab Sample ID: 890-5025-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	115969	08/07/23 10:13	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	115944	08/07/23 14:48	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			116299	08/08/23 17:21	KLV	EET HOU

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Client Sample ID: SB-4 @35'
Date Collected: 08/01/23 14:25
Date Received: 08/02/23 14:25

Lab Sample ID: 890-5025-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			59790	08/09/23 18:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	59649	08/08/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59688	08/09/23 12:44	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	59533	08/07/23 12:00	CH	EET MID
Soluble	Analysis	300.0		1			59608	08/07/23 22:07	CH	EET MID

Client Sample ID: SB-4 @40'
Date Collected: 08/01/23 14:30
Date Received: 08/02/23 14:25

Lab Sample ID: 890-5025-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	115969	08/07/23 10:13	MTMG	EET HOU
Total/NA	Analysis	8260C		50	5 mL	5 mL	115944	08/07/23 12:44	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			116299	08/08/23 17:21	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			59790	08/09/23 18:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	59649	08/08/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59688	08/09/23 13:08	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	59533	08/07/23 12:00	CH	EET MID
Soluble	Analysis	300.0		1			59608	08/07/23 22:28	CH	EET MID

Client Sample ID: DUP-1
Date Collected: 08/01/23 00:00
Date Received: 08/02/23 14:25

Lab Sample ID: 890-5025-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	115969	08/07/23 10:13	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	115944	08/07/23 14:15	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			116299	08/08/23 17:21	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			59790	08/09/23 18:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59649	08/08/23 15:08	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59688	08/09/23 13:32	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	59533	08/07/23 12:00	CH	EET MID
Soluble	Analysis	300.0		1			59608	08/07/23 22:35	CH	EET MID

Client Sample ID: TB-08-02-23-01
Date Collected: 08/01/23 00:00
Date Received: 08/02/23 14:25

Lab Sample ID: 890-5025-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	115989	08/07/23 13:38	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			116261	08/08/23 14:26	JBS	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Solid	Total BTEX
Total BTEX		Water	Total BTEX

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Method Summary

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5030C	Purge and Trap	SW846	EET HOU
5035	Closed System Purge and Trap	SW846	EET HOU
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: TRC Solutions, Inc.
Project/Site: Hobbs Station T5202

Job ID: 890-5025-1
SDG: Hobbs Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5025-1	SB-4 @20'	Solid	08/01/23 13:50	08/02/23 14:25	20
890-5025-2	SB-4 @25'	Solid	08/01/23 13:55	08/02/23 14:25	25
890-5025-3	SB-4 @30'	Solid	08/01/23 14:00	08/02/23 14:25	30
890-5025-4	SB-4 @35'	Solid	08/01/23 14:25	08/02/23 14:25	35
890-5025-5	SB-4 @40'	Solid	08/01/23 14:30	08/02/23 14:25	40
890-5025-10	DUP-1	Solid	08/01/23 00:00	08/02/23 14:25	
890-5025-11	TB-08-02-23-01	Water	08/01/23 00:00	08/02/23 14:25	

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: ______________

www.xenco.com Page 1 of 2

Project Manager:	Jared Stoffel	Bill to: (if different)	
Company Name:	TRC Companies	Company Name:	
Address:	505 Huntland Dr 250	Address:	
City, State ZIP:	Austin, TX 78752	~~City, State ZIP:~~	Also email bgilbert@trccompanies.com
Phone:	~~512~~ 432-238-3003	Email:	jstoffel@trccompanies.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Hobbs Station TS202	Turn Around	
Project Number:	528833.0000.0000	☑ Routine	☐ Rush
Project Location:	Hobbs Station TS202	Due Date:	
Sampler's Name:	Robert Nieheny	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TWM007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.4
Total Containers:		Corrected Temperature:	2.2

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BTEX (8260)	TPH (GRO/DRO/MRO) 8015	~~T.B. VOCs~~	Chloride (300.0)	*Hold	Sample Comments
SB-4 @ 20'	S	080123	1350	20'	G	1	X	X		X		
SB-4 @ 25'	S	↓	1355	25'	↓	↓	X	X		X		
SB-4 @ 30'	S		1400	30'			X	X		X		
SB-4 @ 35'	S		1425	35'			X	X		X		
SB-4 @ 40'	S		1430	40'			X	X		X		
SB-4 @ 42.5'	S		1450	42.5'			X	X		X	X	*Hold*
SB-4 @ 45'	S		1630	45'			X	X		X	X	↓
SB-4 @ 47.5'	S		1635	47.5'			X	X		X	XX	
SB-4 @ 50'	S		1640	50'			X	X		X	X	*Hold* for initial results
DUP-1	S	080123	0000	—	G	1	X	X		X		

Preservative Codes
None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCl: HC — HNO_3: HN
NaOH: Na
SAPC

890-5025 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 [signature]	[signature]	8-2-23 1425	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Jared Stoffel	Bill to: (if different)	
Company Name:	TRC Companies	Company Name:	
Address:	505 Huntland Dr Ste 250	Address:	
City, State ZIP:	Austin, TX 78752	City, State ZIP:	also email bgilbert@trccompanies.com
Phone:	432-238-3003	Email:	jstoffel@trccompanies.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Hobbs Station TS20	Turn Around	
Project Number:	S28833.0000.0000	☑ Routine ☐ Rush	
Project Location:	Hobbs Station TS20	Due Date:	
Sampler's Name:	Robert Nichols	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8260
~~TB-08-02-23-01~~	~~L~~	~~08022~~						
TB-08-02-23-01	L	080223				2	X	X

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			8.23.23 1425			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-1409.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 890-5025-1
Address: 4145 Greenbriar Dr	Due Date Requested: 8/8/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Hobbs Station T5202	Project #: 88000306			
Site:	SSOW#:			

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/5035FP_Calc BTEX	Total_BTEX/ (MOD) Copy Analytes	8260C/5035FP_Calc BTEX (Hold)	Total_BTEX/ (MOD) Copy Analytes (Hold)	8260C/5030C BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SB-4 @20' (890-5025-1)	8/1/23	13:50 Mountain		Solid			X	X				1	
SB-4 @25' (890-5025-2)	8/1/23	13:55 Mountain		Solid			X	X				1	
SB-4 @30' (890-5025-3)	8/1/23	14:00 Mountain		Solid			X	X				1	
SB-4 @35' (890-5025-4)	8/1/23	14:25 Mountain		Solid			X	X				1	
SB-4 @40' (890-5025-5)	8/1/23	14:30 Mountain		Solid			X	X				1	
SB-4 @ 42.5' (890-5025-6)	8/1/23	14:50 Mountain		Solid					X	X		1	
SB-4 @45' (890-5025-7)	8/1/23	16:30 Mountain		Solid					X	X		1	Temp: 16 IR ID:HOU-338 C/F -0.3 Corrected Temp 15.3
SB-4 @47.5' (890-5025-8)	8/1/23	16:35 Mountain		Solid					X	X		1	
SB-4 @50' (890-5025-9)	8/1/23	16:40 Mountain		Solid					X	X		1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	CVR				08/04/23 9:04	E
2	FedEx					
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-1409.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 890-5025-1
Address: 4145 Greenbriar Dr	Due Date Requested: 8/8/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Hobbs Station T5202	Project #: 88000306			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other:

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C/5035FP_Calc BTEX	Total_BTEX (MOD) Copy Analytes	8260C/5035FP_Calc BTEX (Hold)	Total_BTEX (MOD) Copy Analytes (Hold)	8260C/5030C BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
DUP-1 (890-5025-10)	8/1/23	Mountain		Solid			X	X				1	
TB-08-02-23-01 (890-5025-11)	8/1/23	Mountain		Water				X			X	2	

Temp
C/F -0.3
Corrected Temp:
IR ID:HOU-338
1.6
1.3

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
CW				08/04/23 1:01	E.
Relinquished by: FedEx	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: TRC Solutions, Inc.

Job Number: 890-5025-1
SDG Number: Hobbs Station

Login Number: 5025
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: TRC Solutions, Inc.

Job Number: 890-5025-1
SDG Number: Hobbs Station

Login Number: 5025
List Number: 3
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 08/04/23 01:22 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: TRC Solutions, Inc.

Job Number: 890-5025-1
SDG Number: Hobbs Station

Login Number: 5025
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/04/23 10:46 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

TRC

Analytical Data Review Checklist

Site:	Hobbs Station Tank 5202	**Laboratory:**	Eurofins Houston and Eurofins Midland
Location:	Hobbs, NM	**Lab Report #:**	890-5025-1
Client Name:	HEP	**Reviewer:**	A. Eljuri
Project #:	528833	**Peer Reviewer:**	L. Denly
		Review Date:	9/11/2023

Analytical Method(s):	**Matrices Sampled:**	**Sample Collection Date(s):**
BTEX by Method 8260C; TPH (GRO, DRO, ORO, and Total) by Method 8015B NM; Chloride by EPA 300.0	Soil, aqueous quality control (QC) sample	August 1, 2023

Sampling Objective(s):

Collect confirmation soil samples at a release site.

Sample IDs (List IDs or attach COC):

Refer to data package sample summary.

