



August 19, 2024

District Supervisor
Oil Conservation Division, District 2
811 S. First St.
Artesia, New Mexico 88210

**Re: Soil Remediation Report and Groundwater Remediation Work Plan
BTA Oil Producers, LLC
Harroun Ranch West Fire
Unit Letter O, Section 20, Township 23 South, Range 29 East
Eddy County, New Mexico
NMOCD Incident ID# nAPP2411724780**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by BTA Oil Producers, LLC (BTA) to assist with the management of releases of oil and produced water as the result of a fire at the Harroun Ranch West tank battery, Unit Letter O, Section 20, Township 23 South, Range 29 East, in Eddy County, New Mexico, at coordinates 32.285895°, - 104.006467° (Site). The location is shown in **Figure 1** and **Figure 2**.

BACKGROUND

On April 25, 2024, a fire consumed the Harroun Ranch West facility. Upon report of the fire, BTA immediately isolated production lines and pipelines associated with the facility, and emergency response activities were immediately initiated by the local fire department which extinguished the fire. BTA dispatched vacuum trucks immediately to begin recovering released fluids, as accessible, safely. As soon as the Site was cool enough to safely approach, BTA began demolition of the remaining equipment and scraping of surficial impacted soils on the facility pad. Approximately 580 barrels (bbls) of oil and 1,200 bbls of produced water were released as a result of which approximately 100 bbls of produced water was recovered during the initial response activities. The release notification was submitted to NMOCD and the Bureau of Land Management (BLM) on April 26, 2024, and subsequently assigned the release Incident Identification (ID) nAPP2411724780. The release extent is shown in **Figure 2**.

SITE CHARACTERIZATION

Receptors

Tetra Tech performed a site characterization for the release location and did not identify any watercourses, sinkholes, playas, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.29.11 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Mapper, the site is in an area of medium karst potential. The site characterization data is included in **Attachment 1**.

Depth to Groundwater

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile of the Site. The nearest well is approximately 0.85 miles away with a depth to water of 16 feet below ground surface (bgs) and the next nearest well is approximately 1.13 miles away with a depth to water of 44 feet bgs. During soil remediation, three locations were excavated down to the top of the capillary fringe and then potholed to expose groundwater. Upon the facility pad proper, groundwater is present at a depth of approximately 11 feet

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below ground surface (bgs) and in the pasture to the southeast which is lower in elevation than the pad, groundwater is present at approximately 7 feet bgs. Groundwater site characterization data is included in **Attachment 1**.

Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as having Simona-Bippus complex, 0 to 5 percent slopes soil, which is classified as a Loam soil type. The USDA NCRS Soil Map and soil profile are provided in **Attachment 1**.

REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), Total Petroleum Hydrocarbons (TPH) in soil.

TPH, BTEX, and Benzene Reclamation Requirements

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site default to Reclamation Requirements for groundwater less than 50 feet bgs due to the proximity of inferred shallow groundwater estimated as less than 25 feet below ground surface. Reclamation Requirements are as follows:

Reclamation Requirements

Constituent	Remediation RRAL
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Chloride Background Assessment

A historical aerial imagery review of Google Earth imagery indicates that the playa lake just over 300 feet north of the Site is saline and has historically encroached or overflowed over the current release area and Site prior to the construction of the levy north of the Site between 2014 and 2016. Sampling of the playa water reported indicated elevated total dissolved solids concentrations and apparent salts are visible in the bottom of the playa when dry in 2005, 2011, 2012, 2013, 2014, 2017, 2019, and 2023 aerial images.

Background samples are discussed below, completed in accordance with the December 1, 2023, Notice, and approved by the NMOCD on June 28, 2024. The established chloride background concentration is as follows:

Chloride Remediation Criteria

Constituent	Remediation RRAL
Chloride	3,080 mg/kg

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INITIAL RESPONSE AND ASSESSMENT ACTIVITIES

On April 25, 2024, a fire consumed the Harroun Ranch West facility. Upon report of the fire, BTA immediately isolated production lines and pipelines associated with the facility, and emergency response activities were immediately initiated by the local fire department which extinguished the fire. BTA dispatched vacuum trucks immediately to begin recovering released fluids, as accessible safely. As soon as the Site was cool enough to safely approach, BTA began demolition of the remaining equipment and scraping of surficial impacted soils on the facility pad on April 29, 2024. Approximately 580 barrels (bbls) of oil and 1,200 bbls of produced water were released as a result of which approximately 100 bbls of produced water was recovered. Following the recovery of fluids, approximately 2,200 cubic yards of impacted soil were scraped from the upper 1 foot of the release site during the initial response.

SITE ASSESSMENT SUMMARY

Initial Soil Assessment

BTA conducted test pitting and soil assessment sampling on May 2, 2023, to begin vertical and horizontal delineation of the release. A total of 11 surface lateral delineation samples were collected from the upper 6 inches and 15 test pits (PH 1 through PH 15) were advanced to depths of between 2 and 6 feet bgs within the release footprint. Soils at the Site consist of light brown sandy loam with gravel to approximately 6 feet bgs which are underlain by an indurated layer. Soil assessment location locations are depicted in **Figure 2** and location coordinates are provided in **Table 1**.

Soils were field screened for salinity using an ExTech EC400 ExStik to determine sampling intervals. A total of 27 samples were collected from assessment locations and submitted to Cardinal Laboratory in Hobbs, New Mexico (Cardinal) for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500Cl-B.

Analytical results associated with lateral delineation location H 9 reported and test pit PH 9 2-4' reported total TPH as greater than Reclamation Requirements at concentrations of 141 mg/kg and 3,475 mg/kg, respectively. Test pit sample PH 9 2-4' which reported a chloride concentration of 6,560 mg/kg. Other samples reported benzene, BTEX, and TPH concentrations as less than respective Reclamation Requirements and chloride concentrations as generally elevated at concentrations greater than Reclamation Requirements but within the range of the expected background chloride concentrations discussed below. Laboratory analytical results are summarized in **Table 3** screened against Reclamation Requirements and analytical data packages including chain of custody documentation are provided in **Attachment 2**.

Additional Soil Assessment

On May 21, 2024, BTA returned to the Site to conduct additional surface sampling and test pitting to complete vertical and horizontal delineation of the release in relation to locations H8 and PH 16. The H8 location sampled on May 21 is different from the H8 location sampled on May 2, and the locations are shown as H8 (5/2) and H8 (5/21) in the figures and tables. Two (2) additional lateral delineation soil samples were collected from the upper 0.5 feet of the soil horizon at H8 (5/21) and PH 16 and two additional vertical delineation soil samples were collected from PH 16. Additional soil assessment location locations are depicted in **Figure 2** and location coordinates are provided in **Table 1**.

Analytical results associated with additional delineation locations H8 (5/21) and test pit PH 16 reported total TPH and chloride as less than Reclamation Requirements. Laboratory analytical results are summarized in **Table 3** screened against Reclamation Requirements and analytical data packages including chain of custody documentation are provided in **Attachment 2**.

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CHLORIDE SOIL BACKGROUND ASSESSMENT

On May 14, 2024, BTA conducted test pitting in the vicinity of the release site to conduct background soil sampling to support a determination of elevated background chloride concentrations at the Site in accordance with 19.15.29 NMAC and the State of New Mexico Energy, Minerals and Natural Resources Department *Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions*, Dated December 1, 2023.

BTA collected seven (7) grab background samples from approximately 4 feet below ground surface (bgs) from areas undisturbed by oil and gas activities surrounding the Site, between 50 and 100 feet away from the horizontal extents of the release or existing disturbed oil and gas development. Background samples are representative of the horizontal and vertical extent of the release area. Additionally, one (1) surface water sample was collected from the playa lake approximately 300 feet to the north and uphill from the Site. Background sample locations are presented in **Table 2** and **Figure 3**.

Collected samples were immediately placed on ice and submitted to Cardinal Laboratory in Hobbs New Mexico for chloride analysis by Method SM4500Cl-B. Background soil sample concentrations ranged from 288 mg/kg at Background - BG 7 @ 4' sample, collected from a location south and downhill from the Site to 6,880 mg/kg at Background - BG 4 @ 4' collected from a location to the east of the Site. The background surface water sample collected from the playa lake reported a concentration of 232,000 mg/L. Soil and surface water background sample laboratory analytical results are summarized in **Table 4** and **Table 5**, respectively. The laboratory analytical data packages are included in **Attachment 2**.

At the direction of the NMOCD, Tetra Tech averaged the seven (7) background sample chloride analytical results to establish 3,080 mg/kg as the NMOCD-approved chloride background remediation criteria at the Site approved by the NMOCD on June 28, 2024.

REMEDIATION WORK PLAN

Based on the analytical results from the assessment, BTA proposed to remove the impacted material within the release extent. Impacted soils were proposed to be excavated using heavy equipment (backhoes, hoe rams, and track hoes) to an approximate depth of 2 to 4 feet below the surrounding surface, or until representative samples from the excavation sidewalls and the floor of the excavation report concentrations of constituents as less than Site Reclamation Requirements or the established soil chloride background concentration.

Once final analytical results are received demonstrating clean margins the excavation will then be backfilled with clean material to surface grade sourced from a local supplier. The original estimated volume of material to be remediated was approximately 5,100 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, BTA requested an alternative confirmation sampling plan to adhere to NMOCD requirements that includes sidewall and base confirmation sampling representative of 400 square feet of excavation base or sidewall area. BTA proposed to submit samples to Cardinal Laboratory for analysis of TPH by Method 8015 modified, BTEX by Method 8260B, and chloride by Method 4500CL-B.

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NMOCD REMEDIATION WORK PLAN APPROVAL

The NMOCD approved the Remediation Work Plan on June 28, 2024, including the proposed Alternative Confirmation Sampling Plan discussed above with the following conditions:

- "OCD approves the vertical delineation of H7, H9, H11, PH3 and PH9 to be completed through excavation and confirmation sampling pursuant to 19.15.29.12 NMAC"; and
- "Due to incomplete delineation information the excavation may need to be extended past the proposed 2 foot and 6 foot depths in order to meet the most stringent remediation closure criteria found on Table I of 19.15.29 NMAC, with an approved background chloride concentration of 3,080 mg/kg"

SOIL REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced during the initial response as described above on April 26, 2024, when Wolverine removed approximately 2,200 cubic yards of impacted material from the upper 1 foot of the Site. On May 16, 2024, the second phase of remediation was initiated by Standard Safety and Supply (Standard) which concluded on July 11, 2024. Standard used heavy equipment to excavate the remaining impacted soil in the vadose zone remediation area to depths of 2, 3, 4, 6, 8, 10, and 11 feet. Standard excavated a total of 8,004 cubic yards of contaminated soil from an approximate total area of 8,000 square feet. Excavated material was transported to R360 Halfway Disposal and Landfill in Hobbs, New Mexico, for offsite disposal. Photographic documentation showing the open excavation is provided in **Attachment 3**.

Confirmation Sampling Notification

On June 3, 2024, Tetra Tech notified the NMOCD of the anticipated initial confirmation sampling through the submission of a C-141N Sampling Notification submission in the NMOCD Permitting portal and provided subsequent C-141N Sampling Notification submissions through the NMOCD Permitting portal up to and including final confirmation sampling at the Site performed on July 19, 2024. Sampling notification was conducted in accordance with 19.15.29.12(D)(1)(a) NMAC and the Energy, Minerals and Natural Resources Department (EMNRD) *Notice Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions* dated December 1, 2023. Sample notifications are available in the NMOCD Portal under Incident ID nAPP2411724780.

Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected a total of 207 final confirmation samples including 168 five-point composite floor samples and 59 five-point composite side wall samples from the excavated areas. The remediation excavation concluded covering a total area of 73,200 square feet and included the following:

- One (1) 11-foot deep excavation with an approximate combined base area of 450 square feet;
- Two (2) 10-foot deep excavations with an approximate combined base area of 3,400 square feet;
- Two (2) 8-foot deep excavations with an approximate combined base area of 750 square feet;
- Seven (7) 6-foot deep excavations with an approximate combined base area of 12,400 square feet;
- Twelve (12) 4-foot deep excavations with an approximate combined base area of 17,000 square feet;
- Two (2) 3-foot deep excavations with an approximate combined base area of 3,100 square feet; and
- Five (5) 2-foot deep excavations with an approximate combined base area of 36,100 square feet.

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In total, the excavation covered 73,200 square-foot base and 7,300 square feet of sidewall for a total area of 80,500 square feet from which 207 final confirmation samples were collected for a sampling density of approximately one sample per 388 square feet. Remediation excavation extents are presented in **Figure 4**, final base confirmation sample locations are presented in **Figure 5**, and final sidewall confirmation sampling locations are presented in **Figure 6**.

Samples were submitted to Cardinal Laboratory in Hobbs, New Mexico for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Base confirmation sample laboratory analytical results screened against Reclamation Requirements are summarized in **Table 6**, Sidewall confirmation sample laboratory analytical results screened against Reclamation Requirements and established background concentrations are summarized in **Table 7**, and laboratory analytical data packages including chain of custody documentation remediation confirmation sampling and groundwater sampling are included in **Attachment 2**.

Remaining Soil Exceedances

Excavations to the 11 feet bgs at BH-46, 10 feet bgs at BH-114 and BH-116, and 6 feet bgs in the pasture we completed as deep as possible until such depth that the top of the water table capillary fringe was encountered. Deeper excavation was not possible in these areas without groundwater filling the excavation and causing a hazard of excavation cave-ins. Groundwater was exposed at BH-46, BH-114, and BH-151 in the base of the excavations where grab groundwater samples were collected and submitted for analysis.

Laboratory analytical results for final soil confirmation samples reported concentrations of BTEX, chloride, and TPH as less than respective Reclamation Requirements or the established background chloride concentration demonstrating clean margins with the exception of 12 base confirmation samples collected from depths consistent with the top of the groundwater bearing zone.

BH-45 collected from beneath the former tank battery and BH-133, BH-134, BH-139, BH-140, BH-141, BH-142, BH-147, BH-148, BH-150, BH-151, and BH-153 collected from the pasture reported chloride at concentrations greater than the established background at the limits of excavation due to groundwater as discussed below.

BH-114 reported concentrations of Total BTEX and Total TPH as greater than Reclamation Requirements and BH-115 reported Total TPH as greater than Reclamation Requirements in the base soil confirmation samples collected from 10.0 to 10.5 feet bgs at these locations. These analytical results are indicative of BTEX and TPH impacts to groundwater resulting from the battery fire release. **Figure 7** presents base soil confirmation samples where impacts remain at concentrations greater than remediation criteria and **Table 8** presents sample results screened against Reclamation Requirements and the established chloride background concentration.

Groundwater Impacts

Based on the reported surface water and groundwater chloride concentrations presented in **Table 5** and **Table 9**, the reported chloride concentrations in final base confirmation samples collected from BH-45, BH-114, BH-115, BH-133, BH-134, BH-139, BH-140, BH-141, BH-142, BH-147, BH-148, BH-150, BH-151, and BH-153 are indicative of naturally occurring chloride concentrations in the groundwater and not indicative of impacts from the battery fire release.