	Review Item or Question	Y	N	NA	Comments
Chain-of-Custody and Data Completeness					
1	Was COC appropriately completed?		X		The initial relinquish time and date from Eurofins Carlsbad to FedEx is missing.
2	Did the laboratory report correct sample IDs?	X			The laboratory did not include spaces after the "@" symbol in the Sample Summary for lab sample IDs 890-5025-1 through 890-5025-5, but the space was used as applicable when referring to the samples in this document.
3	Do the laboratory reported sample collection dates and times agree with the COC forms?		X		The COC listed the sample date for trip blank TB-08-02-23-01 as 8/2/2023 and the Sample Summary lists it as 8/1/2023.
4	Are results reported for all analytical methods requested?	X			The Eurofins Houston laboratory reported Total BTEX (solid and water) and the Eurofins Midland laboratory reported Total TPH (solid), which are not offered for accreditation.
5	Are results reported for all samples submitted for analysis?	X			
6	Were the requested analytical methods used?	X			
7	Are results reported for all target analytes, but no additional analytes?	X			TPH ORO instead of TPH MRO per the COC was reported. The laboratory confirmed TPH ORO and TPH MRO report the same ranges.
8	**SOIL/SEDIMENT ONLY:** Were soil/sediment results reported on a dry weight basis?		X		The site is regulated under the New Mexico Oil Conservation District and reporting results on a dry weight basis is not a project requirement.
9	If requested, were detected results below reporting limit (i.e., "J" values) reported?			X	
10	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sample Preservation					
11a	Did samples arrive at the laboratory appropriately preserved?			X	Trip blank provided by laboratory was preserved with HCl.
11b	Was the cooler temperature between 0-6°C?	X			
11c	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?			X	
11d	**SOIL/SEDIMENT ONLY:** Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?		X		Soil samples were collected in unpreserved bulk jars, which is an acceptable collection method for BTEX and TPH analyses for the New Mexico Oil Conservation District.

TRC

Analytical Data Review Checklist

Review Item or Question		Y	N	NA	Comments
12	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			
13	Were any issues noted by the laboratory upon receipt?		X		
14a	**AIR ONLY:** Were canisters received with an acceptable vacuum?			X	
14b	**AIR ONLY:** Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Holding Times					
15	Were sample preparation and analysis holding time requirements met?	X			
Reporting Limits					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			All non-detect results had reporting limits below project criteria.
17	Were dilutions performed? If so, note sample(s) and parameters(s) affected and the dilution factor(s).	X			SB-4 @ 30' and SB-4 @ 40': BTEX 50-fold
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?	X			The Job Narrative stated dilutions were performed for SB-4 @ 40' because the sample was sludge and for SB-4 @ 30' because the sample was rocks.
QC Results					
Blanks					
19	Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).		X		Trip blank identified as TB-08-02-23-01.
22	Are there any potential false positive results based on questions 19 and/or 21?		X		
Laboratory Control Spikes					
23	Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples.		X		Total xylenes and TPH ORO are not reported in any LCS or LCSD. In analysis batch 59688, the LCS/LCSD recoveries for TPH GRO (68%/69%) were below the laboratory-specified limits (70-130%). Therefore, all the nondetect TPH GRO results may be estimated, biased low.
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples.	X			
Matrix Spikes					
26	Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.	X			MS/MSDs were performed on samples SB-4 @ 20' and SB-4 @ 35' for chloride. MS/MSDs were also performed on non-project samples; non-project sample MS/MSD results were not evaluated during this review.
27	Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was spiked.	X			

TRC

Analytical Data Review Checklist

Review Item or Question		Y	N	NA	Comments
Surrogates					
28	**ORGANIC ANALYSES ONLY:** Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.	X			
Duplicates					
29	Are laboratory duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	
30	Were field duplicate criteria met? If no, list analytes affected, the RPD and/or absolute difference (as applicable), and the associated samples. NOTE: RPD ≤ 50% for soil samples when results are >3x the reporting limit; otherwise, AbsD > 2x reporting limit.		X		Field duplicate pair DUP-1 and SB-4 @ 20' do not meet project criteria for ethylbenzene (AbsD 0.00626 mg/kg), m,p-xylenes (AbsD 0.00912 mg/kg), o-xylene (AbsD 0.00644 mg/kg), total xylenes (AbsD 0.01652 mg/kg), Total BTEX (AbsD 0.02382 mg/kg), and chloride (RPD 72.4%). Therefore, ethylbenzene, m,p-xylenes, o-xylene, total xylenes, Total BTEX, and chloride in DUP-1 and SB-4 @ 20' may be considered estimated.
Do the Data Make Sense?					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences) that have not already been addressed above? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		X		
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
33	Do any results look questionable? If yes, ASK THE LAB.		X		
34	Has the EDD been compared to the lab report?			X	
Additional Comments:					

Notes:
Reference: EPA Superfund Contract Laboratory Program (CLP) National Functional Guidelines (NFGs) for Data Review (November, 2020)

Abbreviations:
AbsD = Absolute Difference
BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes (and isomers)
COC = Chain-of-Custody
DRO = Diesel Range Organics
EDD = Electronic Data Deliverable
GRO = Gasoline Range Organics
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MRO = Motor Range Organics
MS/MSD = Matrix Spike / Matrix Spike Duplicate
NELAP = National Environmental Laboratory Accreditation Program
ORO = Oil Range Organics
QAPP = Quality Assurance Project Plan
QC = Quality Control
%R = Percent Recovery
RPD = Relative Percent Difference = 100% x |(A-B)/((A+B)/2)|
TPH = Total Petroleum Hydrocarbon

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ANALYTICAL REPORT

PREPARED FOR

Attn: Russell Sebring
TRC Solutions, Inc.
10 Desta Drive
Suite #130E
Midland, Texas 79705

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JOB DESCRIPTION

HEP Hobbs Station TK 5202
SDG NUMBER Hobbs Station

JOB NUMBER

880-32748-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Table of Contents

Definitions/Glossary

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Job ID: 880-32748-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-32748-1

Receipt
The samples were received on 8/31/2023 9:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C

GC/MS VOA
Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-119898 and analytical batch 860-120060 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: SB-2 @ 15 (880-32748-1) and (880-32748-B-1-A MS). Elevated reporting limits (RLs) are provided. Sample was prepped with methanol from a bulk jar.

Method 8260C: The following samples were diluted due to it being a sandblast: (860-56384-C-1-A) and (860-56384-C-1-A MS). Elevated reporting limits (RL) are provided. Sample prepped with methanol from a bulk jar.

Method 8260C: Sample is in a bulk jar.SB-2 @ 20 (880-32748-2), SB-2 @ 25 (880-32748-3), SB-2 @ 30 (880-32748-4), SB-2 @ 35 (880-32748-5) and SB-2 @ 40 (880-32748-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-61669 and analytical batch 880-61701 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SB-2 @ 15 (880-32748-1), SB-2 @ 20 (880-32748-2), SB-2 @ 25 (880-32748-3), SB-2 @ 30 (880-32748-4), SB-2 @ 35 (880-32748-5), SB-2 @ 40 (880-32748-6), (880-32748-A-4-C MS) and (880-32748-A-4-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-61701/31) and (CCV 880-61701/47). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-120124 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recovery is within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-61617 and analytical batch 880-61691 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Client Sample ID: SB-2 @ 15

Lab Sample ID: 880-32748-1
Matrix: Solid
Date Collected: 08/30/23 10:15
Date Received: 08/31/23 09:10
Sample Depth: 15

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	9.56		1.00		mg/Kg		09/01/23 13:49	09/05/23 12:21	1000
Toluene	62.1	F1	5.01		mg/Kg		09/01/23 13:49	09/05/23 12:21	1000
Ethylbenzene	38.9	F1	1.00		mg/Kg		09/01/23 13:49	09/05/23 12:21	1000
m,p-Xylenes	43.3	F1	2.00		mg/Kg		09/01/23 13:49	09/05/23 12:21	1000
o-Xylene	17.6		1.00		mg/Kg		09/01/23 13:49	09/05/23 12:21	1000
Xylenes, Total	60.9		2.00		mg/Kg		09/01/23 13:49	09/05/23 12:21	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*	*09/01/23 13:49*	*09/05/23 12:21*	*1000*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*09/01/23 13:49*	*09/05/23 12:21*	*1000*
Dibromofluoromethane (Surr)	*104*		*53 - 142*	*09/01/23 13:49*	*09/05/23 12:21*	*1000*
Toluene-d8 (Surr)	*107*		*70 - 130*	*09/01/23 13:49*	*09/05/23 12:21*	*1000*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	171		2.00		mg/Kg			09/05/23 16:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4300		50.5		mg/Kg			09/05/23 12:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1560		50.5		mg/Kg		08/31/23 13:55	09/01/23 21:10	1
Diesel Range Organics (Over C10-C28)	2740		50.5		mg/Kg		08/31/23 13:55	09/01/23 21:10	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		08/31/23 13:55	09/01/23 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*08/31/23 13:55*	*09/01/23 21:10*	*1*
o-Terphenyl	*109*		*70 - 130*	*08/31/23 13:55*	*09/01/23 21:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.2		4.97		mg/Kg			09/01/23 00:26	1

Client Sample ID: SB-2 @ 20

Lab Sample ID: 880-32748-2
Matrix: Solid
Date Collected: 08/30/23 10:30
Date Received: 08/31/23 09:10
Sample Depth: 20

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		09/05/23 09:00	09/05/23 13:52	1
Toluene	<0.00505	U	0.00505		mg/Kg		09/05/23 09:00	09/05/23 13:52	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		09/05/23 09:00	09/05/23 13:52	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		09/05/23 09:00	09/05/23 13:52	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		09/05/23 09:00	09/05/23 13:52	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		09/05/23 09:00	09/05/23 13:52	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Client Sample ID: SB-2 @ 20

Lab Sample ID: 880-32748-2
Matrix: Solid
Date Collected: 08/30/23 10:30
Date Received: 08/31/23 09:10
Sample Depth: 20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*56 - 150*	*09/05/23 09:00*	*09/05/23 13:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*09/05/23 09:00*	*09/05/23 13:52*	*1*
Dibromofluoromethane (Surr)	*100*		*53 - 142*	*09/05/23 09:00*	*09/05/23 13:52*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*09/05/23 09:00*	*09/05/23 13:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202	mg/Kg			09/05/23 16:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**99.6**		50.1	mg/Kg			09/05/23 12:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		08/31/23 13:55	09/01/23 21:53	1
Diesel Range Organics (Over C10-C28)	**99.6**		50.1	mg/Kg		08/31/23 13:55	09/01/23 21:53	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		08/31/23 13:55	09/01/23 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*08/31/23 13:55*	*09/01/23 21:53*	*1*
o-Terphenyl	*119*		*70 - 130*	*08/31/23 13:55*	*09/01/23 21:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.8**		4.96	mg/Kg			09/01/23 00:50	1

Client Sample ID: SB-2 @ 25

Lab Sample ID: 880-32748-3
Matrix: Solid
Date Collected: 08/30/23 10:45
Date Received: 08/31/23 09:10
Sample Depth: 25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996	mg/Kg		09/05/23 09:00	09/05/23 14:14	1
Toluene	<0.00498	U	0.00498	mg/Kg		09/05/23 09:00	09/05/23 14:14	1
Ethylbenzene	<0.000996	U	0.000996	mg/Kg		09/05/23 09:00	09/05/23 14:14	1
m,p-Xylenes	<0.00199	U	0.00199	mg/Kg		09/05/23 09:00	09/05/23 14:14	1
o-Xylene	<0.000996	U	0.000996	mg/Kg		09/05/23 09:00	09/05/23 14:14	1
Xylenes, Total	<0.00199	U	0.00199	mg/Kg		09/05/23 09:00	09/05/23 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*	*09/05/23 09:00*	*09/05/23 14:14*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*09/05/23 09:00*	*09/05/23 14:14*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*09/05/23 09:00*	*09/05/23 14:14*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*	*09/05/23 09:00*	*09/05/23 14:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199	mg/Kg			09/05/23 16:24	1

Eurofins Midland

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Client Sample ID: SB-2 @ 25

Lab Sample ID: 880-32748-3
Matrix: Solid
Date Collected: 08/30/23 10:45
Date Received: 08/31/23 09:10
Sample Depth: 25

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**77.4**		49.7		mg/Kg			09/05/23 12:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		08/31/23 13:55	09/01/23 22:14	1
Diesel Range Organics (Over C10-C28)	**77.4**		49.7		mg/Kg		08/31/23 13:55	09/01/23 22:14	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		08/31/23 13:55	09/01/23 22:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*08/31/23 13:55*	*09/01/23 22:14*	*1*
o-Terphenyl	*127*		*70 - 130*	*08/31/23 13:55*	*09/01/23 22:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35.3**		5.01		mg/Kg			09/01/23 00:58	1

Client Sample ID: SB-2 @ 30

Lab Sample ID: 880-32748-4
Matrix: Solid
Date Collected: 08/30/23 11:00
Date Received: 08/31/23 09:10
Sample Depth: 30

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		09/05/23 09:00	09/05/23 14:37	1
Toluene	<0.00501	U	0.00501		mg/Kg		09/05/23 09:00	09/05/23 14:37	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		09/05/23 09:00	09/05/23 14:37	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		09/05/23 09:00	09/05/23 14:37	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		09/05/23 09:00	09/05/23 14:37	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		09/05/23 09:00	09/05/23 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*56 - 150*	*09/05/23 09:00*	*09/05/23 14:37*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*	*09/05/23 09:00*	*09/05/23 14:37*	*1*
Dibromofluoromethane (Surr)	*96*		*53 - 142*	*09/05/23 09:00*	*09/05/23 14:37*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*	*09/05/23 09:00*	*09/05/23 14:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			09/05/23 16:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			09/05/23 12:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/31/23 13:55	09/01/23 20:06	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/31/23 13:55	09/01/23 20:06	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Client Sample ID: SB-2 @ 30

Lab Sample ID: 880-32748-4
Matrix: Solid
Date Collected: 08/30/23 11:00
Date Received: 08/31/23 09:10
Sample Depth: 30

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/31/23 13:55	09/01/23 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*08/31/23 13:55*	*09/01/23 20:06*	*1*
o-Terphenyl	*125*		*70 - 130*	*08/31/23 13:55*	*09/01/23 20:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.7**		5.04		mg/Kg			09/01/23 01:06	1

Client Sample ID: SB-2 @ 35

Lab Sample ID: 880-32748-5
Matrix: Solid
Date Collected: 08/30/23 11:45
Date Received: 08/31/23 09:10
Sample Depth: 35

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		09/05/23 09:00	09/05/23 15:00	1
Toluene	<0.00502	U	0.00502		mg/Kg		09/05/23 09:00	09/05/23 15:00	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		09/05/23 09:00	09/05/23 15:00	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		09/05/23 09:00	09/05/23 15:00	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		09/05/23 09:00	09/05/23 15:00	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		09/05/23 09:00	09/05/23 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*09/05/23 09:00*	*09/05/23 15:00*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*09/05/23 09:00*	*09/05/23 15:00*	*1*
Dibromofluoromethane (Surr)	*98*		*53 - 142*	*09/05/23 09:00*	*09/05/23 15:00*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*	*09/05/23 09:00*	*09/05/23 15:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201		mg/Kg			09/05/23 16:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**199**		49.9		mg/Kg			09/05/23 12:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/31/23 13:55	09/01/23 21:31	1
Diesel Range Organics (Over C10-C28)	**199**		49.9		mg/Kg		08/31/23 13:55	09/01/23 21:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/31/23 13:55	09/01/23 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*08/31/23 13:55*	*09/01/23 21:31*	*1*
o-Terphenyl	*118*		*70 - 130*	*08/31/23 13:55*	*09/01/23 21:31*	*1*

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Client Sample ID: SB-2 @ 35

Lab Sample ID: 880-32748-5
Matrix: Solid
Date Collected: 08/30/23 11:45
Date Received: 08/31/23 09:10
Sample Depth: 35

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.4		4.98		mg/Kg			09/01/23 01:14	1

Client Sample ID: SB-2 @ 40

Lab Sample ID: 880-32748-6
Matrix: Solid
Date Collected: 08/30/23 12:00
Date Received: 08/31/23 09:10
Sample Depth: 40

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		09/05/23 09:00	09/05/23 15:23	1
Toluene	<0.00500	U	0.00500		mg/Kg		09/05/23 09:00	09/05/23 15:23	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		09/05/23 09:00	09/05/23 15:23	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		09/05/23 09:00	09/05/23 15:23	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		09/05/23 09:00	09/05/23 15:23	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		09/05/23 09:00	09/05/23 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*56 - 150*	*09/05/23 09:00*	*09/05/23 15:23*	*1*
4-Bromofluorobenzene (Surr)	*99*		*68 - 152*	*09/05/23 09:00*	*09/05/23 15:23*	*1*
Dibromofluoromethane (Surr)	*97*		*53 - 142*	*09/05/23 09:00*	*09/05/23 15:23*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*	*09/05/23 09:00*	*09/05/23 15:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			09/05/23 16:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			09/05/23 12:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/31/23 13:55	09/01/23 22:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/31/23 13:55	09/01/23 22:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/31/23 13:55	09/01/23 22:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*152*	*S1+*	*70 - 130*	*08/31/23 13:55*	*09/01/23 22:35*	*1*
o-Terphenyl	*127*		*70 - 130*	*08/31/23 13:55*	*09/01/23 22:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.7		5.02		mg/Kg			09/01/23 01:22	1

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Client Sample ID: EB-083023

Lab Sample ID: 880-32748-11
Matrix: Water
Date Collected: 08/30/23 14:30
Date Received: 08/31/23 09:10

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			09/05/23 13:21	1
Toluene	<0.00100	U	0.00100		mg/L			09/05/23 13:21	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			09/05/23 13:21	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			09/05/23 13:21	1
o-Xylene	<0.00100	U	0.00100		mg/L			09/05/23 13:21	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			09/05/23 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*63 - 144*		*09/05/23 13:21*	*1*
4-Bromofluorobenzene (Surr)	*120*		*74 - 124*		*09/05/23 13:21*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 131*		*09/05/23 13:21*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/05/23 13:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L			09/05/23 12:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.82	U	4.82		mg/L			09/05/23 16:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.82	U	4.82		mg/L		09/05/23 09:30	09/05/23 20:06	1
Diesel Range Organics (Over C10-C28)	<4.82	U	4.82		mg/L		09/05/23 09:30	09/05/23 20:06	1
Oil Range Organics (Over C28-C36)	<4.82	U	4.82		mg/L		09/05/23 09:30	09/05/23 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 135*	*09/05/23 09:30*	*09/05/23 20:06*	*1*
o-Terphenyl	*97*		*70 - 135*	*09/05/23 09:30*	*09/05/23 20:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.75**		0.500		mg/L			09/06/23 01:46	1