Groundwater sample BH-114-GW, collected from exposed groundwater at an approximate depth of 10.5 feet bgs at BH-114, reported concentrations of BTEX and Total TPH of which benzene was reported as greater than 19.15.30.9 NMAC Abatement Standards and Requirements defined in 20.6.2.3103 NMAC, therefore groundwater abatement at the Site is warranted. Groundwater sample locations are depicted in **Figure 8** and laboratory analytical results screened against 20.6.2.3103 Standards for Ground Water of 10,000 mg/l TDS Concentration or Less are presented in **Table 9**.

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Reclamation and Revegetation

To restore the impacted surface areas to the condition that existed prior to the release, the excavated areas of the facility pad have been backfilled with clean topsoil and caliche and the disturbed pasture areas have been backfilled with clean soil. The disturbed areas have been graded back to match the surrounding topography and the pre-existing conditions prior to contouring to provide erosion control, long-term stability, prevent ponding of water, and preserve surface water flow patterns.

Subsequent to restoring topography and contouring the disturbed areas, disturbed pasture areas of the Site were seeded with New Mexico State Land Office (NMSLO) Loamy (L) Sites Seed Mixture to aid in vegetation growth to complete reclamation in accordance with the Site soil profile detailed above in the Site Characterization Section. Seeding was broadcast and harrowed in per the specifications for broadcast application in pound pure live seed per acre according to the NMSLO Loamy (L) seed mix data sheet provided in **Attachment 4**.

Site inspections will be performed periodically to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the Bureau of Land Management will be contacted to determine an effective method for eradication. If the pasture portion of the Site does not show revegetation after one growing season, the area will be reseeded as appropriate.

Additional Reclamation and Revegetation of the facility will be conducted at the end-of-life of the facility subsequent to decommissioning and deconstruction

GROUNDWATER REMEDIATION WORK PLAN

BTA proposes to manage the Site under 19.15.30 NMAC moving forward. Site soil remediation activities have demonstrated that groundwater impacts of BTEX and TPH are present at the site and high chloride concentrations are present in groundwater that are likely naturally occurring background.

The soil vadose zone has been abated through remediation excavation of impacted materials under 19.15.29 NMAC, and clean material has been used to backfill the excavations such that contaminants in the vadose zone are not present at concentrations to contaminate groundwater in excess of the standards in Subsections B and C of 19.15.30.9 NMAC, through leaching, percolation or other transport mechanisms, or as the water table elevation fluctuates.

BTA proposes to develop a Stage 1 groundwater abatement plan that will include a specific Site groundwater investigation design including groundwater monitoring well installation and sampling to adequately define Site groundwater conditions, and provide the data necessary to develop an effective abatement strategy. The Stage 1 abatement plan will include the following:

- Site description including the details of the release resulting in groundwater impacts, a Site history narrative including a summary of previous investigation, and a Site map;
- Site geology and hydrogeology; the vertical and horizontal extent and magnitude of vadose-zone and ground-water contamination; subsurface hydraulic conductivity; transmissivity, storativity, and rate and direction of contaminant migration; inventory of water wells within one mile of Subsection C of 19.15.30.9 NMAC groundwater concentration exceedances; and the location and number of wells the pollution actually or potentially affects;
- Surface water hydrology, seasonal stream flow characteristics, groundwater/surfacewater relationships, the vertical and horizontal extent and magnitude of contamination and impacts to surface water and stream sediments; the magnitude of contamination and impacts on surface water may be, in part, defined by conducting a biological assessment of fish, benthic macroinvertebrates and other wildlife populations;

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- A monitoring program, including sampling stations and frequencies, for the abatement plan's duration that may be modified with NMOCD approval as greater volumes of data are collected;
- A Quality Assurance/Quality Control (QA/QC) Plan in accordance with Subsection B of 20.6.2.3107 NMAC and 20.6.4.14 NMAC;
- A schedule for stage 1 abatement plan activities, including installation of groundwater monitoring wells, the groundwater sampling frequency, submission of summary quarterly progress reports, and the submission of a detailed final site investigation report; and
- Any additional information that may be required to design and perform an adequate site investigation.

CONCLUSION

Based on the results of the confirmation sampling, the impacted vadose zone soil within the release footprint with TPH and BTEX greater than Reclamation Requirements and chloride greater than the established background concentration have been removed and properly disposed of offsite and confirmation samples demonstrated clean margins with the exception of areas where the excavation was advanced to the interface of the vadose zone and the top of the water table. Chloride impacts at concentrations greater than the established background are present at these locations at the interface of the vadose zone and the water-bearing and are understood to be due to naturally occurring chloride concentrations in groundwater.

BTEX and TPH impacts above Reclamation Requirements are present in the soil base confirmation samples collected from the interface of the vadose zone and water table at 10.5 feet bgs at BH-114 and BH-115 that have been demonstrated to have impacted groundwater with BTEX and TPH, with benzene measured at a concentration of 0.014 mg/L, above the 20.6.2.3103 NMAC groundwater abatement standards of 0.005 mg/L.

Vadose Zone Soil remediation at the Site is complete. Vadose zone soil impacted above Reclamation Requirements and/or the established chloride background concentrations has been excavated and properly disposed of offsite. **Figure 5** shows where Base confirmation samples indicate BTEX and TPH impacts to groundwater and elevated chloride concentrations due to chloride concentrations in groundwater. Excavated areas have been backfilled with clean soil and caliche, the former facility pad footprint has been restored and the pasture has been reclaimed with clean soil, graded, and seeded.

Groundwater impacts have been demonstrated for BTEX and TPH in the vicinity of BH-114 and BH-115 and chloride has been reported at concentrations above 250 mg/L in the three samples analyzed, therefore, BTA proposes to transition the site to groundwater abatement managed under 19.15.30 NMAC moving forward and will prepare a Phase 1 Groundwater Abatement Work Plan for submission to the NMOCD that will include a proposed groundwater monitoring well network to delineate groundwater impacts, establish groundwater background chloride concentrations, and inform abatement options for the Stage 2 Groundwater Abatement Plan.

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If you have any questions concerning the remediation activities for the Site, please email Charles Terhune at chuck.terhune@tetrattech.com or telephone at (832) 252-2093.

Sincerely,



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

Nicholas Poole
Program Manager
Tetra Tech, Inc.

cc: Ray Ramos, BTA Oil Producers, LLC
Bureau of Land Management

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LIST OF ATTACHMENTS

Figures

- Figure 1 – Overview and Topographic Map
- Figure 2 – Approximate Release Extent and Site Assessment Map
- Figure 3 – Background Sample Location Map
- Figure 4 – Remediation Extents
- Figure 5 – Base Confirmation Sampling Locations
- Figure 6 – Sidewall Confirmation Sampling Locations
- Figure 7 – Remaining Confirmation Sample Impacts
- Figure 8 – Groundwater Sample Locations

Tables

- Table 1 – Site Assessment Location Coordinates
- Table 2 – Background Assessment Location Coordinates
- Table 3 – Summary of Analytical Results – Site Assessment Sampling
- Table 4 – Summary of Analytical Results – Soil Background Assessment Sampling
- Table 5 – Summary of Analytical Results – Surface Water Background Assessment Sampling
- Table 6 – Summary of Analytical Results – Base Confirmation Sampling
- Table 7 – Summary of Analytical Results – Sidewall Confirmation Sampling
- Table 8 – Summary of Analytical Results – Remaining Base Confirmation Sample Impacts
- Table 9 – Summary of Analytical Results – Groundwater Assessment Sampling

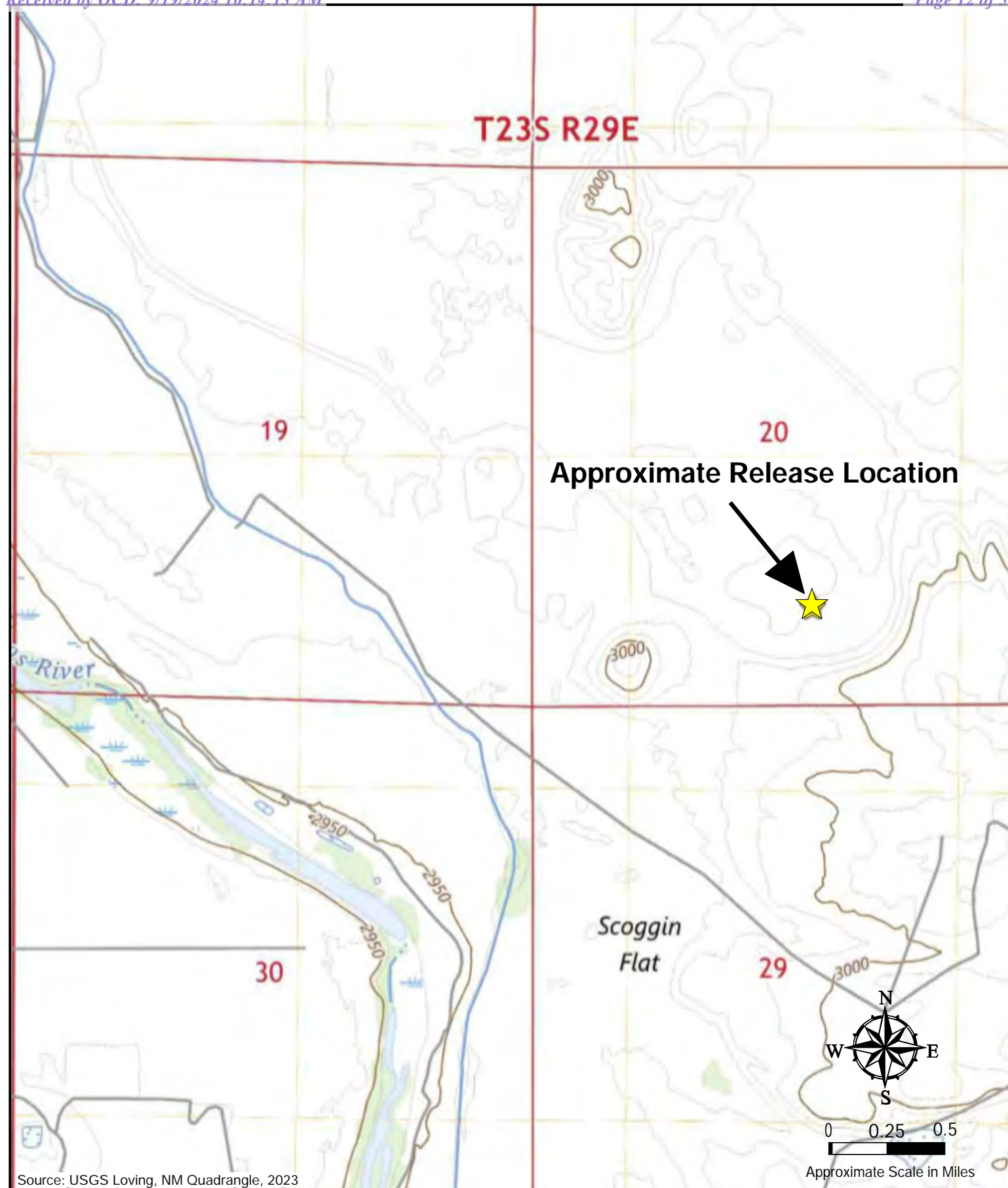
Attachments

- Attachment 1 – Site Characterization Data
- Attachment 2 – Laboratory Analytical Data
- Attachment 3 – Photographic Log
- Attachment 4 – Seed Mixture Details

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FIGURES



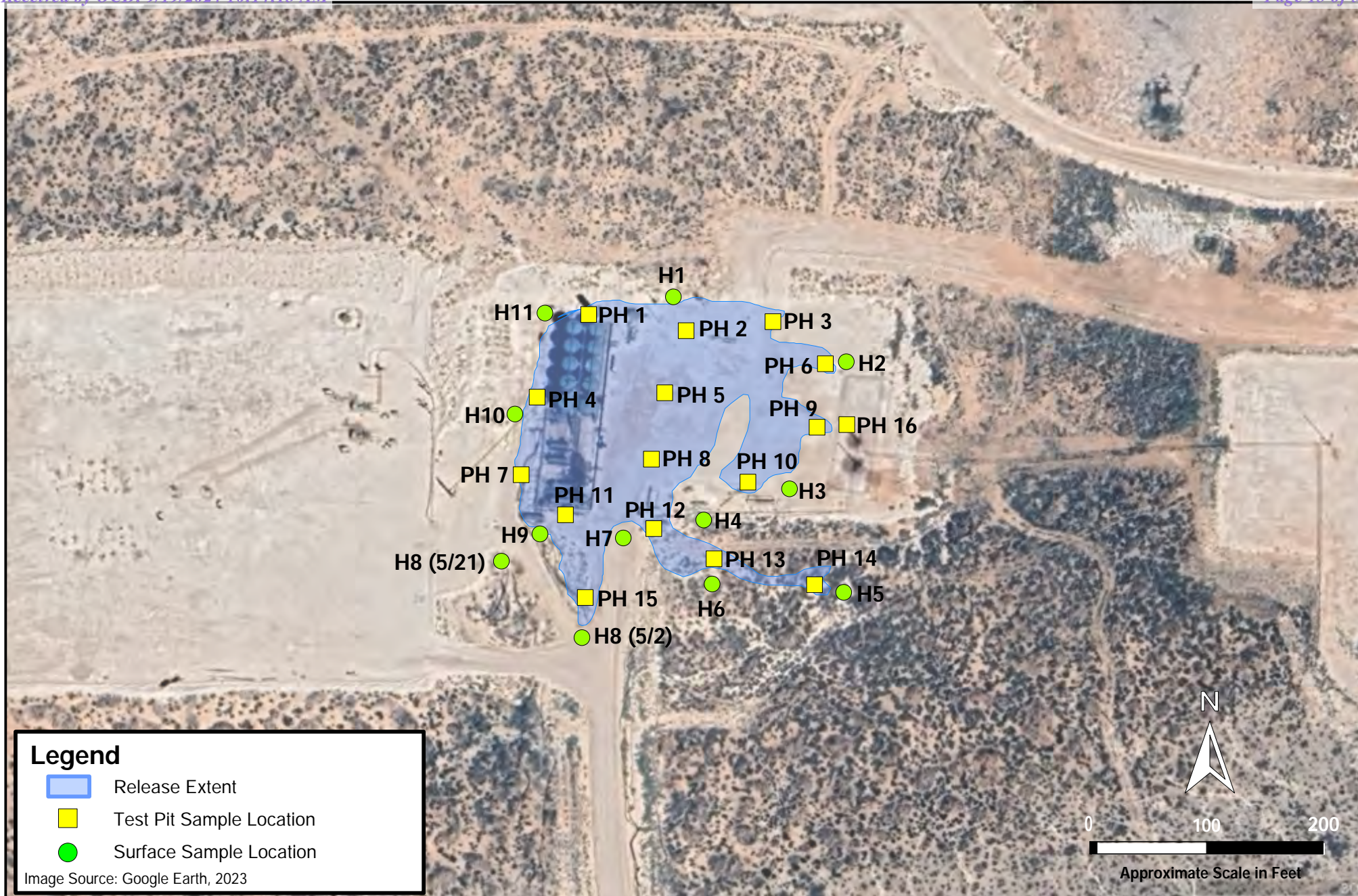
Source: USGS Loving, NM Quadrangle, 2023