Client Sample ID: Trip Blank

Lab Sample ID: 880-32748-12
Matrix: Water
Date Collected: 08/30/23 00:00
Date Received: 08/31/23 09:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			09/05/23 13:42	1
Toluene	<0.00100	U	0.00100		mg/L			09/05/23 13:42	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			09/05/23 13:42	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			09/05/23 13:42	1
o-Xylene	<0.00100	U	0.00100		mg/L			09/05/23 13:42	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			09/05/23 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*63 - 144*		*09/05/23 13:42*	*1*

Eurofins Midland

Client Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Client Sample ID: Trip Blank

Lab Sample ID: 880-32748-12
Date Collected: 08/30/23 00:00
Matrix: Water
Date Received: 08/31/23 09:10

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*74 - 124*		*09/05/23 13:42*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 131*		*09/05/23 13:42*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/05/23 13:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L			09/05/23 16:24	1

Surrogate Summary

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
860-56384-C-1-A MS	Matrix Spike	95	95	96	96
880-32748-1	SB-2 @ 15	102	97	104	107
880-32748-1 MS	SB-2 @ 15	102	100	102	105
880-32748-2	SB-2 @ 20	104	97	100	94
880-32748-3	SB-2 @ 25	105	97	96	95
880-32748-4	SB-2 @ 30	99	97	96	94
880-32748-5	SB-2 @ 35	103	99	98	97
880-32748-6	SB-2 @ 40	103	99	97	96
LCS 860-120057/3	Lab Control Sample	94	98	93	99
LCS 860-120060/3	Lab Control Sample	98	97	99	106
LCSD 860-120057/4	Lab Control Sample Dup	93	92	95	98
LCSD 860-120060/4	Lab Control Sample Dup	100	97	101	107
MB 860-120057/9	Method Blank	98	96	94	95
MB 860-120060/10	Method Blank	105	97	104	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-120)
820-9911-C-1 MS	Matrix Spike	104	91	100	99
880-32748-11	EB-083023	101	120	106	100
LCS 860-120121/3	Lab Control Sample	97	93	99	100
LCSD 860-120121/4	Lab Control Sample Dup	102	95	99	102
MB 860-120121/9	Method Blank	106	117	110	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-120)
820-9911-C-1 MS	Matrix Spike	104	91	100	99
880-32748-12	Trip Blank	99	119	112	102
LCS 860-120122/3	Lab Control Sample	97	93	99	100
LCSD 860-120122/4	Lab Control Sample Dup	102	95	99	102
MB 860-120122/9	Method Blank	106	117	110	102

Surrogate Legend

Surrogate Summary

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-32748-1	SB-2 @ 15	152 S1+	109
880-32748-2	SB-2 @ 20	139 S1+	119
880-32748-3	SB-2 @ 25	145 S1+	127
880-32748-4	SB-2 @ 30	144 S1+	125
880-32748-4 MS	SB-2 @ 30	138 S1+	107
880-32748-4 MSD	SB-2 @ 30	138 S1+	107
880-32748-5	SB-2 @ 35	140 S1+	118
880-32748-6	SB-2 @ 40	152 S1+	127
LCS 880-61669/2-A	Lab Control Sample	111	113
LCSD 880-61669/3-A	Lab Control Sample Dup	118	114
MB 880-61669/1-A	Method Blank	161 S1+	145 S1+

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
860-56065-K-3-F MS	Matrix Spike	93	99
880-32748-11	EB-083023	84	97
LCS 860-120092/2-A	Lab Control Sample	94	99
LCSD 860-120092/3-A	Lab Control Sample Dup	88	97
MB 860-120092/1-A	Method Blank	83	93

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 860-56384-C-1-A MS
Matrix: Solid
Analysis Batch: 120057

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 119898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.0498	U	2.49	2.620		mg/Kg		105	71 - 119
Toluene	<0.249	U	2.49	2.597		mg/Kg		104	74 - 122
Ethylbenzene	<0.0498	U	2.49	2.634		mg/Kg		106	80 - 123
m,p-Xylenes	<0.0996	U	2.49	2.629		mg/Kg		106	78 - 127
o-Xylene	<0.0498	U	2.49	2.637		mg/Kg		106	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*56 - 150*
4-Bromofluorobenzene (Surr)	*95*		*68 - 152*
Dibromofluoromethane (Surr)	*96*		*53 - 142*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-32748-1 MS
Matrix: Solid
Analysis Batch: 120060

Client Sample ID: SB-2 @ 15
Prep Type: Total/NA
Prep Batch: 119898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	9.56		50.1	50.38		mg/Kg		81	71 - 119
Toluene	62.1	F1	50.1	94.27	F1	mg/Kg		64	74 - 122
Ethylbenzene	38.9	F1	50.1	77.12	F1	mg/Kg		76	80 - 123
m,p-Xylenes	43.3	F1	50.1	81.14	F1	mg/Kg		75	78 - 127
o-Xylene	17.6		50.1	62.70		mg/Kg		90	79 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*56 - 150*
4-Bromofluorobenzene (Surr)	*100*		*68 - 152*
Dibromofluoromethane (Surr)	*102*		*53 - 142*
Toluene-d8 (Surr)	*105*		*70 - 130*

Lab Sample ID: MB 860-120057/9
Matrix: Solid
Analysis Batch: 120057

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			09/05/23 12:21	1
Toluene	<0.00500	U	0.00500		mg/Kg			09/05/23 12:21	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			09/05/23 12:21	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			09/05/23 12:21	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			09/05/23 12:21	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			09/05/23 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*		*09/05/23 12:21*	*1*
4-Bromofluorobenzene (Surr)	*96*		*68 - 152*		*09/05/23 12:21*	*1*
Dibromofluoromethane (Surr)	*94*		*53 - 142*		*09/05/23 12:21*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*09/05/23 12:21*	*1*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-120057/3
Matrix: Solid
Analysis Batch: 120057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.05012		mg/Kg		100	66 - 142		
Toluene			0.0500	0.05095		mg/Kg		102	74 - 130		
Ethylbenzene			0.0500	0.05282		mg/Kg		106	80 - 130		
m,p-Xylenes			0.0500	0.05246		mg/Kg		105	78 - 130		
o-Xylene			0.0500	0.05255		mg/Kg		105	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*56 - 150*
4-Bromofluorobenzene (Surr)	*98*		*68 - 152*
Dibromofluoromethane (Surr)	*93*		*53 - 142*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 860-120057/4
Matrix: Solid
Analysis Batch: 120057

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04762		mg/Kg		95	66 - 142	5	25
Toluene			0.0500	0.04854		mg/Kg		97	74 - 130	5	25
Ethylbenzene			0.0500	0.04986		mg/Kg		100	80 - 130	6	25
m,p-Xylenes			0.0500	0.04894		mg/Kg		98	78 - 130	7	25
o-Xylene			0.0500	0.05004		mg/Kg		100	79 - 130	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*56 - 150*
4-Bromofluorobenzene (Surr)	*92*		*68 - 152*
Dibromofluoromethane (Surr)	*95*		*53 - 142*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 860-120060/10
Matrix: Solid
Analysis Batch: 120060

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			09/05/23 12:00	1
Toluene	<0.00500	U	0.00500		mg/Kg			09/05/23 12:00	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			09/05/23 12:00	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			09/05/23 12:00	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			09/05/23 12:00	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			09/05/23 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*56 - 150*		*09/05/23 12:00*	*1*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*		*09/05/23 12:00*	*1*
Dibromofluoromethane (Surr)	*104*		*53 - 142*		*09/05/23 12:00*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*09/05/23 12:00*	*1*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-120060/3
Matrix: Solid
Analysis Batch: 120060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04075		mg/Kg		81	66 - 142		
Toluene			0.0500	0.04692		mg/Kg		94	74 - 130		
Ethylbenzene			0.0500	0.04641		mg/Kg		93	80 - 130		
m,p-Xylenes			0.0500	0.04707		mg/Kg		94	78 - 130		
o-Xylene			0.0500	0.04741		mg/Kg		95	79 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*56 - 150*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
Dibromofluoromethane (Surr)	*99*		*53 - 142*
Toluene-d8 (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 860-120060/4
Matrix: Solid
Analysis Batch: 120060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.04487		mg/Kg		90	66 - 142	10	25
Toluene			0.0500	0.05208		mg/Kg		104	74 - 130	10	25
Ethylbenzene			0.0500	0.05152		mg/Kg		103	80 - 130	10	25
m,p-Xylenes			0.0500	0.05207		mg/Kg		104	78 - 130	10	25
o-Xylene			0.0500	0.05271		mg/Kg		105	79 - 130	11	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*56 - 150*
4-Bromofluorobenzene (Surr)	*97*		*68 - 152*
Dibromofluoromethane (Surr)	*101*		*53 - 142*
Toluene-d8 (Surr)	*107*		*70 - 130*

Lab Sample ID: MB 860-120121/9
Matrix: Water
Analysis Batch: 120121

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			09/05/23 13:01	1
Toluene	<0.00100	U	0.00100		mg/L			09/05/23 13:01	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			09/05/23 13:01	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			09/05/23 13:01	1
o-Xylene	<0.00100	U	0.00100		mg/L			09/05/23 13:01	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			09/05/23 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*		*09/05/23 13:01*	*1*
4-Bromofluorobenzene (Surr)	*117*		*74 - 124*		*09/05/23 13:01*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 131*		*09/05/23 13:01*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/05/23 13:01*	*1*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-120121/3
Matrix: Water
Analysis Batch: 120121

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04759		mg/L		95	75 - 125		
Toluene			0.0500	0.04602		mg/L		92	70 - 130		
Ethylbenzene			0.0500	0.04577		mg/L		92	75 - 125		
m,p-Xylenes			0.0500	0.04740		mg/L		95	75 - 125		
o-Xylene			0.0500	0.04803		mg/L		96	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*
4-Bromofluorobenzene (Surr)	*93*		*74 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 860-120121/4
Matrix: Water
Analysis Batch: 120121

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.05055		mg/L		101	75 - 125	6	25
Toluene			0.0500	0.05019		mg/L		100	70 - 130	9	25
Ethylbenzene			0.0500	0.04955		mg/L		99	75 - 125	8	25
m,p-Xylenes			0.0500	0.05032		mg/L		101	75 - 125	6	25
o-Xylene			0.0500	0.04925		mg/L		99	75 - 125	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*
4-Bromofluorobenzene (Surr)	*95*		*74 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 131*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: 820-9911-C-1 MS
Matrix: Water
Analysis Batch: 120121

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.00428		0.0500	0.05265		mg/L		97	66 - 142		
Toluene	0.0118		0.0500	0.05888		mg/L		94	59 - 139		
Ethylbenzene	0.00275		0.0500	0.05022		mg/L		95	75 - 125		
m,p-Xylenes	<0.0100	U	0.0500	0.05123		mg/L		96	75 - 125		
o-Xylene	0.00161		0.0500	0.04908		mg/L		95	75 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*
4-Bromofluorobenzene (Surr)	*91*		*74 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-120122/9
Matrix: Water
Analysis Batch: 120122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			09/05/23 13:01	1
Toluene	<0.00100	U	0.00100		mg/L			09/05/23 13:01	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			09/05/23 13:01	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			09/05/23 13:01	1
o-Xylene	<0.00100	U	0.00100		mg/L			09/05/23 13:01	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			09/05/23 13:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*63 - 144*		*09/05/23 13:01*	*1*
4-Bromofluorobenzene (Surr)	*117*		*74 - 124*		*09/05/23 13:01*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 131*		*09/05/23 13:01*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/05/23 13:01*	*1*

Lab Sample ID: LCS 860-120122/3
Matrix: Water
Analysis Batch: 120122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0500	0.04759		mg/L		95	75 - 125		
Toluene			0.0500	0.04602		mg/L		92	70 - 130		
Ethylbenzene			0.0500	0.04577		mg/L		92	75 - 125		
m,p-Xylenes			0.0500	0.04740		mg/L		95	75 - 125		
o-Xylene			0.0500	0.04803		mg/L		96	75 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*63 - 144*
4-Bromofluorobenzene (Surr)	*93*		*74 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 131*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 860-120122/4
Matrix: Water
Analysis Batch: 120122

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.0500	0.05055		mg/L		101	75 - 125	6	25
Toluene			0.0500	0.05019		mg/L		100	70 - 130	9	25
Ethylbenzene			0.0500	0.04955		mg/L		99	75 - 125	8	25
m,p-Xylenes			0.0500	0.05032		mg/L		101	75 - 125	6	25
o-Xylene			0.0500	0.04925		mg/L		99	75 - 125	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*63 - 144*
4-Bromofluorobenzene (Surr)	*95*		*74 - 124*
Dibromofluoromethane (Surr)	*99*		*75 - 131*
Toluene-d8 (Surr)	*102*		*80 - 120*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 820-9911-C-1 MS
Matrix: Water
Analysis Batch: 120122

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00428		0.0500	0.05265		mg/L		97	66 - 142
Toluene	0.0118		0.0500	0.05888		mg/L		94	59 - 139
Ethylbenzene	0.00275		0.0500	0.05022		mg/L		95	75 - 125
m,p-Xylenes	<0.0100	U	0.0500	0.05123		mg/L		96	75 - 125
o-Xylene	0.00161		0.0500	0.04908		mg/L		95	75 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*63 - 144*
4-Bromofluorobenzene (Surr)	*91*		*74 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 131*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-120092/1-A
Matrix: Water
Analysis Batch: 120111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 120092

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<5.00	U	5.00	mg/L		09/05/23 09:30	09/05/23 18:18	1
Diesel Range Organics (Over C10-C28)	<5.00	U	5.00	mg/L		09/05/23 09:30	09/05/23 18:18	1
Oil Range Organics (Over C28-C36)	<5.00	U	5.00	mg/L		09/05/23 09:30	09/05/23 18:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 135*	*09/05/23 09:30*	*09/05/23 18:18*	*1*
o-Terphenyl	*93*		*70 - 135*	*09/05/23 09:30*	*09/05/23 18:18*	*1*

Lab Sample ID: LCS 860-120092/2-A
Matrix: Water
Analysis Batch: 120111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 120092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	100	94.42		mg/L		94	70 - 135
Diesel Range Organics (Over C10-C28)	99.9	103.1		mg/L		103	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 135*
o-Terphenyl	*99*		*70 - 135*

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 860-120092/3-A
Matrix: Water
Analysis Batch: 120111

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 120092

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			100	98.72		mg/L		99	70 - 135	4	35
Diesel Range Organics (Over C10-C28)			99.9	104.7		mg/L		105	70 - 135	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*88*		*70 - 135*
o-Terphenyl	*97*		*70 - 135*

Lab Sample ID: 860-56065-K-3-F MS
Matrix: Water
Analysis Batch: 120111

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 120092

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<4.80	U	99.0	88.79		mg/L		90	70 - 135		
Diesel Range Organics (Over C10-C28)	<4.80	U	99.0	96.15		mg/L		96	70 - 135		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 135*
o-Terphenyl	*99*		*70 - 135*

Lab Sample ID: MB 880-61669/1-A
Matrix: Solid
Analysis Batch: 61701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61669

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/31/23 13:54	09/01/23 19:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/31/23 13:54	09/01/23 19:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/31/23 13:54	09/01/23 19:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*08/31/23 13:54*	*09/01/23 19:02*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*08/31/23 13:54*	*09/01/23 19:02*	*1*

Lab Sample ID: LCS 880-61669/2-A
Matrix: Solid
Analysis Batch: 61701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61669

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	990.0		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	923.8		mg/Kg		92	70 - 130		

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-61669/2-A
Matrix: Solid
Analysis Batch: 61701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61669

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-61669/3-A
Matrix: Solid
Analysis Batch: 61701

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61669

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1026		mg/Kg		103	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	909.5		mg/Kg		91	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: 880-32748-4 MS
Matrix: Solid
Analysis Batch: 61701

Client Sample ID: SB-2 @ 30
Prep Type: Total/NA
Prep Batch: 61669

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	995	957.1		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<50.4	U	995	1276		mg/Kg		125	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 880-32748-4 MSD
Matrix: Solid
Analysis Batch: 61701

Client Sample ID: SB-2 @ 30
Prep Type: Total/NA
Prep Batch: 61669

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	995	969.1		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.4	U	995	1282		mg/Kg		125	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	107		70 - 130

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-120124/3
Matrix: Water
Analysis Batch: 120124

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500		mg/L			09/05/23 10:14	1

Lab Sample ID: MB 860-120124/48
Matrix: Water
Analysis Batch: 120124

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500		mg/L			09/06/23 00:47	1

Lab Sample ID: LCS 860-120124/49
Matrix: Water
Analysis Batch: 120124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	10.04		mg/L		100	90 - 110		

Lab Sample ID: LCSD 860-120124/50
Matrix: Water
Analysis Batch: 120124

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			10.0	9.992		mg/L		100	90 - 110	0	20

Lab Sample ID: LLCS 860-120124/7
Matrix: Water
Analysis Batch: 120124

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.5118		mg/L		102	50 - 150		

Lab Sample ID: 820-9884-A-1 MS
Matrix: Water
Analysis Batch: 120124

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	151		10.0	159.1	4	mg/L		84	90 - 110		

Lab Sample ID: 820-9884-A-1 MSD
Matrix: Water
Analysis Batch: 120124

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	151		10.0	159.0	4	mg/L		83	90 - 110	0	15

Lab Sample ID: MB 880-61617/1-A
Matrix: Solid
Analysis Batch: 61691

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/31/23 23:15	1

QC Sample Results

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-61617/2-A
Matrix: Solid
Analysis Batch: 61691

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	253.3		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-61617/3-A
Matrix: Solid
Analysis Batch: 61691

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	252.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-32739-A-1-B MS
Matrix: Solid
Analysis Batch: 61691

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	827	F1	252	1038	F1	mg/Kg		84	90 - 110		

Lab Sample ID: 880-32739-A-1-C MSD
Matrix: Solid
Analysis Batch: 61691

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	827	F1	252	1037	F1	mg/Kg		83	90 - 110	0	20

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

GC/MS VOA

Prep Batch: 119898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-1	SB-2 @ 15	Total/NA	Solid	5035	
860-56384-C-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-32748-1 MS	SB-2 @ 15	Total/NA	Solid	5035	