**TETRA TECH**1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042

BTA OIL PRODUCERS, LLC
NAPP2411724780
32.285895°, -104.006467°
EDDY COUNTY, NEW MEXICO
HARROUN RANCH WEST FIRE
SITE LOCATION MAP

PROJECT NO: TBD
DATE: 05/08/2023
DESIGNED BY: CHT

Figure
1



1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042

BTA OIL PRODUCERS, LLC

nAPP2411724780

32.285895°, -104.006467°

LEA COUNTY, NEW MEXICO

HARROUND RANCH WEST FIRE

APPROXIMATE RELEASE EXTENT AND SITE ASSESSMENT MAP

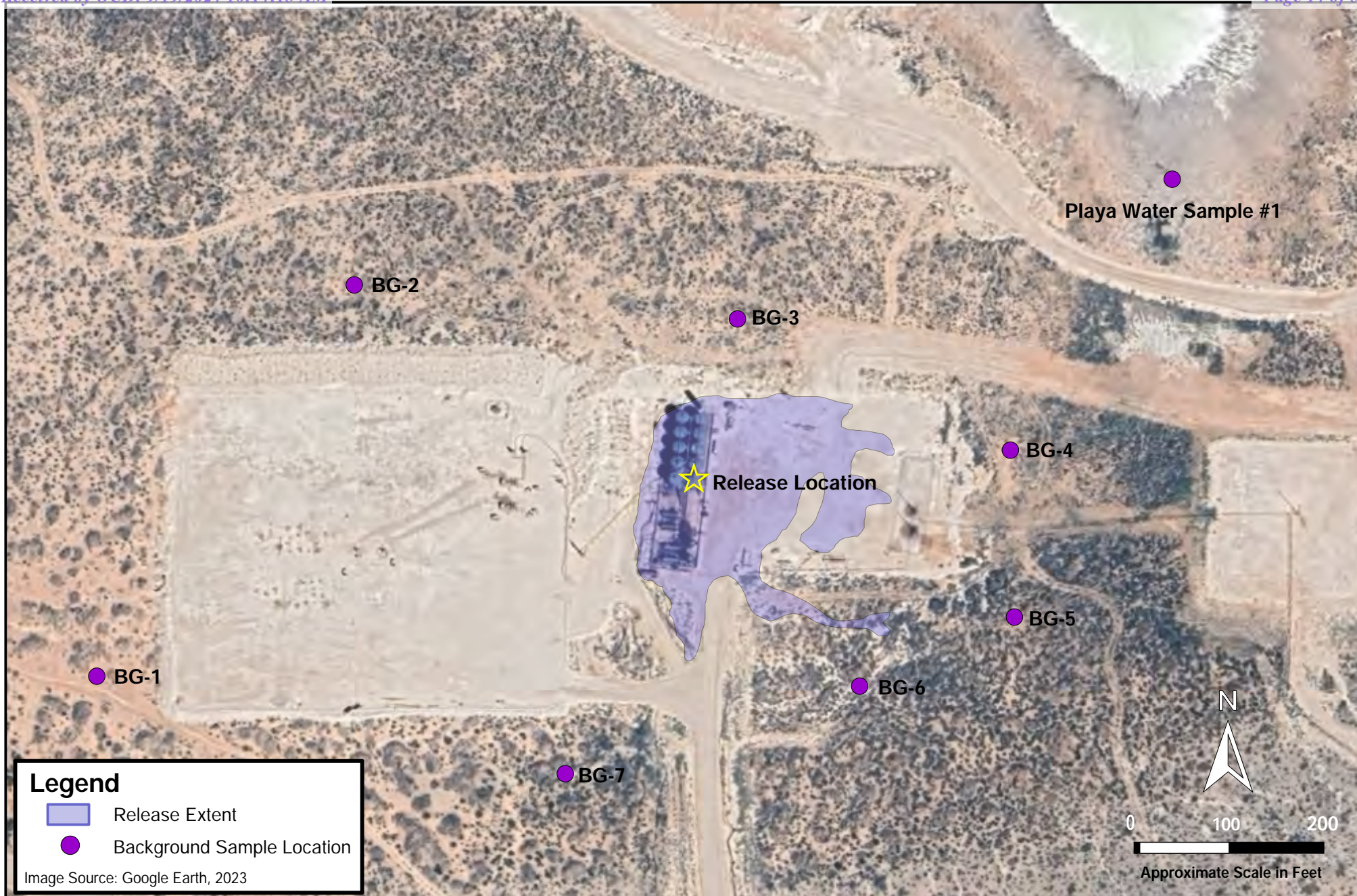
PROJECT NO: 212C-MD-03474

DATE: MAY 8, 2024

DESIGNED BY: CHT

Figure No.

2

**TETRA TECH**

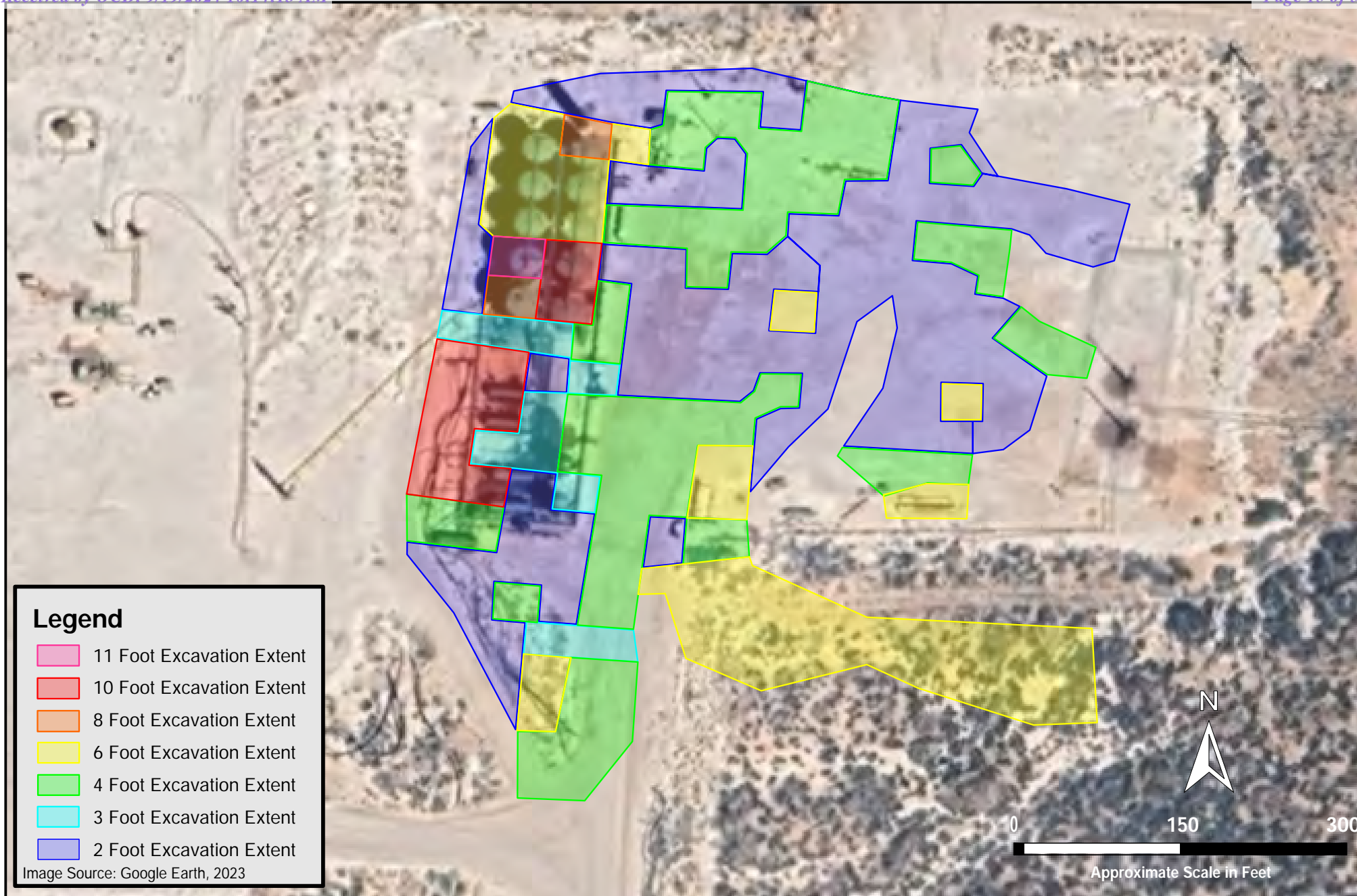
1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042

BTA OIL PRODUCERS, LLC
nAPP2411724780
32.285895°, -104.006467°
LEA COUNTY, NEW MEXICO
HARROUN RANCH WEST FIRE
BACKGROUND SAMPLE LOCATION MAP

PROJECT NO: 212C-MD-03474
DATE: MAY 28, 2024
DESIGNED BY: CHT

Figure No.

3

**TETRA TECH**

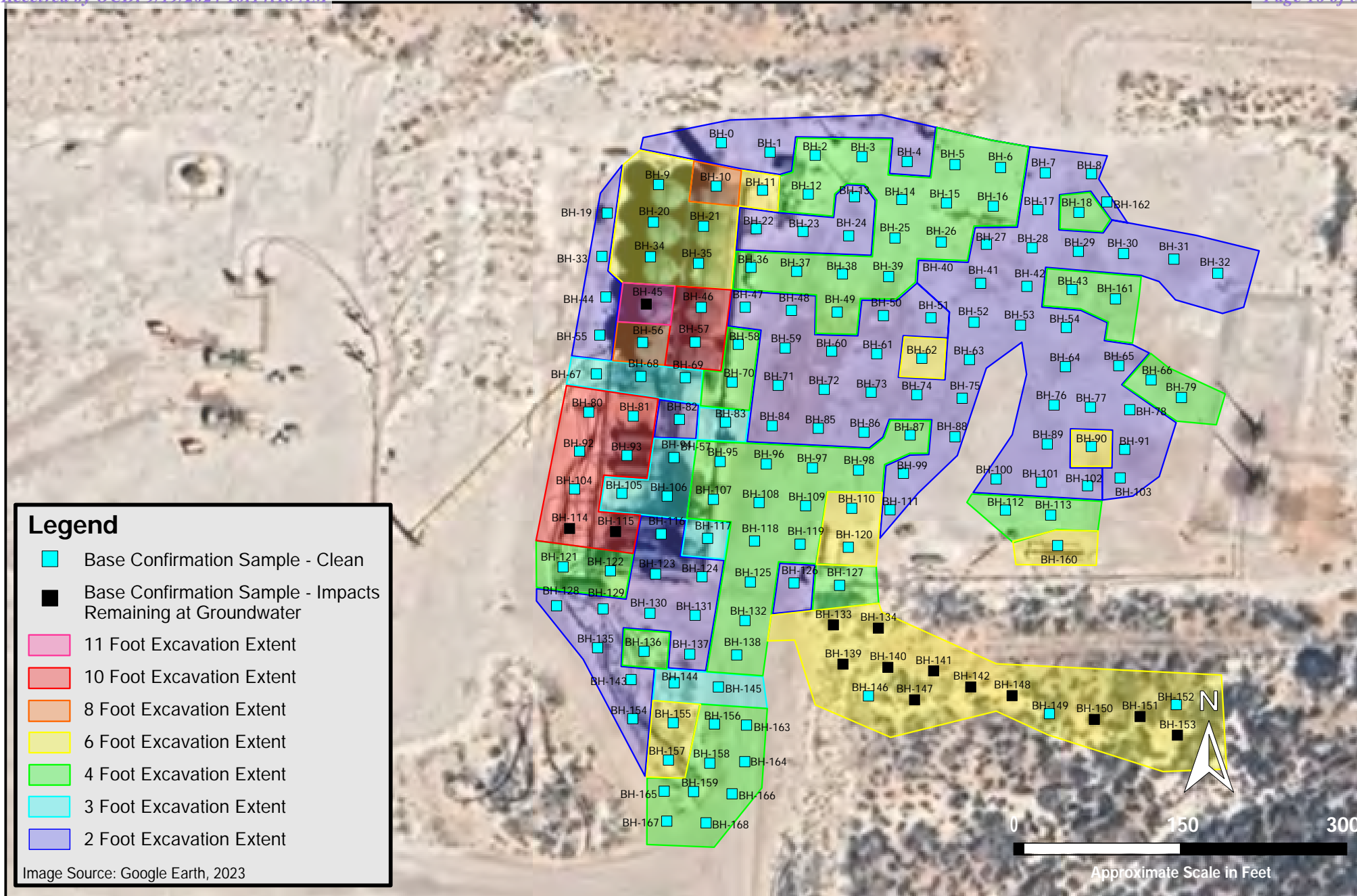
1500 CityWest Boulevard
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Houston, Texas 77042

BTA OIL PRODUCERS, LLC
nAPP2411724780
32.285895°, -104.006467°
LEA COUNTY, NEW MEXICO
**HARROUN RANCH WEST FIRE
REMEDiation EXTENTS**

PROJECT NO: 212C-MD-03474
DATE: AUGUST 27, 2024
DESIGNED BY: CHT

Figure No.