Analysis Batch: 120057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-2	SB-2 @ 20	Total/NA	Solid	8260C	120075
880-32748-3	SB-2 @ 25	Total/NA	Solid	8260C	120075
880-32748-4	SB-2 @ 30	Total/NA	Solid	8260C	120075
880-32748-5	SB-2 @ 35	Total/NA	Solid	8260C	120075
880-32748-6	SB-2 @ 40	Total/NA	Solid	8260C	120075
MB 860-120057/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-120057/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-120057/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-56384-C-1-A MS	Matrix Spike	Total/NA	Solid	8260C	119898

Analysis Batch: 120060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-1	SB-2 @ 15	Total/NA	Solid	8260C	119898
MB 860-120060/10	Method Blank	Total/NA	Solid	8260C	
LCS 860-120060/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-120060/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
880-32748-1 MS	SB-2 @ 15	Total/NA	Solid	8260C	119898

Prep Batch: 120075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-2	SB-2 @ 20	Total/NA	Solid	5035	
880-32748-3	SB-2 @ 25	Total/NA	Solid	5035	
880-32748-4	SB-2 @ 30	Total/NA	Solid	5035	
880-32748-5	SB-2 @ 35	Total/NA	Solid	5035	
880-32748-6	SB-2 @ 40	Total/NA	Solid	5035	

Analysis Batch: 120121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-11	EB-083023	Total/NA	Water	8260C	
MB 860-120121/9	Method Blank	Total/NA	Water	8260C	
LCS 860-120121/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-120121/4	Lab Control Sample Dup	Total/NA	Water	8260C	
820-9911-C-1 MS	Matrix Spike	Total/NA	Water	8260C	

Analysis Batch: 120122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-12	Trip Blank	Total/NA	Water	8260D	
MB 860-120122/9	Method Blank	Total/NA	Water	8260D	
LCS 860-120122/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-120122/4	Lab Control Sample Dup	Total/NA	Water	8260D	
820-9911-C-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 120154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-11	EB-083023	Total/NA	Water	Total BTEX	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

GC/MS VOA

Analysis Batch: 120203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-1	SB-2 @ 15	Total/NA	Solid	Total BTEX	
880-32748-2	SB-2 @ 20	Total/NA	Solid	Total BTEX	
880-32748-3	SB-2 @ 25	Total/NA	Solid	Total BTEX	
880-32748-4	SB-2 @ 30	Total/NA	Solid	Total BTEX	
880-32748-5	SB-2 @ 35	Total/NA	Solid	Total BTEX	
880-32748-6	SB-2 @ 40	Total/NA	Solid	Total BTEX	
880-32748-12	Trip Blank	Total/NA	Water	Total BTEX	

GC Semi VOA

Prep Batch: 61669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-1	SB-2 @ 15	Total/NA	Solid	8015NM Prep	
880-32748-2	SB-2 @ 20	Total/NA	Solid	8015NM Prep	
880-32748-3	SB-2 @ 25	Total/NA	Solid	8015NM Prep	
880-32748-4	SB-2 @ 30	Total/NA	Solid	8015NM Prep	
880-32748-5	SB-2 @ 35	Total/NA	Solid	8015NM Prep	
880-32748-6	SB-2 @ 40	Total/NA	Solid	8015NM Prep	
MB 880-61669/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61669/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61669/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-32748-4 MS	SB-2 @ 30	Total/NA	Solid	8015NM Prep	
880-32748-4 MSD	SB-2 @ 30	Total/NA	Solid	8015NM Prep	

Analysis Batch: 61701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-1	SB-2 @ 15	Total/NA	Solid	8015B NM	61669
880-32748-2	SB-2 @ 20	Total/NA	Solid	8015B NM	61669
880-32748-3	SB-2 @ 25	Total/NA	Solid	8015B NM	61669
880-32748-4	SB-2 @ 30	Total/NA	Solid	8015B NM	61669
880-32748-5	SB-2 @ 35	Total/NA	Solid	8015B NM	61669
880-32748-6	SB-2 @ 40	Total/NA	Solid	8015B NM	61669
MB 880-61669/1-A	Method Blank	Total/NA	Solid	8015B NM	61669
LCS 880-61669/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61669
LCSD 880-61669/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61669
880-32748-4 MS	SB-2 @ 30	Total/NA	Solid	8015B NM	61669
880-32748-4 MSD	SB-2 @ 30	Total/NA	Solid	8015B NM	61669

Analysis Batch: 61803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-1	SB-2 @ 15	Total/NA	Solid	8015 NM	
880-32748-2	SB-2 @ 20	Total/NA	Solid	8015 NM	
880-32748-3	SB-2 @ 25	Total/NA	Solid	8015 NM	
880-32748-4	SB-2 @ 30	Total/NA	Solid	8015 NM	
880-32748-5	SB-2 @ 35	Total/NA	Solid	8015 NM	
880-32748-6	SB-2 @ 40	Total/NA	Solid	8015 NM	

Analysis Batch: 101425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-11	EB-083023	Total/NA	Water	8015 NM	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

GC Semi VOA

Prep Batch: 120092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-11	EB-083023	Total/NA	Water	8015NM Aq Prep	
MB 860-120092/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-120092/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-120092/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	
860-56065-K-3-F MS	Matrix Spike	Total/NA	Water	8015NM Aq Prep	

Analysis Batch: 120111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-11	EB-083023	Total/NA	Water	8015B NM	120092
MB 860-120092/1-A	Method Blank	Total/NA	Water	8015B NM	120092
LCS 860-120092/2-A	Lab Control Sample	Total/NA	Water	8015B NM	120092
LCSD 860-120092/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	120092
860-56065-K-3-F MS	Matrix Spike	Total/NA	Water	8015B NM	120092

HPLC/IC

Leach Batch: 61617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-1	SB-2 @ 15	Soluble	Solid	DI Leach	
880-32748-2	SB-2 @ 20	Soluble	Solid	DI Leach	
880-32748-3	SB-2 @ 25	Soluble	Solid	DI Leach	
880-32748-4	SB-2 @ 30	Soluble	Solid	DI Leach	
880-32748-5	SB-2 @ 35	Soluble	Solid	DI Leach	
880-32748-6	SB-2 @ 40	Soluble	Solid	DI Leach	
MB 880-61617/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-61617/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-61617/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-32739-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-32739-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 61691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-1	SB-2 @ 15	Soluble	Solid	300.0	61617
880-32748-2	SB-2 @ 20	Soluble	Solid	300.0	61617
880-32748-3	SB-2 @ 25	Soluble	Solid	300.0	61617
880-32748-4	SB-2 @ 30	Soluble	Solid	300.0	61617
880-32748-5	SB-2 @ 35	Soluble	Solid	300.0	61617
880-32748-6	SB-2 @ 40	Soluble	Solid	300.0	61617
MB 880-61617/1-A	Method Blank	Soluble	Solid	300.0	61617
LCS 880-61617/2-A	Lab Control Sample	Soluble	Solid	300.0	61617
LCSD 880-61617/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	61617
880-32739-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	61617
880-32739-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	61617

Analysis Batch: 120124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-32748-11	EB-083023	Total/NA	Water	300.0	
MB 860-120124/3	Method Blank	Total/NA	Water	300.0	
MB 860-120124/48	Method Blank	Total/NA	Water	300.0	
LCS 860-120124/49	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-120124/50	Lab Control Sample Dup	Total/NA	Water	300.0	

QC Association Summary

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

HPLC/IC (Continued)

Analysis Batch: 120124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LLCS 860-120124/7	Lab Control Sample	Total/NA	Water	300.0	
820-9884-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
820-9884-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Client Sample ID: SB-2 @ 15

Lab Sample ID: 880-32748-1
Matrix: Solid
Date Collected: 08/30/23 10:15
Date Received: 08/31/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	119898	09/01/23 13:49	MTMG	EET HOU
Total/NA	Analysis	8260C		1000	5 mL	5 mL	120060	09/05/23 12:21	KLV	EET HOU
Total/NA	Analysis	Total BTEX		1			120203	09/05/23 16:24	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			61803	09/05/23 12:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	61669	08/31/23 13:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61701	09/01/23 21:10	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	61617	08/31/23 10:42	SMC	EET MID
Soluble	Analysis	300.0		1			61691	09/01/23 00:26	CH	EET MID

Client Sample ID: SB-2 @ 20

Lab Sample ID: 880-32748-2
Matrix: Solid
Date Collected: 08/30/23 10:30
Date Received: 08/31/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	120075	09/05/23 09:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120057	09/05/23 13:52	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			120203	09/05/23 16:24	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			61803	09/05/23 12:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	61669	08/31/23 13:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61701	09/01/23 21:53	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	61617	08/31/23 10:42	SMC	EET MID
Soluble	Analysis	300.0		1			61691	09/01/23 00:50	CH	EET MID

Client Sample ID: SB-2 @ 25

Lab Sample ID: 880-32748-3
Matrix: Solid
Date Collected: 08/30/23 10:45
Date Received: 08/31/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	120075	09/05/23 09:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120057	09/05/23 14:14	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			120203	09/05/23 16:24	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			61803	09/05/23 12:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	61669	08/31/23 13:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61701	09/01/23 22:14	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	61617	08/31/23 10:42	SMC	EET MID
Soluble	Analysis	300.0		1			61691	09/01/23 00:58	CH	EET MID

Client Sample ID: SB-2 @ 30

Lab Sample ID: 880-32748-4
Matrix: Solid
Date Collected: 08/30/23 11:00
Date Received: 08/31/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	120075	09/05/23 09:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120057	09/05/23 14:37	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			120203	09/05/23 16:24	KLV	EET HOU

Eurofins Midland

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Client Sample ID: SB-2 @ 30

Lab Sample ID: 880-32748-4
Matrix: Solid
Date Collected: 08/30/23 11:00
Date Received: 08/31/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			61803	09/05/23 12:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	61669	08/31/23 13:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61701	09/01/23 20:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	61617	08/31/23 10:42	SMC	EET MID
Soluble	Analysis	300.0		1			61691	09/01/23 01:06	CH	EET MID

Client Sample ID: SB-2 @ 35

Lab Sample ID: 880-32748-5
Matrix: Solid
Date Collected: 08/30/23 11:45
Date Received: 08/31/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	120075	09/05/23 09:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120057	09/05/23 15:00	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			120203	09/05/23 16:24	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			61803	09/05/23 12:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	61669	08/31/23 13:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61701	09/01/23 21:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	61617	08/31/23 10:42	SMC	EET MID
Soluble	Analysis	300.0		1			61691	09/01/23 01:14	CH	EET MID

Client Sample ID: SB-2 @ 40

Lab Sample ID: 880-32748-6
Matrix: Solid
Date Collected: 08/30/23 12:00
Date Received: 08/31/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	120075	09/05/23 09:00	MTMG	EET HOU
Total/NA	Analysis	8260C		1	5 mL	5 mL	120057	09/05/23 15:23	MTMG	EET HOU
Total/NA	Analysis	Total BTEX		1			120203	09/05/23 16:24	KLV	EET HOU
Total/NA	Analysis	8015 NM		1			61803	09/05/23 12:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	61669	08/31/23 13:55	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	61701	09/01/23 22:35	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	61617	08/31/23 13:24	SMC	EET MID
Soluble	Analysis	300.0		1			61691	09/01/23 01:22	CH	EET MID

Client Sample ID: EB-083023

Lab Sample ID: 880-32748-11
Matrix: Water
Date Collected: 08/30/23 14:30
Date Received: 08/31/23 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	120121	09/05/23 13:21	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			120154	09/05/23 12:14	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			101425	09/05/23 16:24	CZT	EET HOU
Total/NA	Prep	8015NM Aq Prep			31.10 mL	3 mL	120092	09/05/23 09:30	TH	EET HOU
Total/NA	Analysis	8015B NM		1			120111	09/05/23 20:06	T1S	EET HOU

Eurofins Midland

Lab Chronicle

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Client Sample ID: EB-083023

Date Collected: 08/30/23 14:30
Date Received: 08/31/23 09:10

Lab Sample ID: 880-32748-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1			120124	09/06/23 01:46	A1S	EET HOU

Client Sample ID: Trip Blank

Date Collected: 08/30/23 00:00
Date Received: 08/31/23 09:10

Lab Sample ID: 880-32748-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	120122	09/05/23 13:42	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			120203	09/05/23 16:24	KLV	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-51	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Water	Total TPH
8015B NM	8015NM Aq Prep	Water	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Aq Prep	Water	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Aq Prep	Water	Oil Range Organics (Over C28-C36)
Total BTEX		Solid	Total BTEX
Total BTEX		Water	Total BTEX

Method Summary

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET MID
5030C	Purge and Trap	SW846	EET HOU
5035	Closed System Purge and Trap	SW846	EET HOU
8015NM Aq Prep	Microextraction	SW846	EET HOU
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: TRC Solutions, Inc.
Project/Site: HEP Hobbs Station TK 5202

Job ID: 880-32748-1
SDG: Hobbs Station

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-32748-1	SB-2 @ 15	Solid	08/30/23 10:15	08/31/23 09:10	15
880-32748-2	SB-2 @ 20	Solid	08/30/23 10:30	08/31/23 09:10	20
880-32748-3	SB-2 @ 25	Solid	08/30/23 10:45	08/31/23 09:10	25
880-32748-4	SB-2 @ 30	Solid	08/30/23 11:00	08/31/23 09:10	30
880-32748-5	SB-2 @ 35	Solid	08/30/23 11:45	08/31/23 09:10	35
880-32748-6	SB-2 @ 40	Solid	08/30/23 12:00	08/31/23 09:10	40
880-32748-11	EB-083023	Water	08/30/23 14:30	08/31/23 09:10	
880-32748-12	Trip Blank	Water	08/30/23 00:00	08/31/23 09:10	

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

880-32748 Chain of Custody

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Project Manager	Russell Sorrells	Bill to (if different)	
Company Name	TRC	Company Name	
Address		Address	
City State ZIP		City State ZIP	
Phone	432.260.4465	Email	Russell, Brian, Jared

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	HEP Hobbs Station Treater	Turn Around	
Project Number	528833	☐ Routine ☑ Rush	
Project Location	Hobbs Station	Due Date	48 HR
Sampler's Name	Russell Sorrells	TAT starts the day received by the lab, if received by 4.30pm	
PO #			

SAMPLE RECEIPT			
Temp Blank.	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR6
Cooler Custody Seals.	Yes No N/A	Correction Factor:	-.30
Sample Custody Seals.	Yes No N/A	Temperature Reading	5.2
Total Containers.		Corrected Temperature:	4.9

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2SO_4 H_2; NaOH Na; H_3PO_4 HP; NaHSO4 NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX (8260)	TPH (GRO+DRO+MRO) 8015	Chloride (300)	Hold	Sample Comments
SB-2 @ 15	S	8.30.23	1015	15	G	1		✓	✓	✓		* Run Shallow
SB-2 @ 20			1030	20		1		✓	✓	✓		To Deep
SB-2 @ 25			1045	25		1		✓	✓	✓		* Stop Analyze Chloride
SB-2 @ 30			1100	30		1		✓	✓	✓		if Result under 600
SB-2 @ 35			1145	35		1		✓	✓	✓		* Stop Analysis BTEX
SB-2 @ 40			1200	40		1		✓	✓	✓		if Result Less than 50
SB-2 @ 42.5			1240	42.5		1					✓	* Stop TPH if Result
SB-2 @ 45			1245	45		1					✓	Less than
SB-2 @ 47.5			1310	47.5		1					✓	1000 mg/kg DRO
SB-2 @ 50'			1315	500		1					✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		8/31/23 8:00	2		8/31/23 9:10
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Loc: 880
32748

Work Order No: _ ___

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Project Manager	Russell Schrock	Bill to (if different)	
Company Name	TRC	Company Name	
Address		Address	
City State ZIP		City State ZIP	
Phone	432.250 4465	Email	Russell Bryan James

Project Name	HEP Hobbs Station TR5202	Turn Around	
Project Number	526833	☑ Routine ☐ Rush	
Project Location	Hobbs Station	Due Date	
Sampler's Name	Russell Schrock	TAT starts the day received by the lab, if received by 4.30pm	
PO #			

SAMPLE RECEIPT	Temp Blank.	Yes No	Wet Ice	Yes No
Samples Received Intact:	Yes No	Thermometer ID		
Cooler Custody Seals.	Yes No N/A	Correction Factor		
Sample Custody Seals.	Yes No N/A	Temperature Reading		
Total Containers		Corrected Temperature		

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2SO_4 H_2 | NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: BTEX 8260	TPH (GRO/DRO/MRO) 8015	Chlorides 300.0	Sample Comments
EB-083023	W	8.30.23	1430	—	G	6	1	1	1	
TRIP BLANK	W	—	—	—	—	2	1			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1			8/31/23 8:00	2		8/31/23 9:10
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Midland
1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record

[redacted]

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 880-7817 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-32748-1
Address: 4145 Greenbriar Dr	Due Date Requested: 9/5/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: HEP Hobbs Station TK 5202	Project #: 88000601			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)

Other

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8260C/5035FP_Calc BTEX	Total_BTEX/ Total BTEX Calculation	8260C/5030C BTEX	8015MOD_NM/8016NM_Aq_Prep Full TPH	8015MOD_Calc	300_ORGFM_28D/ Chloride	8260D/5030C BTEX	Total_BTEX	Special Instructions/Note:
SB-2 @ 15 (880-32748-1)	8/30/23	10:15 Mountain		Solid	X	X							HW338
SB-2 @ 20 (880-32748-2)	8/30/23	10:30 Mountain		Solid	X	X							2.9
SB-2 @ 25 (880-32748-3)	8/30/23	10:45 Mountain		Solid	X	X							2.5
SB-2 @ 30 (880-32748-4)	8/30/23	11:00 Mountain		Solid	X	X							1.3
SB-2 @ 35 (880-32748-5)	8/30/23	11:45 Mountain		Solid	X	X							1.0
SB-2 @ 40 (880-32748-6)	8/30/23	12:00 Mountain		Solid	X	X							2.4
EB-083023 (880-32748-11)	8/30/23	14:30 Mountain		Water		X	X	X	X	X			2.1
Trip Blank (880-32748-12)	8/30/23	Mountain		Water							X	X	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 9/1/2023 9:35	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: TRC Solutions, Inc.

Job Number: 880-32748-1
SDG Number: Hobbs Station

Login Number: 32748
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: TRC Solutions, Inc.