4



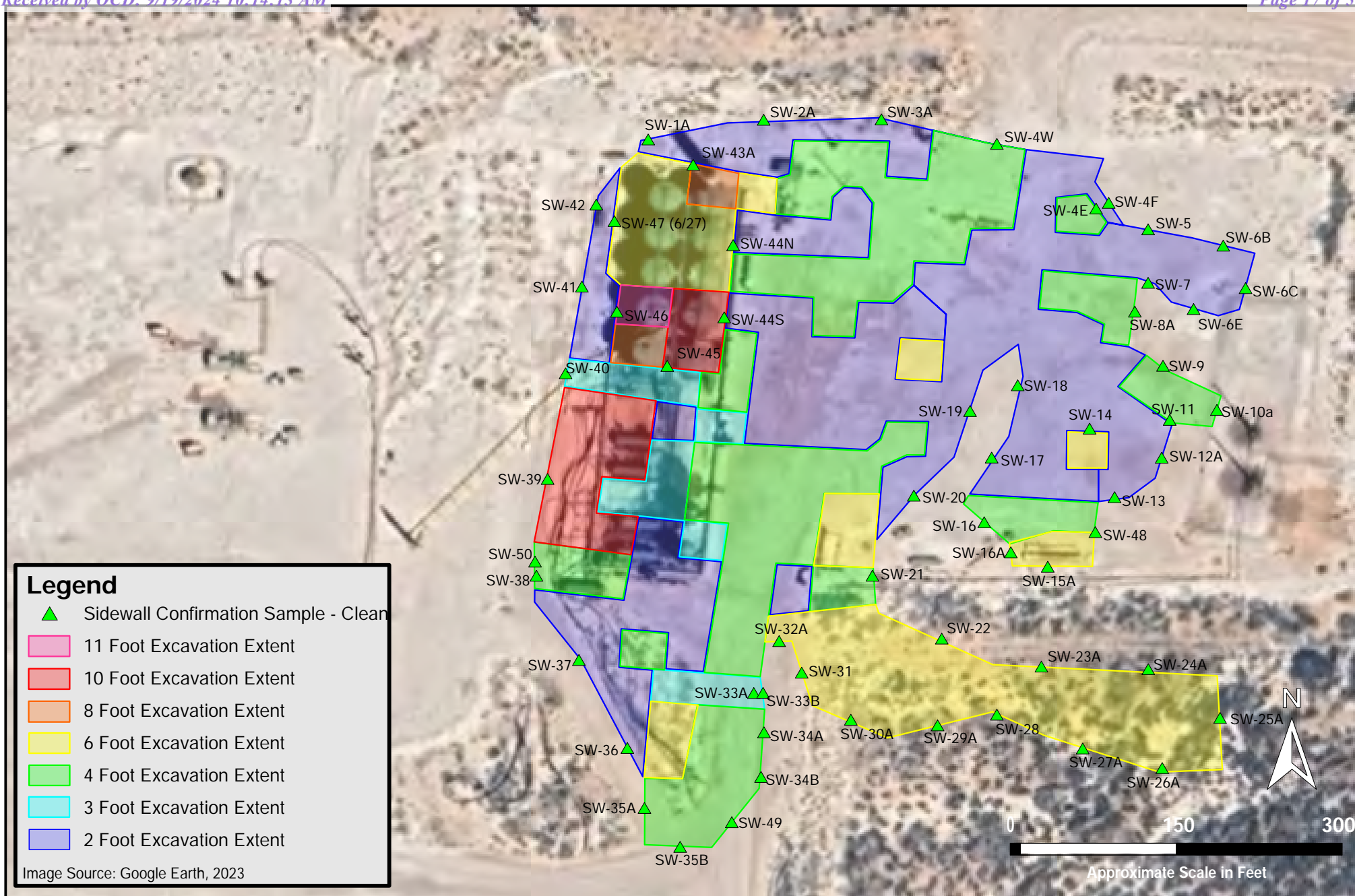
1500 CityWest Boulevard
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BTA OIL PRODUCERS, LLC
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32.285895°, -104.006467°
LEA COUNTY, NEW MEXICO
HARROUN RANCH WEST FIRE
BASE CONFIRMATION SAMPLE LOCATIONS

PROJECT NO: 212C-MD-03474
DATE: AUGUST 27, 2024
DESIGNED BY: CHT

Figure No.

5



TETRA TECH

1500 CityWest Boulevard
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Houston, Texas 77042

BTA OIL PRODUCERS, LLC

nAPP2411724780

32.285895°, -104.006467°

LEA COUNTY, NEW MEXICO

**HARROUN RANCH WEST FIRE
SIDEWALL CONFIRMATION SAMPLE LOCATIONS**

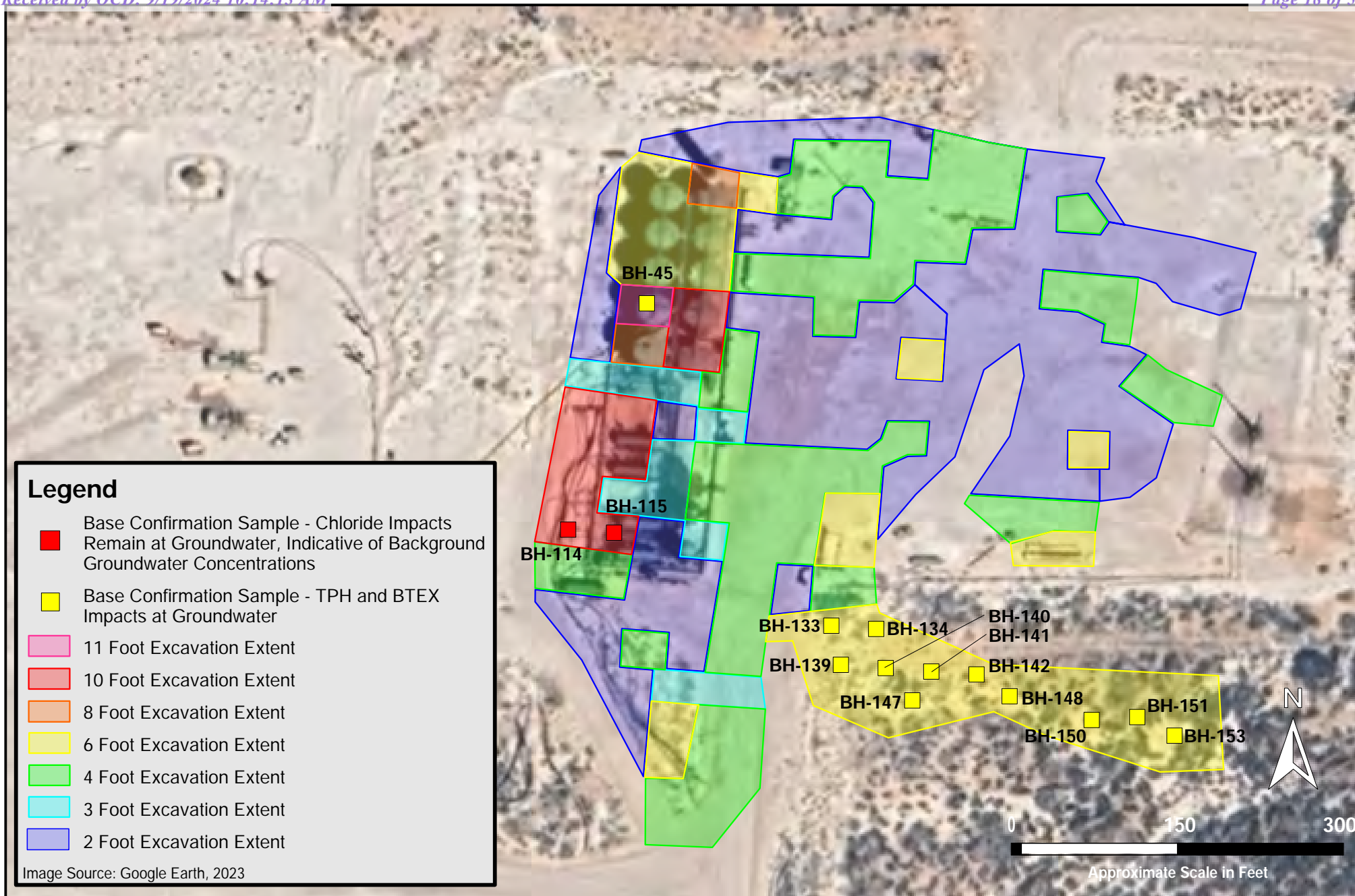
PROJECT NO: 212C-MD-03474

DATE: AUGUST 27, 2024

DESIGNED BY: CHT

Figure No.

6



TETRA TECH

1500 CityWest Boulevard
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BTA OIL PRODUCERS, LLC

nAPP2411724780

32.285895°, -104.006467°

LEA COUNTY, NEW MEXICO

HARROUN RANCH WEST FIRE

**FINAL SAMPLE LOCATIONS WITH REMAINING
IMPACTS INDICATIVE OF GROUNDWATER**

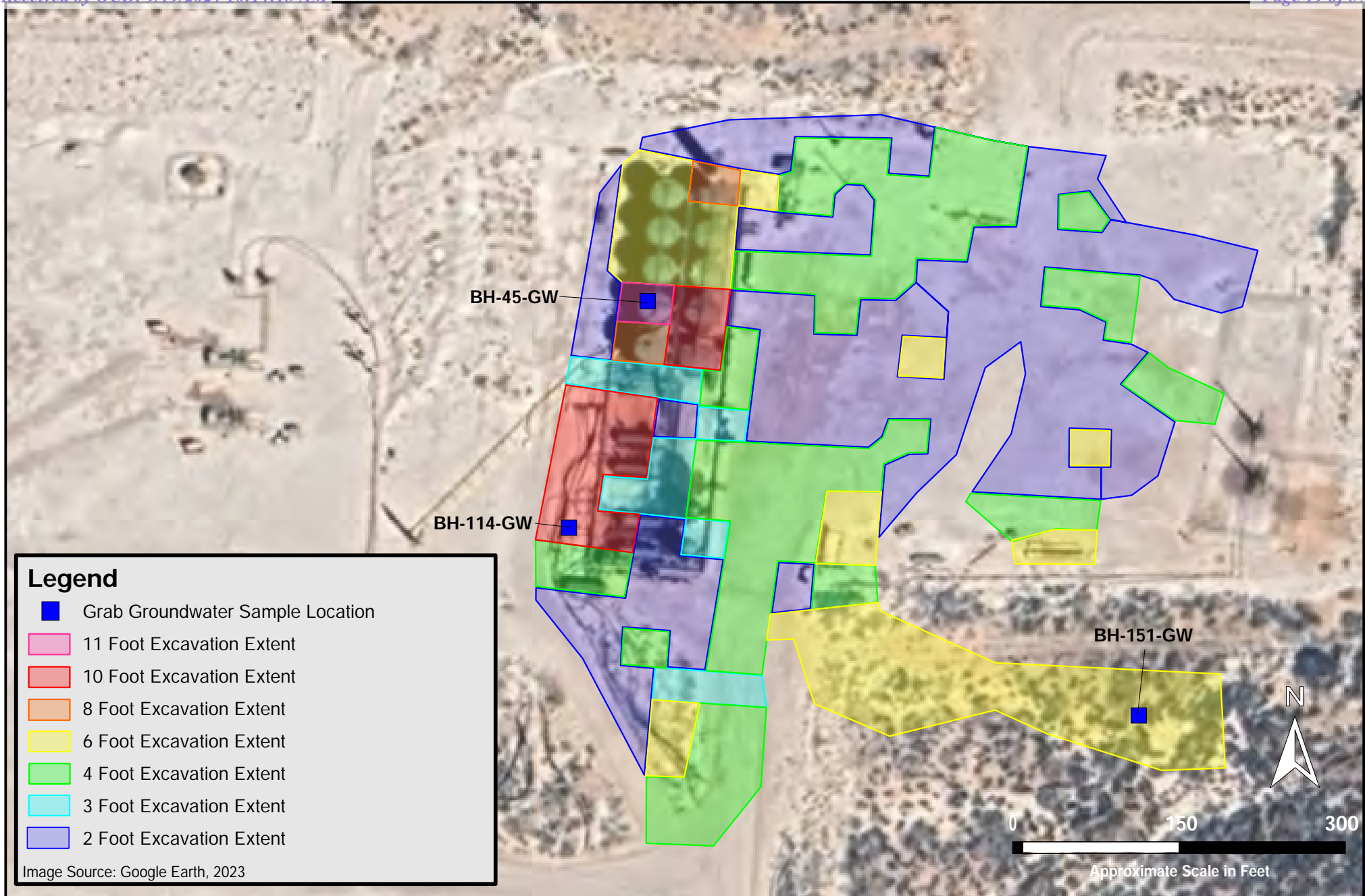
PROJECT NO: 212C-MD-03474

DATE: AUGUST 27, 2024

DESIGNED BY: CHT

Figure No.

7



TETRA TECH

1500 CityWest Boulevard
Suite 1000
Houston, Texas 77042

BTA OIL PRODUCERS, LLC
nAPP2411724780
32.285895°, -104.006467°
LEA COUNTY, NEW MEXICO
HARROUN RANCH WEST FIRE
GROUNDWATER SAMPLE LOCATIONS

PROJECT NO: 212C-MD-03474
DATE: AUGUST 27, 2024
DESIGNED BY: CHT

Figure No.

8

Remediation Report
BTA Oil Producers, LLC
Harroun Ranch West Fire
Incident ID# nAPP2411724780

August 19, 2024

TABLES


TETRA TECH

TABLE 1

SOIL ASSESSMENT LOCATIONS

INCIDENT ID nAPP2411724780

BTA OIL PRODUCERS, LLC

HARROUN RANCH WEST FIRE

EDDY COUNTY, NEW MEXICO

Boring ID	Date	Latitude	Longitude
H 1	5/2/2024	32.286109	-104.006241
H 2	5/2/2024	32.286059	-104.006032
H 3	5/2/2024	32.285842	-104.006017
H 4	5/2/2024	32.285572	-104.006117
H 5	5/2/2024	32.285345	-104.006038
H 6	5/2/2024	32.285345	-104.006038
H 7	5/2/2024	32.285392	-104.005908
H 8 (5/2)	5/2/2024	32.285288	-104.006379
H 8 (5/21)	5/2/2024	32.285288	-104.006379
H 9	5/2/2024	32.285343	-104.006389
H 10	5/2/2024	32.285728	-104.006523
H 11	5/2/2024	32.285987	-104.006564
PH 1	5/2/2024	32.286030	-104.006467
PH 2	5/2/2024	32.286035	-104.006290
PH 3	5/2/2024	32.286109	-104.006241
PH 4	5/2/2024	32.285755	-104.006096
PH 5	5/2/2024	32.286035	-104.006290
PH 6	5/2/2024	32.285755	-104.006096
PH 7	5/2/2024	32.285603	-104.006470
PH 8	5/2/2024	32.285696	-104.006298
PH 9	5/2/2024	32.285776	-104.005881
PH 10	5/2/2024	32.285708	-104.005975
PH 11	5/2/2024	32.285696	-104.006298
PH 12	5/2/2024	32.285457	-104.006206
PH 13	5/2/2024	32.285345	-104.006038
PH 15	5/2/2024	32.285355	-104.006297
PH 16	5/2/2024 & 5/21/2024	32.285822	-104.005563

**TETRA TECH****TABLE 2****BACKGROUND ASSESSMENT LOCATIONS****INCIDENT ID nAPP2411724780****BTA OIL PRODUCERS, LLC****HARROUN RANCH WEST FIRE****EDDY COUNTY, NEW MEXICO**

Test Pit Locatoin	Date	Latitude	Longitude
Background BG-1	5/14/2024	32.286109	-104.006241
Background BG-2	5/14/2024	32.286059	-104.006032
Background BG-3	5/14/2024	32.285842	-104.006017
Background BG-4	5/14/2024	32.285572	-104.006117
Background BG-5	5/14/2024	32.285345	-104.006038
Background BG-6	5/14/2024	32.285345	-104.006038
Background BG-7	5/14/2024	32.285392	-104.005908



TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	> C ₁₀ - C ₂₈	> C ₂₈ - C ₃₆	mg/kg					
Reclamation Requirements (19.15.29 NMAC)			6,880		10								50							100		
H 1 0-6"	5/2/2024	0.0 - 0.5	1,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
H 2 0-6"	5/2/2024	0.0 - 0.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
H 3 0-6"	5/2/2024	0.0 - 0.5	224		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
H 4 0-6"	5/2/2024	0.0 - 0.5	2,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
H 5 0-6"	5/2/2024	0.0 - 0.5	1,010		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
H 6 0-6"	5/2/2024	0.0 - 0.5	1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
H 7 0-6"	5/2/2024	0.0 - 0.5	3,160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
H 8 0-6" (5/2)	5/2/2024	0.0 - 0.5	1,540		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
H8 @ 0-6" (5/21)	5/21/2024	0.0 - 0.5	288		-		-		-		-		-		<49.9		<49.9		<49.9	-		
H 9 0-6"	5/2/2024	0.0 - 0.5	3,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		141		<10.0	141		
H 10 0-6"	5/2/2024	0.0 - 0.5	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
H 11 0-6"	5/2/2024	0.0 - 0.5	4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 1 4-6'	5/2/2024	4.0 - 6.0	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 2 2-4'	5/2/2024	2.0 - 4.0	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 3 2-4'	5/2/2024	2.0 - 4.0	6,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 4 4-6'	5/2/2024	4.0 - 6.0	2,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 5 2-4'	5/2/2024	2.0 - 4.0	2,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 6 2-4'	5/2/2024	2.0 - 4.0	176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 7 2-4'	5/2/2024	2.0 - 4.0	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 8 2-4'	5/2/2024	2.0 - 4.0	304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 9 2-4'	5/2/2024	2.0 - 4.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<100		2,520		955	3,475		
PH 10 2-4'	5/2/2024	2.0 - 4.0	32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 11 4-6'	5/2/2024	4.0 - 6.0	1,330		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 12 4-6'	5/2/2024	4.0 - 6.0	1,250		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 13 4-6'	5/2/2024	4.0 - 6.0	1,380		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 14 4-6'	5/2/2024	4.0 - 6.0	2,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 15 4-6'	5/2/2024	4.0 - 6.0	1,490		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 16 @ 0-6"	5/21/2024	0.0 - 0.5	350		-		-		-		-		-		<50.0		<50.0		<50.0	-		
PH 16 2-4'	5/2/2024	2.0 - 4.0	816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0	-		
PH 16 @ 2-4'	5/21/2024	2.0 - 4.0	411		-		-		-		-		-		<49.9		<49.9		<49.9	-		

NOTES:

bgs: Below ground surface

GRO: Gasoline Range Organics

1: Method SM4500Cl-B

mg/kg: Milligrams per kilogram

DRO: Diesel Range Organics

2: Method 8021B

TPH: Total Petroleum Hydrocarbons

EXT DRO: Oil Range Organics

3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC) or the established chloride background concentration.

TABLE 4
SUMMARY OF ANALYTICAL RESULTS
SOIL BACKGROUND ASSESSMENT SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹	
		feet bgs	mg/kg	Q
Reclamation Requirements (19.15.29 NMAC)			600	
BACKGROUND - BG 1 @ 4'	5/14/2024	4.0 - 4.5	3,280	
BACKGROUND - BG 2 @ 4'	5/14/2024	4.0 - 4.5	1,630	
BACKGROUND - BG 3 @ 4'	5/14/2024	4.0 - 4.5	1,960	
BACKGROUND - BG 4 @ 4'	5/14/2024	4.0 - 4.5	6,880	
BACKGROUND - BG 5 @ 4'	5/14/2024	4.0 - 4.5	4,800	
BACKGROUND - BG 6 @ 4'	5/14/2024	4.0 - 4.5	2,720	
BACKGROUND - BG 7 @ 4'	5/14/2024	4.0 - 4.5	288	

NOTES:

bgs: Below ground surface

mg/kg: Milligrams per kilogram

1: Method SM4500Cl-B

TABLE 5
SUMMARY OF ANALYTICAL RESULTS
SURFACE WATER BACKGROUND ASSESSMENT SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth feet below surface	Chloride ¹	
			mg/kg	Q
PLAYA WATER SAMPLE # 1	5/15/2024	0.0 - 1.0	232,000	

NOTES:
mg/L: Milligrams per kilogram
1: Method SM4500CI-B



TABLE 6
SUMMARY OF ANALYTICAL RESULTS
SOIL BASE CONFIRMATION SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			3,080		10								50								100	
BH - 0 @ 2-2.5'	6/6/2024	2.0 - 2.5	2,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.6		<10.0		22.6	
BH - 1 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 2 @ 2-2.5	6/11/2024	2.0 - 2.5	1,390		<0.050		<0.050		<0.050		<0.150		<0.300		72.8		4940		607		5,620	
BH - 2 @ 4-4.5'	6/23/2024	4.0 - 4.5	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 3 @ 2-2.5	6/11/2024	2.0 - 2.5	3,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		17.3		<10.0		17.3	
BH - 3 @ 4-4.5'	6/23/2024	4.0 - 4.5	1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 4 @ 2-2.5	6/11/2024	2.0 - 2.5	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 5 @ 2-2.5	6/11/2024	2.0 - 2.5	4,200		<0.050		<0.050		<0.050		<0.150		<0.300		11.1		366		47.1		424.2	
BH - 5 @ 4-4.5'	6/23/2024	4.0 - 4.5	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 6 @ 2-2.5	6/11/2024	2.0 - 2.5	960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		319		<10.0		319	
BH - 6 @ 4-4.5'	6/27/2024	4.0 - 4.5	1,540		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 7 @ 2-2.5	6/11/2024	2.0 - 2.5	1,540		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		19		<10.0		19	
BH - 8 @ 2-2.5	6/11/2024	2.0 - 2.5	288		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 9 @ 6-6.5'	6/6/2024	4.0 - 4.5	3,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		83.4		15		98.4	
BH - 9 @ 6-6.5'	6/23/2024	6.0 - 6.5	1,580		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 10 @ 6-6.5'	6/6/2024	6.0 - 6.5	3,520		<0.050		<0.050		<0.050		0.179		<0.300		15.2		626		129		770.2	
BH - 10 @ 8-8.5'	6/25/2024	8.0 - 8.5	1,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 11 @ 2-2.5'	6/6/2024	2.0 - 2.5	3,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		34.1		<10.0		34.1	
BH - 11 @ 8-8.5'	6/25/2024	8.0 - 8.5	1,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 12 @ 2-2.5	6/11/2024	2.0 - 2.5	5,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		1190		336		1,526	
BH - 12 @ 4-4.5'	6/25/2024	4.0 - 4.5	1,820		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 13 @ 2-2.5	6/11/2024	2.0 - 2.5	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 14 @ 2-2.5	6/11/2024	2.0 - 2.5	3,920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		15.7		<10.0		15.7	
BH - 14 @ 4-4.5'	6/23/2024	4.0 - 4.5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 15 @ 2-2.5	6/11/2024	2.0 - 2.5	3,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		534		44.4		578.4	
BH - 15 @ 4-4.5'	6/23/2024	4.0 - 4.5	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 16 @ 2-2.5	6/11/2024	2.0 - 2.5	1,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		2250		31.6		2,281.6	
BH - 16 @ 4-4.5'	6/27/2024	4.0 - 4.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 17 @ 2-2.5	6/11/2024	2.0 - 2.5	1,060		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		13.4		<10.0		13.4	
BH - 18 @ 2-2.5	6/11/2024	2.0 - 2.5	5,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 18 @ 4-4.5'	7/1/2024	4.0 - 4.5	2,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 19 @ 2-2.5'	6/6/2024	2.0 - 2.5	3,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 20 @ 6-6.5'	6/6/2024	6.0 - 6.5	2,920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		32		<10.0		32	
BH - 21 @ 6-6.5'	6/6/2024	6.0 - 6.5	3,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 22 @ 2-2.5	6/11/2024	2.0 - 2.5	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 23 @ 2-2.5	6/11/2024	2.0 - 2.5	688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		15.1		<10.0		15.1	
BH - 24 @ 2-2.5	6/11/2024	2.0 - 2.5	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		19		<10.0		19	



TABLE 6
SUMMARY OF ANALYTICAL RESULTS
SOIL BASE CONFIRMATION SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			3,080		10							50									100	
BH - 25 @ 2-2.5	6/11/2024	2.0 - 2.5	7,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		299		89.3		388.3	
BH - 25 @ 4-4.5'	6/23/2024	4.0 - 4.5	1,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 26 @ 2-2.5	6/11/2024	2.0 - 2.5	7,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		2880		762		3,642	
BH - 26 @ 4-4.5'	6/25/2024	4.0 - 4.5	80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 27 @ 2-2.5	6/11/2024	2.0 - 2.5	2,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 28 @ 2-2.5	6/11/2024	2.0 - 2.5	1,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 29 @ 2-2.5	6/11/2024	2.0 - 2.5	1,890		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 30 @ 2-2.5	6/11/2024	2.0 - 2.5	1,950		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 31 @ 2-2.5	6/11/2024	2.0 - 2.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 32 @ 2-2.5	6/11/2024	2.0 - 2.5	160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 33 @ 2-2.5'	6/6/2024	2.0 - 2.5	2,160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 34 @ 6-6.5'	6/6/2024	6.0 - 6.5	2,520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 35 @ 6-6.5'	6/6/2024	6.0 - 6.5	2,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 36 @ 2-2.5	6/11/2024	2.0 - 2.5	6,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		282		107		389	
BH - 36 @ 4-4.5'	6/25/2024	4.0 - 4.5	1,070		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 37 @ 2-2.5	6/11/2024	2.0 - 2.5	7,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		1300		463		1,763	
BH - 37 @ 4-4.5'	6/25/2024	4.0 - 4.5	1,180		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 38 @ 4-4.5'	6/25/2024	4.0 - 4.5	1,580		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 39 @ 2-2.5	6/11/2024	2.0 - 2.5	3,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		1250		334		1,584	
BH - 39 @ 4-4.5'	6/25/2024	4.0 - 4.5	736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 40 @ 2-2.5	6/11/2024	2.0 - 2.5	2,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 41 @ 2-2.5	6/11/2024	2.0 - 2.5	2,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		41.4		11.2		52.6	
BH - 42 @ 2-2.5'	6/6/2024	2.0 - 2.5	1,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 43 @ 2-2.5'	6/6/2024	2.0 - 2.5	2,520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		174		51		225	
BH - 43 @ 4-4.5'	6/23/2024	4.0 - 4.5	2,190		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 44 @ 2-2.5'	6/6/2024	2.0 - 2.5	2,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		33.7		12.3		46	
BH - 45 @ 6-6.5'	6/6/2024	6.0 - 6.5	3,520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		112		19		131	
BH - 45 @ 10-10.5'	6/24/2024	10 - 10.5	6,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 46 @ 6-6.5'	6/6/2024	6.0 - 6.5	6,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		445		130		575	
BH - 46 @ 10-10.5'	6/24/2024	10.0 - 10.5	2,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 47 @ 2-2.5	6/11/2024	2.0 - 2.5	832		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 48 @ 2-2.5	6/11/2024	2.0 - 2.5	1,300		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 49 @ 2-2.5	6/11/2024	2.0 - 2.5	2,440		<0.050		<0.050		<0.050		0.41		0.41		22.4		621		159		802.4	
BH - 49 @ 4-4.5'	6/25/2024	4.0 - 4.5	1,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 50 @ 2-2.5	6/11/2024	2.0 - 2.5	768		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		58.9		19.5		78.4	



TABLE 6
SUMMARY OF ANALYTICAL RESULTS
SOIL BASE CONFIRMATION SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			3,080		10								50								100	
BH - 51 @ 6-6.5'	6/6/2024	2.0 - 2.5	3,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22		<10.0		22	
BH - 51 @ 4-4.5'	6/23/2024	4.0 - 4.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 52 @ 2-2.5	6/11/2024	2.0 - 2.5	672		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 53 @ 2-2.5	6/11/2024	2.0 - 2.5	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 54 @ 4-4.5'	6/23/2024	4.0 - 4.5	1,580		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 55 @ 2-2.5'	6/6/2024	2.0 - 2.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 56 @ 3-3.5	6/18/2024	8.0 - 8.5	3,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 57 @ 6-6.5'	6/6/2024	6.0 - 6.5	4,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 57 @ 3-3.5	6/18/2024	8.0 - 8.5	3,520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 57 @ 10-10.5'	6/24/2024	10.0 - 10.5	2,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.7		<10.0		10.7	
BH - 58 @ 2-2.5'	6/7/2024	2.0 - 2.5	3,760		<0.050		<0.050		<0.050		0.275		<0.300		16.9		1240		362		1,619	
BH - 58 @ 3-3.5	6/18/2024	3.0 - 3.5	3,160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 58 @ 4-4.5'	6/25/2024	4.0 - 4.5	1,900		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 59 @ 2-2.5	6/11/2024	2.0 - 2.5	2,290		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 60 @ 2-2.5	6/11/2024	2.0 - 2.5	1,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 61 @ 2-2.5	6/11/2024	2.0 - 2.5	1,540		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 62 @ 0-2'	6/20/2024	2.0 - 2.5	3,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		24.6		<10.0		24.6	
BH - 62 @ 4-4.5'	7/1/2024	4.0 - 4.5	3,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 62 @ 6-6.5'	7/3/2024	6.0 - 6.5	832		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		21.4		<10.0		21.4	
BH - 63 @ 2-2.5	6/11/2024	2.0 - 2.5	944		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 64 @ 2-2.5	6/11/2024	2.0 - 2.5	960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 65 @ 2-2.5	6/11/2024	2.0 - 2.5	1,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		13.9		<10.0		13.9	
BH - 66 @ 2-2.5	6/11/2024	2.0 - 2.5	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		118		69.9		188	
BH - 66 @ 4-4.5'	6/26/2024	4.0 - 4.5	1,620		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		66.1		20.4		86.5	
BH - 67 @ 3-3.5	6/18/2024	2.0 - 2.5	2,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 68 @ 6-6.5'	6/7/2024	2.0 - 2.5	3,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		133		25.3		158.3	
BH - 68 @ 3-3.5	6/18/2024	3.0 - 3.5	2,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 69 @ 6-6.5'	6/7/2024	2.0 - 2.5	2,400		<0.050		<0.050		<0.050		0.265		<0.300		12.7		623		147		782.7	
BH - 69 @ 3-3.5	6/18/2024	3.0 - 3.5	2,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 70 @ 2-2.5'	6/7/2024	2.0 - 2.5	3,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		40.2		<10.0		40.2	
BH - 70 @ 3-3.5	6/18/2024	3.0 - 3.5	2,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		140		42.7		182.7	
BH - 70 @ 4-4.5'	6/25/2024	4.0 - 4.5	1,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 71 @ 2-2.5	6/11/2024	2.0 - 2.5	2,520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 72 @ 2-2.5	6/11/2024	2.0 - 2.5	2,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		27.2		<10.0		27.2	
BH - 73 @ 2-2.5	6/11/2024	2.0 - 2.5	992		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 74 @ 2-2.5	6/11/2024	2.0 - 2.5	2,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 75 @ 2-2.5	6/11/2024	2.0 - 2.5	1,180		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	