Job Number: 880-32748-1
SDG Number: Hobbs Station

Login Number: 32748
List Number: 2
Creator: Baker, Jeremiah

List Source: Eurofins Houston
List Creation: 09/01/23 11:22 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

TRC

Analytical Data Review Checklist

Site: Hobbs Station Tank 5202	**Laboratory:** Eurofins Midland and Eurofins Houston
Location: Hobbs, NM	**Lab Report #:** 880-32748-1
Client Name: HEP	**Reviewer:** A. Eljuri
Project #: 528833	**Peer Reviewer:** L. Denly
	Review Date: 9/13/2023

Analytical Method(s):	**Matrices Sampled:**	**Sample Collection Date(s):**
BTEX by Method 8260C; TPH (GRO, DRO, ORO, and Total) by Method 8015B NM; Chloride by EPA 300.0	Soil, aqueous quality control (QC) sample	August 30, 2023

Sampling Objective(s):

Collect confirmation soil samples at a release site.

Sample IDs (List IDs or attach COC):

Refer to data package sample summary.

	Review Item or Question	Y	N	NA	Comments
Chain-of-Custody and Data Completeness					
1	Was COC appropriately completed?		X		The initial relinquish time and date from Eurofins Midland to FedEx is missing.
2	Did the laboratory report correct sample IDs?	X			
3	Do the laboratory reported sample collection dates and times agree with the COC forms?	X			
4	Are results reported for all analytical methods requested?	X			The Eurofins Houston laboratory reported Total BTEX (solid and water), Total TPH (water), and TPH GRO/DRO/ORO (water) and the Eurofins Midland laboratory reported Total TPH (solid), which are not offered for accreditation.
5	Are results reported for all samples submitted for analysis?	X			
6	Were the requested analytical methods used?	X			
7	Are results reported for all target analytes, but no additional analytes?	X			TPH ORO instead of TPH MRO per the COC was reported. The laboratory confirmed TPH ORO and TPH MRO report the same ranges.
8	**SOIL/SEDIMENT ONLY:** Were soil/sediment results reported on a dry weight basis?		X		The site is regulated under the New Mexico Oil Conservation District and reporting results on a dry weight basis is not a project requirement.
9	If requested, were detected results below reporting limit (i.e., "J" values) reported?			X	
10	Did we receive the required deliverables (e.g., EDD, Level 4 data, laboratory certification, etc.) in the correct formats?	X			
Sample Preservation					
11a	Did samples arrive at the laboratory appropriately preserved?			X	
11b	Was the cooler temperature between 0-6°C?	X			
11c	Was acid used for preservation when required (e.g., aqueous VOC and metals samples)?			X	
11d	**SOIL/SEDIMENT ONLY:** Were soil/sediment VOC samples preserved in the field or collected in EnCore® samplers?		X		Soil samples were collected in unpreserved bulk jars, which is an acceptable collection method for BTEX and TPH analyses for the New Mexico Oil Conservation District.
12	Were samples received by the laboratory in an acceptable condition (i.e., no breakages, leaks, etc.)?	X			

TRC

Analytical Data Review Checklist

Review Item or Question		Y	N	NA	Comments
13	Were any issues noted by the laboratory upon receipt?		X		
14a	**AIR ONLY:** Were canisters received with an acceptable vacuum?			X	
14b	**AIR ONLY:** Were the RPDs between the initial and final canister flow controller calibrations <20?			X	
Holding Times					
15	Were sample preparation and analysis holding time requirements met?	X			
Reporting Limits					
16	Do the reporting limits meet the project specifications (e.g., QAPP or Work Plan)?	X			All non-detect results had reporting limits below project criteria.
17	Were dilutions performed? If so, note sample(s) and parameters(s) affected and the dilution factor(s).	X			SB-2 @ 15: BTEX 1,000-fold
18	Did the laboratory provide an adequate explanation as to why dilutions were performed?	X			Per the Case Narrative, the sample listed in Item 17 was diluted due to the nature of the sample matrix.
QC Results					
Blanks					
19	Were target analytes detected in the method blanks? If yes, list contaminants, concentrations detected and associated samples.		X		
20	Does each analytical or preparation batch have its own method blank?	X			
21	Were any target analytes detected in the field blank(s) (e.g., trip blanks, equipment blanks)? If yes, list contaminants, concentrations detected and associated samples (or attach field blank results).	X			There were no detections in the Trip Blank. Chloride was detected in equipment blank EB-083023 at 1.75 mg/L. The initial prep factor is 10 for all Method 300.0 soil samples per the lab; therefore, the EB-083023 chloride concentration used to evaluate project samples is 17.5 mg/kg.
22	Are there any potential false positive results based on questions 19 and/or 21?	X			Chloride results in project samples were detected less than 10x the equipment blank detection; therefore, project samples 880-32748-1 through 880-32748-6 may include field contamination from inadequate field decontamination.
Laboratory Control Spikes					
23	Are LCS/LCSD recoveries within QC limits? If no, list analytes affected, the LCS/LCSD recoveries, and the affected samples.	X			Total xylenes and TPH ORO are not reported in any LCS or LCSD.
24	Does each analytical or preparation batch have its own LCS?	X			
25	Are LCS/LCSD RPDs within QC limits? If no, list analytes affected, the RPDs, and the affected samples.	X			
Matrix Spikes					
26	Are MS/MSD recoveries within QC limits? If no, list analytes affected, the MS/MSD recoveries and the sample that was spiked.	X			MS and/or MSDs were performed on sample SB-2 @ 15 for BTEX (except total xylenes) and SB-2 @ 30 for TPH. MS/MSDs were also performed on non-project samples; non-project sample MS/MSD results were not evaluated during this review.
27	Are MS/MSD RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was spiked.		X		The MS recoveries for toluene (64%), ethylbenzene (76%), and m,p-xylenes (75%) in sample SB-2 @ 15 were below laboratory-defined limits (74-122%, 80-123%, and 78-127%, respectively). Therefore, the detected toluene, ethylbenzene, and m,p-xylenes results in sample SB-2 @ 15 may be considered estimated, biased low.

TRC

Analytical Data Review Checklist

	Review Item or Question	Y	N	NA	Comments
Surrogates					
28	**ORGANIC ANALYSES ONLY:** Are surrogate recoveries within QC limits? If no, list samples, surrogate recoveries and analytes affected.		X		In sample SB-2 @ 15, surrogate 1-chlorooctane (152%) recovered above the laboratory-defined limit (70-130%) in the TPH analysis. Therefore, detected TPH GRO, TPH DRO, and Total TPH results in sample SB-2 @ 15 may be considered estimated, biased high. In samples SB-2 @ 20, SB-2 @ 25, and SB-2 @ 35, surrogate 1-chlorooctane (139%, 145%, and 140%, respectively) recovered above the laboratory-defined limit (70-130%) in the TPH analysis. Therefore, detected TPH DRO and Total TPH results in samples SB-2 @ 20, SB-2 @ 25, and SB-2 @ 35 may be considered estimated, biased high. In samples SB-2 @ 30 and SB-2 @ 40, surrogate 1-chlorooctane (144% and 152%, respectively) recovered above the laboratory-defined limit (70-130%) in the TPH analysis. TPH was not detected in samples SB-2 @ 30 and SB-2 @ 40, so there is no impact on data usability due to this issue.
Duplicates					
29	Are laboratory duplicate RPDs within QC limits? If no, list analytes affected, the RPDs and the sample that was prepared/analyzed in duplicate.			X	
30	Were field duplicate criteria met? If no, list analytes affected, the RPD and/or absolute difference (as applicable), and the associated samples. NOTE: RPD ≤ 50% for soil samples when results are >3x the reporting limit; otherwise, AbsD > 2x reporting limit.			X	
Do the Data Make Sense?					
31	Did the case narrative describe any analytical anomalies (i.e., problems or unique occurrences) that have not already been addressed above? If yes, list the comments that have potential impact to sample results (or attach case narrative and highlight the comments that have potential impact to sample results).		X		
32	Were any other potential data quality issues identified? If yes, describe issues.		X		
33	Do any results look questionable? If yes, ASK THE LAB.		X		
34	Has the EDD been compared to the lab report?			X	
Additional Comments:					

Notes:
Reference: EPA Superfund Contract Laboratory Program (CLP) National Functional Guidelines (NFGs) for Data Review (November, 2020)

Abbreviations:
AbsD = Absolute Difference
BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes (and isomers)
COC = Chain-of-Custody
DRO = Diesel Range Organics
EDD = Electronic Data Deliverable
GRO = Gasoline Range Organics
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MRO = Motor Range Organics
MS/MSD = Matrix Spike / Matrix Spike Duplicate
NELAP = National Environmental Laboratory Accreditation Program
ORO = Oil Range Organics
QAPP = Quality Assurance Project Plan
QC = Quality Control
%R = Percent Recovery
RPD = Relative Percent Difference = 100% x |(A-B)/((A+B)/2)|
TPH = Total Petroleum Hydrocarbon

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

Action 269294

CONDITIONS

Operator: HOLLY ENERGY PARTNERS - OPERATING, LP 1602 W. Main St. Artesia, NM 88210	OGRID: 282505
	Action Number: 269294
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved. Operator has 90-days (Due date: March 13, 2024) to submit it's appropriate or remediation closure report.	12/14/2023