TABLE 6
SUMMARY OF ANALYTICAL RESULTS
SOIL BASE CONFIRMATION SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	Q	> C ₁₀ - C ₂₈	Q	> C ₂₈ - C ₃₆	Q		mg/kg
Reclamation Requirements (19.15.29 NMAC)			3,080		10								50								100	
BH - 76 @ 4-4.5'	6/23/2024	4.0 - 4.5	992		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 77 @ 2-2.5	6/11/2024	2.0 - 2.5	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 78 @ 2-2.5	6/11/2024	2.0 - 2.5	1,570		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 79 @ 0-2'	6/20/2024	2.0 - 2.5	976		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		462		233		695	
BH - 79 @ 4-4.5'	6/26/2024	4.0 - 4.5	1,730		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		58.4		<10.0		58.4	
BH - 80 @ 2-2.5'	6/7/2024	2.0 - 2.5	20,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		145		15.7		161	
BH - 80 @ 3-3.5	6/18/2024	3.0 - 3.5	3,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		110		30.3		140	
BH - 80 @ 10-10.5'	6/26/2024	10.0 - 10.5	656		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 81 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		64.4		11.8		76.2	
BH - 81 @ 3-3.5	6/18/2024	3.0 - 3.5	3,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		36.2		<10.0		36.2	
BH - 81 @ 10-10.5'	6/26/2024	10.0 - 10.5	2,340		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 82 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		57.9		<10.0		57.9	
BH - 83 @ 2-2.5'	6/7/2024	2.0 - 2.5	4,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		794		272		1,066	
BH - 83 @ 3-3.5	6/18/2024	3.0 - 3.5	2,160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		21.1		<10.0		21	
BH - 84 @ 2-2.5	6/12/2024	2.0 - 2.5	2,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11.5		<10.0		11.5	
BH - 85 @ 2-2.5	6/12/2024	2.0 - 2.5	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 86 @ 2-2.5	6/12/2024	2.0 - 2.5	1,180		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 87 @ 2-2.5	6/12/2024	2.0 - 2.5	3,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		252		51.1		303.1	
BH - 87 @ 4-4.5'	6/23/2024	4.0 - 4.5	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 88 @ 2-2.5	6/12/2024	2.0 - 2.5	1,140		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 89 @ 2-2.5	6/12/2024	2.0 - 2.5	192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 90 @ 6-6.5'	6/26/2024	6.0 - 6.5	1,710		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 91 @ 2-2.5	6/12/2024	2.0 - 2.5	2,450		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 92 @ 2-2.5'	6/7/2024	2.0 - 2.5	6,400		<0.050		<0.050		0.671		5.21		5.89		740		6790		1260		8,790	
BH - 92 @ 3-3.5	6/18/2024	2.0 - 2.5	368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		320		194		514	
BH - 92 @ 10-10.5'	6/26/2024	10.0 - 10.5	1,970		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 93 @ 2-2.5'	6/7/2024	2.0 - 2.5	4,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		78.3		21.9		100.2	
BH - 93 @ 10-10.5'	6/26/2024	10.0 - 10.5	912		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 94 @ 2-2.5'	6/7/2024	2.0 - 2.5	3,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		340		74		414	
BH - 94 @ 3-3.5	6/18/2024	3.0 - 3.5	1,020		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		72.5		17.7		90.2	
BH - 95 @ 2-2.5'	6/7/2024	2.0 - 2.5	4,160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		261		87		348	
BH - 95 @ 3-3.5	6/18/2024	3.0 - 3.5	5,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		118		35.9		153.9	
BH - 95 @ 4-4.5'	6/25/2024	4.0 - 4.5	1,700		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 96 @ 2-2.5	6/12/2024	2.0 - 2.5	5,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		967		241		1,208	
BH - 96 @ 4-4.5'	6/23/2024	4.0 - 4.5	2,350		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 97 @ 2-2.5	6/12/2024	2.0 - 2.5	2,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		286		83.3		369.3	
BH - 97 @ 4-4.5'	6/23/2024	4.0 - 4.5	1,470		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	



TABLE 6
SUMMARY OF ANALYTICAL RESULTS
SOIL BASE CONFIRMATION SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
Reclamation Requirements (19.15.29 NMAC)			3,080		10								50								100	
BH - 98 @ 4-4.5'	6/23/2024	4.0 - 4.5	1,090		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		13		<10.0		13	
BH - 99 @ 2-2.5	6/12/2024	2.0 - 2.5	1,650		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 100 @ 2-2.5	6/12/2024	2.0 - 2.5	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 101 @ 2-2.5	6/12/2024	2.0 - 2.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 102 @ 2-2.5	6/12/2024	2.0 - 2.5	112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 103 @ 2-2.5	6/12/2024	2.0 - 2.5	864		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 104 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,370		<0.050		<0.050		<0.050		0.245		<0.300		<10.0		641		130		771	
BH - 104 @ 3-3.5	6/18/2024	3.0 - 3.5	2,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		538		133		671	
BH - 104 @ 10-10.5'	6/26/2024	10.0 - 10.5	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 105 @ 2-2.5'	6/7/2024	2.0 - 2.5	848		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		31.4		<10.0		31.4	
BH - 106 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		247		51.6		298.6	
BH - 106 @ 3-3.5	6/18/2024	3.0 - 3.5	1,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		28.3		12.8		41.1	
BH - 107 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		92.4		16.2		108.6	
BH - 107 @ 3-3.5	6/18/2024	3.0 - 3.5	3,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		134		49		183	
BH - 107 @ 4-4.5'	6/25/2024	4.0 - 4.5	1,550		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 108 @ 2-2.5	6/12/2024	2.0 - 2.5	3,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		342		101		443	
BH - 108 @ 4-4.5'	6/23/2024	4.0 - 4.5	1,170		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 109 @ 2-2.5	6/12/2024	2.0 - 2.5	4,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		117		26.8		143.8	
BH - 109 @ 4-4.5'	6/23/2024	4.0 - 4.5	1,300		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 110 @ 6-6.5'	6/26/2024	6.0 - 6.5	2,110		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 111 @ 2-2.5	6/12/2024	2.0 - 2.5	1,810		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 112 @ 2-2.5	6/12/2024	2.0 - 2.5	5,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 112 @ 4-4.5'	6/23/2024	4.0 - 4.5	1,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 113 @ 2-2.5	6/12/2024	2.0 - 2.5	4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 113 @ 4-4.5'	6/23/2024	4.0 - 4.5	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 114 @ 2-2.5'	6/7/2024	2.0 - 2.5	6,400		<0.050		<0.050		0.376		2.43		2.81		187		8840		1750		10,777	
BH - 114 @ 10-10.5'	6/24/2024	10.0 - 10.5	1,180		<0.200		3.73		1.83		64.4		69.9		2070		6670		806		9,546	
BH - 115 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		798		190		988	
BH - 115 @ 10-10.5'	6/24/2024	10.0 - 10.5	1,140		<0.100		1.08		0.836		20.7		22.6		707		2730		340		3,777	
BH - 116 @ 2-2.5'	6/7/2024	2.0 - 2.5	3,060		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 117 @ 2-2.5'	6/7/2024	2.0 - 2.5	3,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		489		127		616	
BH - 117 @ 3-3.5	6/18/2024	2.0 - 2.5	960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 118 @ 2-2.5	6/12/2024	2.0 - 2.5	5,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		508		163		671	
BH - 118 @ 4-4.5'	6/23/2024	4.0 - 4.5	1,580		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 119 @ 2-2.5	6/12/2024	2.0 - 2.5	7,060		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		250		73.2		323.2	
BH - 119 @ 4-4.5'	6/23/2024	4.0 - 4.5	1,710		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	



TABLE 6
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SOIL BASE CONFIRMATION SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			3,080		10								50								100	
BH - 120 @ 2-2.5	6/12/2024	2.0 - 2.5	3,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	96.6	20.6			117.2		
BH - 120 @ 6-6.5'	6/26/2024	6.0 - 6.5	2,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 121 @ 2-2.5	6/12/2024	2.0 - 2.5	4,720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 121 @ 4-4.5'	7/19/2024	1.0 - 4.5	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	60.4	19.6			80		
BH - 122 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,560		<0.050		<0.050		<0.050		0.251		<0.300		38.1	1570	197			1,805		
BH - 122 @ 3-3.5	6/18/2024	2.0 - 2.5	1,340		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	1220	229			1,449		
BH - 122 @ 4-4.5'	7/19/2024	4.0 - 4.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	66.4	22			88.4		
BH - 123 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 124 @ 2-2.5'	6/7/2024	2.0 - 2.5	672		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	27.8	<10.0			27.8		
BH - 125 @ 0-2'	6/20/2024	2.0 - 2.5	4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	30	<10.0			30		
BH - 125 @ 4-4.5'	6/26/2024	4.0 - 4.5	2,100		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 126 @ 0-2'	6/20/2024	2.0 - 2.5	1,250		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 127 @ 2-2.5	6/12/2024	2.0 - 2.5	4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 127 @ 4-4.5'	6/23/2024	4.0 - 4.5	2,690		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 128 @ 2-2.5'	6/7/2024	2.0 - 2.5	1,580		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	18.1	<10.0			18.1		
BH - 129 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 130 @ 2-2.5'	6/7/2024	2.0 - 2.5	3,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	74.6	<10.0			74.6		
BH - 131 @ 2-2.5'	6/7/2024	2.0 - 2.5	1,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 132 @ 0-2'	6/20/2024	2.0 - 2.5	2,370		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	136	54.1			190.1		
BH - 132 @ 4-4.5'	6/26/2024	4.0 - 4.5	1,970		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 133 @ 0-2'	6/20/2024	2.0 - 2.5	3,640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	53	11.6			64.6		
BH - 133 @ 6-6.5'	7/11/2024	6.0 - 6.5	6,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 134 @ 0-2'	6/20/2024	2.0 - 2.5	3,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	35.7	<10.0			35.7		
BH - 134 @ 6-6.5'	7/11/2024	6.0 - 6.5	5,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 135 @ 2-2.5'	6/7/2024	2.0 - 2.5	1,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 136 @ 3-3.5'	6/26/2024	3.0 - 3.5	3,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 136 @ 4-4.5'	7/1/2024	4.0 - 4.5	2,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	59.1	12.4			71.5		
BH - 137 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 138 @ 2-2.5'	6/7/2024	2.0 - 2.5	3,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 138 @ 4-4.5'	6/26/2024	4.0 - 4.5	2,100		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 139 @ 0-2'	6/20/2024	2.0 - 2.5	3,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	25.4	<10.0			25.4		
BH - 139 @ 6-6.5'	7/11/2024	6.0 - 6.5	6,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 140 @ 0-2'	6/20/2024	2.0 - 2.5	4,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	59.9	13.1			73		
BH - 140 @ 6-6.5'	7/11/2024	6.0 - 6.5	7,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 141 @ 6-6.5'	7/11/2024	6.0 - 6.5	6,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		
BH - 142 @ 0-2'	6/20/2024	2.0 - 2.5	3,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	166	78.9			245		
BH - 142 @ 6-6.5'	7/11/2024	6.0 - 6.5	7,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0			-		



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BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			3,080		10							50									100	
BH - 143 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 144 @ 2-2.5'	6/7/2024	2.0 - 2.5	3,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 144 @ 3-3.5	6/18/2024	3.0 - 3.5	1,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 145 @ 2-2.5'	6/7/2024	2.0 - 2.5	3,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 145 @ 3-3.5	6/18/2024	3.0 - 3.5	2,920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 146 @ 0-2'	6/20/2024	2.0 - 2.5	2,160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		52.7		13.6		66.3	
BH - 147 @ 0-2'	6/20/2024	2.0 - 2.5	3,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		68.8		<10.0		68.8	
BH - 147 @ 6-6.5'	7/11/2024	6.0 - 6.5	5,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 148 @ 0-2'	6/20/2024	2.0 - 2.5	4,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		40.9		<10.0		40.9	
BH - 148 @ 6-6.5'	7/11/2024	6.0 - 6.5	6,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 149 @ 0-2'	6/20/2024	2.0 - 2.5	1,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 150 @ 6-6.5'	7/11/2024	6.0 - 6.5	6,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 151 @ 2-2.5	6/12/2024	2.0 - 2.5	3,920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		15		<10.0		15	
BH - 151 @ 6-6.5'	7/11/2024	6.0 - 6.5	7,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 152 @ 0-2'	6/20/2024	2.0 - 2.5	4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		127		46.2		173.2	
BH - 152 @ 6-6.5'	7/11/2024	6.0 - 6.5	2,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 153 @ 0-2'	6/20/2024	2.0 - 2.5	3,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		124		45.7		169.7	
BH - 153 @ 6-6.5'	7/11/2024	6.0 - 6.5	9,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 154 @ 2-2.5'	6/7/2024	2.0 - 2.5	2,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 155 @ 2-2.5'	6/7/2024	2.0 - 2.5	6,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 155 @ 3-3.5	6/18/2024	3.0 - 3.5	4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 155 @ 4-4.5'	7/1/2024	4.0 - 4.5	4,000		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		196		56.7		252.7	
BH - 155 @ 6-6.5'	7/3/2024	6.0 - 6.5	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 156 @ 2-2.5'	6/7/2024	2.0 - 2.5	4,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 156 @ 2-2.5	6/12/2024	2.0 - 2.5	3,520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 156 @ 4-4.5'	7/1/2024	4.0 - 4.5	2,960		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		73		19.6		92	
BH - 157 @ 2-2.5'	6/7/2024	2.0 - 2.5	4,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 157 @ 4-4.5'	7/1/2024	4.0 - 4.5	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		161		47.1		208.1	
BH - 157 @ 6-6.5'	7/3/2024	6.0 - 6.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 158 @ 2-2.5'	6/7/2024	2.0 - 2.5	4,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 158 @ 4-4.5'	7/1/2024	4.0 - 4.5	2,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.7		<10.0		16.7	
BH - 159 @ 3-3.5	6/18/2024	3.0 - 3.5	1,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 159 @ 4-4.5'	7/1/2024	4.0 - 4.5	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		21.7		<10.0		21.7	
BH - 160 @ 6-6.5'	6/26/2024	6.0 - 6.5	1,010		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 161 @ 4-4.5'	6/23/2024	4.0 - 4.5	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 162 @ 2-2.5'	7/3/2024	2.0 - 2.5	672		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 163 @ 4-4.5'	7/3/2024	4.0 - 4.5	592		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	



TABLE 6
SUMMARY OF ANALYTICAL RESULTS
SOIL BASE CONFIRMATION SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆				mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		
feet bgs			mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			3,080		10								50								100	
BH - 164 @ 4-4.5'	7/3/2024	4.0 - 4.5	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 165 @ 4-4.5'	7/3/2024	4.0 - 4.5	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 166 @ 4-4.5'	7/3/2024	4.0 - 4.5	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 167 @ 4-4.5'	7/3/2024	4.0 - 4.5	208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH - 168 @ 4-4.5'	7/3/2024	4.0 - 4.5	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

bgs: Below ground surface
mg/kg: Milligrams per kilogram
TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
EXT DRO: Oil Range Organics

1: Method SM4500Cl-B
2: Method 8021B
3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC) or the established chloride background concentration.

Locations over excavated until clean margins achieved, where possible

Sample Interval impacted at top of phreatic zone

Sample Interval mislabeled on sample ID, lavender sample interval is the correct sample interval



TABLE 7
SUMMARY OF ANALYTICAL RESULTS
SOIL SIDEWALL CONFIRMATION SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			3,080		10								50								100	
SW - 1 @ 0-2'	6/7/2024	0.0 - 2.0	3,080		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		295		29.9		324.9	
SW - 1A @ 0-2'	6/25/2024	0.0 - 2.0	240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 2 @ 0-2'	6/12/2024	0.0 - 2.0	4,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		217		51.2		268.2	
SW - 2A @ 0-2'	6/25/2024	0.0 - 2.0	400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 3 @ 0-2'	6/12/2024	0.0 - 2.0	5,120		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 3A @ 0-2'	6/23/2024	0.0 - 2.0	1,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 4W @ 4-4.5'	6/23/2024	0.0 - 4.0	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 4E @ 0-3'	7/1/2024	0.0 - 4.0	4,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 4E @ 0-4'	7/3/2024	0.0 - 4.0	464		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		19.9		<10.0		19.9	
SW - 4F @ 0-2'	7/3/2024	0.0 - 2.0	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 5 @ 4-4.5'	6/23/2024	4.0 - 4.5	384		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		61.1		<10.0		61.1	
SW - 6 @ 0-2'	6/12/2024	0.0 - 2.0	1,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		135		53.7		188.7	
SW - 6A @ 0-2'	6/23/2024	0.0 - 2.0	2,530		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		712		200		912	
SW - 6B @ 0-3'	7/1/2024	0.0 - 3.0	3,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 6C @ 0-3'	7/1/2024	0.0 - 3.0	1,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		28.5		<10.0		28.5	
SW - 6D @ 0-3'	7/1/2024	0.0 - 3.0	3,160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 6D @ 0-2'	7/3/2024	0.0 - 2.0	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		13.7		<10.0		13.7	
SW - 6E @ 0-2'	7/3/2024	0.0 - 2.0	656		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 7 @ 0-3'	7/1/2024	0.0 - 3.0	1,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		58.6		<10.0		58.6	
SW - 8 @ 0-2'	6/12/2024	0.0 - 2.0	656		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		322		256		578	
SW - 8A @ 4-4.5'	6/23/2024	0.0 - 4.0	832		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 9 @ 4-6'	6/12/2024	0.0 - 4.0	2,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		15		<10.0		15	
SW - 10 @ 4-6'	6/12/2024	0.0 - 2.0	2,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		771		387		1,158	
SW - 10A @ 4-4.5'	6/23/2024	0.0 - 4.0	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		58.6		15.3		73.9	
SW - 11 @ 4-6'	6/12/2024	0.0 - 6.0	1,340		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 12 @ 4-6'	6/12/2024	0.0 - 2.0	6,240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 12A @ 0-4'	6/26/2024	0.0 - 2.0	1,790		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		70.4		22.2		92.6	
SW - 13 @ 0-2'	6/12/2024	0.0 - 2.0	912		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 14 @ 0-2'	6/12/2024	0.0 - 2.0	1,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 15 @ 0-2'	6/12/2024	0.0 - 2.0	5,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 15A @ 0-6'	6/26/2024	0.0 - 6.0	1,490		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 16 @ 0-2'	6/12/2024	0.0 - 2.0	992		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 16A @ 0-6'	6/26/2024	0.0 - 6.0	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 16A @ 0-6'	7/3/2024	0.0 - 6.0	576		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 17 @ 0-2'	6/12/2024	0.0 - 6.0	1,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		53.5		13.5		67	
SW - 18 @ 0-2'	6/12/2024	0.0 - 2.0	2,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 19 @ 0-2'	6/12/2024	0.0 - 2.0	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		18.6		<10.0		18.6	



TABLE 7
SUMMARY OF ANALYTICAL RESULTS
SOIL SIDEWALL CONFIRMATION SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			3,080		10								50								100	
SW - 20 @ 0-2'	6/12/2024	0.0 - 2.0	2,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		45.4		<10.0		45.4	
SW - 21 @ 4-4.5'	6/23/2024	0.0 - 4.0	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 22 @ 0-2'	6/12/2024	0.0 - 2.0	1,100		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 23 @ 0-2'	6/12/2024	0.0 - 2.0	3,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11.6		<10.0		11.6	
SW - 23A @ 0-6'	7/11/2024	0.0 - 6.0	784		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 24 @ 0-2'	6/12/2024	0.0 - 2.0	3,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 24A @ 0-6'	7/11/2024	0.0 - 6.0	528		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 25 @ 0-2'	6/12/2024	0.0 - 2.0	4,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		751		94.5		845.5	
SW - 25A @ 0-6'	7/11/2024	0.0 - 6.0	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 26 @ 0-2'	6/12/2024	0.0 - 2.0	3,680		<0.050		<0.050		<0.050		0.341		0.341		32.9		1720		221		1973.9	
SW - 26A @ 0-6'	7/11/2024	0.0 - 6.0	640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 27 @ 0-2'	6/12/2024	0.0 - 2.0	5,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 27A @ 0-6'	7/11/2024	0.0 - 6.0	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 28 @ 0-2'	6/12/2024	0.0 - 2.0	350		<0.050		<0.050		<0.050		<0.150		<0.300		<50.0		<50.0		<50.0		-	
SW - 29 @ 0-2'	6/12/2024	0.0 - 2.0	4,160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		41.1		<10.0		41.1	
SW - 29A @ 0-6'	7/11/2024	0.0 - 6.0	496		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 30 @ 0-2'	6/12/2024	0.0 - 2.0	3,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		17		<10.0		17	
SW - 30A @ 0-6'	7/11/2024	0.0 - 6.0	656		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 31 @ 0-6'	7/11/2024	0.0 - 6.0	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 32 @ 0-2'	6/12/2024	0.0 - 2.0	4,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 32A @ 0-6'	7/11/2024	0.0 - 6.0	672		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 33A @ 0-4'	7/1/2024	0.0 - 3.0	3,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 33A @ 0-3'	7/3/2024	0.0 - 3.0	1,070		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		32		<10.0		32	
SW - 33B @ 0-3'	7/3/2024	0.0 - 3.0	560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 34 @ 0-2'	6/6/2024	0.0 - 2.0	7,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 34A @ 0-3'	7/3/2024	0.0 - 3.0	480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		17.8		<10.0		17.8	
SW - 34B @ 0-3'	7/3/2024	0.0 - 3.0	624		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 35 @ 0-2'	6/6/2024	0.0 - 2.0	7,840		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 35A @ 0-4'	7/1/2024	0.0 - 4.0	3,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		101		30.5		131.5	
SW - 35A @ 0-4'	7/3/2024	0.0 - 4.0	336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		14.1		<10.0		14.1	
SW - 35B @ 0-4'	7/3/2024	0.0 - 4.0	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		59.9		<10.0		59.9	
SW - 36 @ 0-2'	6/6/2024	0.0 - 2.0	2,760		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 37 @ 0-3'	6/26/2024	0.0 - 3.0	2,200		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 38 @ 0-2'	6/6/2024	0.0 - 2.0	704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 39 @ 0-6'	6/25/2024	0.0 - 6.0	432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 40 @ 0-3'	6/25/2024	0.0 - 3.0	544		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		36.5		19.8		56.3	
SW - 41 @ 0-2'	6/6/2024	0.0 - 2.0	752		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		23.4		<10.0		23.4	



TABLE 7
SUMMARY OF ANALYTICAL RESULTS
SOIL SIDEWALL CONFIRMATION SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	C ₆ - C ₁₀	Q	> C ₁₀ - C ₂₈	Q	> C ₂₈ - C ₃₆	Q	(GRO+DRO+EXT DRO)	
Reclamation Requirements (19.15.29 NMAC)			3,080		10								50							100		
SW - 42 @ 0-2'	6/6/2024	0.0 - 2.0	1,880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 43 @ 2-6'	6/7/2024	2.0 - 6.0	4,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 43A @ 0-6'	6/25/2024	2.0 - 6.0	2,680		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 44N @ 0-6'	6/25/2024	2.0 - 6.0	1,800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 44S @ 0-8'	6/25/2024	2.0 - 8.0	1,600		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 45 @ 2-6'	6/7/2024	2.0 - 6.0	2,040		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		75		19.2		94.2	
SW - 46 @ 2-6'	6/7/2024	2.0 - 6.0	1,100		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 47 @ 0-6'	6/25/2024	2.0 - 6.0	2,440		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		757		343		1,100	
SW - 47 @ 0-6'	6/27/2024	0.0 - 6.0	720		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 48 @ 0-6'	6/26/2024	0.0 - 6.0	800		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 49 @ 0-4'	7/3/2024	0.0 - 6.0	832		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		20		<10.0		20	
SW - 50 @ 0-4'	7/19/2024	0.0 - 4.0	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		56		16		72	

NOTES:

bgs: Below ground surface

GRO: Gasoline Range Organics

1: Method SM4500Cl-B

mg/kg: Milligrams per kilogram

DRO: Diesel Range Organics

2: Method 8021B

TPH: Total Petroleum Hydrocarbons

EXT DRO: Oil Range Organics

3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC) or the established chloride background concentration.

Over excavated and resampled until clean margins achieved

Sample depth mislabeled on sample ID, lavender depth is the accurate sample interval



TABLE 8
SUMMARY OF ANALYTICAL RESULTS
REMAINING BASE CONFIRMATION SAMPLE IMPACTS - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆		(GRO+DRO+EXT DRO)	
			feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		
Reclamation Requirements (19.15.29 NMAC)				3,080				10						50						100		
BH - 45 @ 6-6.5'	6/6/2024	6.0 - 6.5		3,520				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	112	19	131	
BH - 45 @ 10-10.5'	6/24/2024	10 - 10.5		6,720				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	
BH - 114 @ 2-2.5'	6/7/2024	2.0 - 2.5		6,400				<0.050		<0.050		0.376		2.43		2.81		187	8840	1750	10,777	
BH - 114 @ 10-10.5'	6/24/2024	10.0 - 10.5		1,180				<0.200		3.73		1.83		64.4		69.9		2070	6670	806	9,546	
BH - 115 @ 2-2.5'	6/7/2024	2.0 - 2.5		2,120				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	798	190	988	
BH - 115 @ 10-10.5'	6/24/2024	10.0 - 10.5		1,140				<0.100		1.08		0.836		20.7		22.6		707	2730	340	3,777	
BH - 133 @ 0-2'	6/20/2024	2.0 - 2.5		3,640				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	53	11.6	64.6	
BH - 133 @ 6-6.5'	7/11/2024	6.0 - 6.5		6,240				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	
BH - 134 @ 0-2'	6/20/2024	2.0 - 2.5		3,680				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	35.7	<10.0	35.7	
BH - 134 @ 6-6.5'	7/11/2024	6.0 - 6.5		5,040				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	
BH - 139 @ 0-2'	6/20/2024	2.0 - 2.5		3,200				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	25.4	<10.0	25.4	
BH - 139 @ 6-6.5'	7/11/2024	6.0 - 6.5		6,000				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	
BH - 140 @ 0-2'	6/20/2024	2.0 - 2.5		4,280				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	59.9	13.1	73	
BH - 140 @ 6-6.5'	7/11/2024	6.0 - 6.5		7,600				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	
BH - 141 @ 6-6.5'	7/11/2024	6.0 - 6.5		6,320				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	
BH - 142 @ 0-2'	6/20/2024	2.0 - 2.5		3,880				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	166	78.9	245	
BH - 142 @ 6-6.5'	7/11/2024	6.0 - 6.5		7,680				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	
BH - 147 @ 0-2'	6/20/2024	2.0 - 2.5		3,360				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	68.8	<10.0	68.8	
BH - 147 @ 6-6.5'	7/11/2024	6.0 - 6.5		5,360				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	
BH - 148 @ 0-2'	6/20/2024	2.0 - 2.5		4,080				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	40.9	<10.0	40.9	
BH - 148 @ 6-6.5'	7/11/2024	6.0 - 6.5		6,000				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	
BH - 150 @ 6-6.5'	7/11/2024	6.0 - 6.5		6,800				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	
BH - 151 @ 2-2.5'	6/12/2024	2.0 - 2.5		3,920				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	15	<10.0	15	
BH - 151 @ 6-6.5'	7/11/2024	6.0 - 6.5		7,040				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	
BH - 153 @ 0-2'	6/20/2024	2.0 - 2.5		3,800				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	124	45.7	169.7	
BH - 153 @ 6-6.5'	7/11/2024	6.0 - 6.5		9,000				<0.050		<0.050		<0.050		<0.150		<0.300		<10.0	<10.0	<10.0	-	

NOTES:

bgs: Below ground surface
 mg/kg: Milligrams per kilogram
 TPH: Total Petroleum Hydrocarbons

GRO: Gasoline Range Organics
 DRO: Diesel Range Organics
 EXT DRO: Oil Range Organics

1: Method SM4500Cl-B
 2: Method 8021B
 3: Method 8015M

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC) or the established chloride background concentration.

Locations over excavated until clean margins achieved, where possible

Sample Interval impacted at top of phreatic zone

Sample Interval mislabeled on sample ID, lavender sample interval is the correct sample interval



TABLE 9
SUMMARY OF ANALYTICAL RESULTS
GROUNDWATER ASSESSMENT SAMPLING - INCIDENT NAPP241172478
BTA OIL PRODUCERS, LLC
HARROUN RANCH WEST BATTERY FIRE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
												C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆						
		feet bgs	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	
NMWQCC Groundwater Quality Standards			250		0.005		1		0.7		0.62											
BH - 45 - GW	6/26/2024	10.5	35,700		<0.001		<0.001		<0.001		<0.003		<0.006		<1.00		<1.00		<1.00		-	
BH - 114 - GW	6/26/2024	10.5	24,400		0.014		0.006		0.006		0.246		0.272		4.29		34		3.15		41.44	
BH - 151 - GW	7/11/2024	7.0	36,700		<0.001		<0.001		<0.001		<0.003		<0.006		<1.00		<1.00		<1.00		-	

NOTES:

bgs: Below ground surface

GRO: Gasoline Range Organics

mg/kg: Milligrams per kilogram

DRO: Diesel Range Organics

TPH: Total Petroleum Hydrocarbons

EXT DRO: Oil Range Organics

1: Method SM4500Cl-B

2: Method 8021B

3: Method 8015M

NMWQCC Groundwater Quality Standard Exceedance of 19.15.30 NMAC & 20.6.2.3103 NMAC

Remediation Report
BTA Oil Producers, LLC
Harroun Ranch West Fire
Incident ID# nAPP2411724780

August 19, 2024

ATTACHMENT 1 – SITE CHARACTERIZATION DATA



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02613	CUB	ED		4	4	2	20	23S	29E	594203	3573176*	895	400		
C 03587 POD2	CUB	ED		1	2	4	19	23S	29E	592213	3572706	1350	77	16	61
C 02721	CUB	ED			2	3	21	23S	29E	594915	3572879*	1397	150		
C 03057 EXPLORE	CUB	ED		4	1	1	21	23S	29E	594605	3573586*	1469	150		
C 02720	CUB	ED			2	1	21	23S	29E	594911	3573690*	1766	150		
C 03587 POD1	CUB	ED		1	4	3	29	23S	29E	593338	3570754	1815	99	44	55
C 02608	CUB	ED		3	1	4	17	23S	29E	593598	3574387*	1829	400		
C 03059 EXPLORE	CUB	ED		4	1	3	17	23S	29E	592993	3574378*	1905		65	
C 02182	C	ED			4	30	23S	29E	592328	3571048*	1945	75	30	45	

Average Depth to Water: **38 feet**

Minimum Depth: **16 feet**

Maximum Depth: **65 feet**

Record Count: 9

UTM NAD83 Radius Search (in meters):

Easting (X): 593555

Northing (Y): 3572557.6

Radius: 2000

*UTM location was derived from PLSS - see Help

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

5/8/24 9:03 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

National Flood Hazard Layer FIRMette



104°0'42"W 32°17'24"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°0'5"W 32°16'54"N

Released to Imaging: 10/11/2024 3:39:45 PM

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/8/2024 at 11:38 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Map Unit Description: Upton soils, 0 to 1 percent slopes---Eddy Area, New Mexico

Harroun Ranch West Battery
Flowline

Eddy Area, New Mexico

Up—Upton soils, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w68*Elevation:* 1,100 to 4,400 feet*Mean annual precipitation:* 7 to 14 inches*Mean annual air temperature:* 60 to 70 degrees F*Frost-free period:* 200 to 240 days*Farmland classification:* Not prime farmland

Map Unit Composition

Upton and similar soils: 98 percent*Minor components:* 2 percent*Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Upton

Setting

Landform: Ridges, fans*Landform position (three-dimensional):* Side slope, rise*Down-slope shape:* Convex*Across-slope shape:* Convex*Parent material:* Residuum weathered from limestone

Typical profile

H1 - 0 to 8 inches: gravelly loam*H2 - 8 to 18 inches:* gravelly loam*H3 - 18 to 40 inches:* cemented*H4 - 40 to 60 inches:* very gravelly loam

Properties and qualities

Slope: 0 to 1 percent*Depth to restrictive feature:* 7 to 20 inches to petrocalcic*Drainage class:* Well drained*Runoff class:* High*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.60 in/hr)*Depth to water table:* More than 80 inches*Frequency of flooding:* None*Frequency of ponding:* None*Calcium carbonate, maximum content:* 75 percent*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)*Sodium adsorption ratio, maximum:* 1.0*Available water supply, 0 to 60 inches:* Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): 4s*Land capability classification (nonirrigated):* 7s

Map Unit Description: Upton soils, 0 to 1 percent slopes---Eddy Area, New Mexico

Harroun Ranch West Battery
Flowline

Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Atoka

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

Soil Map—Eddy Area, New Mexico
(Harroun Ranch West)Natural Resources
Conservation ServiceWeb Soil Survey
National Cooperative Soil Survey5/8/2024
Page 1 of 3

Soil Map—Eddy Area, New Mexico
(Harroun Ranch West)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
An	Arno silty clay loam, 0 to 1 percent slopes	0.0	0.1%
SM	Simona-Bippus complex, 0 to 5 percent slopes	13.3	56.5%
Up	Upton soils, 0 to 1 percent slopes	10.2	43.4%
Totals for Area of Interest		23.6	100.0%

Remediation Report
BTA Oil Producers, LLC
Harroun Ranch West Fire
Incident ID# nAPP2411724780

August 19, 2024

ATTACHMENT 2 – LABORATORY ANALYTICAL DATA



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 03, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 05/02/24 16:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 1 4-6' (H242389-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	1.16	
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.944	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.05	103	2.00	0.930	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.95	99.2	6.00	0.677	
Total BTX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/03/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 2 2-4' (H242389-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	1.16		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.944		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.05	103	2.00	0.930		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.95	99.2	6.00	0.677		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	05/03/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 3 2-4' (H242389-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	1.16		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.944		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.05	103	2.00	0.930		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.95	99.2	6.00	0.677		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6560	16.0	05/03/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 4 4-6' (H242389-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	1.16		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.944		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.05	103	2.00	0.930		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.95	99.2	6.00	0.677		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2360	16.0	05/03/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 5 2-4' (H242389-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.03	101	2.00	1.16		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.944		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.05	103	2.00	0.930		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.95	99.2	6.00	0.677		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	05/03/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 6 2-4' (H242389-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.03	101	2.00	1.16		
Toluene*	<0.050	0.050	05/03/2024	ND	2.04	102	2.00	0.944		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.05	103	2.00	0.930		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	5.95	99.2	6.00	0.677		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/03/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 7 2-4' (H242389-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	05/03/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 8 2-4' (H242389-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	05/03/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	213	106	200	8.10	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	199	99.3	200	6.45	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 9 2-4' (H242389-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<100	100	05/03/2024	ND	213	106	200	8.10		
DRO >C10-C28*	2520	100	05/03/2024	ND	199	99.3	200	6.45		
EXT DRO >C28-C36	955	100	05/03/2024	ND						

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 10 2-4' (H242389-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12		
Total BTEx	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: H 1 0-6" (H242389-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: H 2 0-6" (H242389-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/02/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/02/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: H 3 0-6" (H242389-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: H 4 0-6" (H242389-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: H 5 0-6" (H242389-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: H 6 0-6" (H242389-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: H 7 0-6" (H242389-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: H 8 0-6" (H242389-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/02/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: H 9 0-6" (H242389-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	141	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: H 10 0-6" (H242389-20)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: H 11 0-6" (H242389-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 11 4-6' (H242389-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12		
Total BTEx	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 12 4-6' (H242389-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 13 4-6' (H242389-24)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30		
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11		
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48		
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12		
Total BTEX	<0.300	0.300	05/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 14 4-6' (H242389-25)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEx	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 15 4-6' (H242389-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/03/2024	ND	2.14	107	2.00	2.30	
Toluene*	<0.050	0.050	05/03/2024	ND	2.19	110	2.00	2.11	
Ethylbenzene*	<0.050	0.050	05/03/2024	ND	2.17	109	2.00	2.48	
Total Xylenes*	<0.150	0.150	05/03/2024	ND	6.57	109	6.00	2.12	
Total BTEX	<0.300	0.300	05/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: PH 16 2-4' (H242389-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/02/2024	ND	2.09	104	2.00	2.01		
Toluene*	<0.050	0.050	05/02/2024	ND	2.04	102	2.00	0.946		
Ethylbenzene*	<0.050	0.050	05/02/2024	ND	2.00	99.9	2.00	0.738		
Total Xylenes*	<0.150	0.150	05/02/2024	ND	5.87	97.8	6.00	0.581		
Total BTEX	<0.300	0.300	05/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	05/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/03/2024	ND	204	102	200	1.44	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	200	99.8	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Lab I.D. | Sample I.D.

14242389

(G)RAB OR (C)OMP
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

DATE	TIME
------	------

Chlorides

BTEX 8021

TPH 8015.

[illegible]

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anyways. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By:

Date: 02/07/2014

Received By:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address.

Refringished By:

Date:

Received By:

REMARKS:

Delivered By: (Circle One)

Observed Temp. °C 74

Sample Condition

CHECKED BY _____

Turnaround Time:

Standard

☐

Bacteria (only

Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp. °C

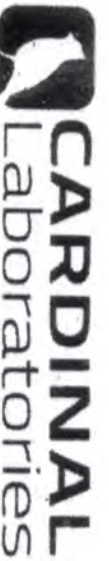
☒ Yes ☒ Yes

9

Thermometer ID #1140

think

☐ Yes ☐ Yes† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

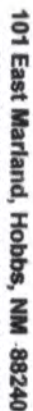


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BTA O/I Producers		BILL TO		ANALYSIS REQUEST	
Project Manager: Ray Ramos		P.O. #:			
Address: 104 S Reas St		Company: BTA			
City: Midland		Attn:			
State: TX Zip: 79701		Address:			
Phone #: (432) 313-1288 Fax #:		City:			
Project #: Incident 198 Project Owner: Ray Ramos		State:			
Project Name: Phram West Barrier - Fire		Zip:			
Project Location: Loving, NM		Phone #:			
Sampler Name: Ray Ramos		Fax #:			
<small>FOR LAB USE ONLY</small>					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV
				GROUNDWATER	SAMPLING
				WASTEWATER	
				SOIL	
				OIL	
				SLUDGE	
				OTHER :	
				ACID/BASE:	
				ICE / COOL	
				OTHER :	
				DATE	TIME
H243389	H1 0-6"	X		5/2	7:00
	H2 0-6"	X		5/2	7:06
	H3 0-6"	X		5/2	7:13
	H4 0-6"	X		5/2	7:17
	H5 0-6"	X		5/2	7:25
	H6 0-6"	X		5/2	7:35
	H7 0-6"	X		5/2	7:39
	H8 0-6"	X		5/2	7:42
	H9 0-6"	X		5/2	8:00
	H10 0-6"	X		5/2	8:08
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Relinquished By: [Signature]		Date: 5-2-24		Received By: [Signature]	
Relinquished By: [Signature]		Date: 5-2-24		Received By: [Signature]	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
FORM-000 R-34 07/11/23		CHECKED BY: [Signature]		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
				Thermometer ID #140 <input checked="" type="checkbox"/> Bacteria (only) Sample Condition	
				Correction Factor 0°C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C	
				Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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

Page 32 of 32



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 16, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 05/15/24 8:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
RAY RAMOS
104 South Pecos
Midland TX, 79701
Fax To: (432) 683-0312

Received:	05/15/2024	Sampling Date:	05/15/2024
Reported:	05/16/2024	Sampling Type:	Water
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: PLAYA WATER SAMPLE # 1 (H242656-01)

Chloride, SM4500Cl-B (Water)		mg/L	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	232000	4.00	05/15/2024	ND	104	104	100	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO				ANALYSIS REQUEST			
Company Name: BTB O.I. Producers				P.O. #:			
Project Manager: Kay Ramos				Company:	BTB		
Address: 104 S Peas St				Attn:			
City: Milled				State:			
Phone #: (432) 313-1288				Fax #:			
Project #: Incidant 148				Project Owner: Kay Ramos			
Project Name: Phuram West Barrier - Live				City:			
Project Location: Loving, NM				State:			
Sampler Name: Kay Ramos				Phone #:			
FOR LAB USE ONLY				Fax #:			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	DATE TIME	SAMPLING
H222222	Playa Water Sample #1		X		✓	5/15/24 0700	X Chlorides
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors. "Using P&H related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise."</p>							
Relinquished By: J.L.H.-	Date: 8:40 PM 5/15/24	Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:			
REMARKS:				All Results are emailed. Please provide Email address:			
Delivered By: (Circle One)	Observed Temp. °C 14.0	Sample Condition Cool Intact <input checked="" type="checkbox"/>		CHECKED BY: [Initials]	Turnaround Time:	Standard Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		[Signature]	Thermometer ID #140		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
					Correction Factor 0°C		Observed Temp. °C
							Corrected Temp. °C



Environment Testing

- 1
- 2
- 3
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- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Ray Ramos
BTA Oil Producers
104 S. Pecos
Midland, Texas 79701
Generated 5/23/2024 4:51:13 PM

JOB DESCRIPTION

Harroun West Fire - Incident 148
Loving NM

JOB NUMBER

880-43796-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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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
5/23/2024 4:51:13 PM

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

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Laboratory Job ID: 880-43796-1
SDG: Loving NM

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Definitions/Glossary

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1
SDG: Loving NM

Qualifiers

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
SQL	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: BTA Oil Producers
Project: Harroun West Fire - Incident 148

Job ID: 880-43796-1

Job ID: 880-43796-1

Eurofins Midland

Job Narrative 880-43796-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/22/2024 1:18 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 2.9°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH 16 @ 0-6" (880-43796-1), PH 16 @ 2-4' (880-43796-2), PH 16 @ 4-6' (880-43796-3) and H8 @ 0-6" (880-43796-4).

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH 16 @ 0-6" (880-43796-1), PH 16 @ 2-4' (880-43796-2) and PH 16 @ 4-6' (880-43796-3). 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

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

Eurofins Midland

Client Sample Results

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1
SDG: Loving NM

Client Sample ID: PH 16 @ 0-6"

Lab Sample ID: 880-43796-1

Date Collected: 05/21/24 13:00

Matrix: Solid

Date Received: 05/22/24 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/24 17:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 17:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 17:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 17:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				05/21/24 16:20	05/22/24 17:59	1
o-Terphenyl	144	S1+	70 - 130				05/21/24 16:20	05/22/24 17:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		5.05		mg/Kg			05/23/24 13:11	1

Client Sample ID: PH 16 @ 2-4'

Lab Sample ID: 880-43796-2

Date Collected: 05/21/24 13:15

Matrix: Solid

Date Received: 05/22/24 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/22/24 18:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	138	S1+	70 - 130				05/21/24 16:20	05/22/24 18:20	1
o-Terphenyl	155	S1+	70 - 130				05/21/24 16:20	05/22/24 18:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	411		4.98		mg/Kg			05/23/24 13:17	1

Client Sample ID: PH 16 @ 4-6'

Lab Sample ID: 880-43796-3

Date Collected: 05/21/24 13:30

Matrix: Solid

Date Received: 05/22/24 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/22/24 18:41	1

Eurofins Midland

Client Sample Results

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1
SDG: Loving NM

Client Sample ID: PH 16 @ 4-6'

Lab Sample ID: 880-43796-3

Date Collected: 05/21/24 13:30

Matrix: Solid

Date Received: 05/22/24 13:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/21/24 16:20	05/22/24 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130				05/21/24 16:20	05/22/24 18:41	1
o-Terphenyl	164	S1+	70 - 130				05/21/24 16:20	05/22/24 18:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	288		5.02		mg/Kg			05/23/24 13:22	1

Client Sample ID: H8 @ 0-6"

Lab Sample ID: 880-43796-4

Date Collected: 05/21/24 14:00

Matrix: Solid

Date Received: 05/22/24 13:18

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	311		4.99		mg/Kg			05/23/24 13:27	1

Surrogate Summary

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1
SDG: Loving NM

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)
880-43796-1	PH 16 @ 0-6"	127	144 S1+
880-43796-2	PH 16 @ 2-4'	138 S1+	155 S1+
880-43796-3	PH 16 @ 4-6'	145 S1+	164 S1+
LCS 880-81231/2-A	Lab Control Sample	99	89
LCSD 880-81231/3-A	Lab Control Sample Dup	100	97
MB 880-81231/1-A	Method Blank	111	119
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1
SDG: Loving NM

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

Lab Sample ID: MB 880-81231/1-A
Matrix: Solid
Analysis Batch: 81242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 81231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 15:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 15:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/21/24 16:20	05/22/24 15:55	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				05/21/24 16:20	05/22/24 15:55	1
o-Terphenyl	119		70 - 130				05/21/24 16:20	05/22/24 15:55	1

Lab Sample ID: LCS 880-81231/2-A
Matrix: Solid
Analysis Batch: 81242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 81231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	862.6		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	829.6		mg/Kg		83	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	99		70 - 130				
o-Terphenyl	89		70 - 130				

Lab Sample ID: LCSD 880-81231/3-A
Matrix: Solid
Analysis Batch: 81242

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 81231

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	914.3		mg/Kg		91	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	916.4		mg/Kg		92	70 - 130	10	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	97		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-81379/1-A
Matrix: Solid
Analysis Batch: 81385

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/23/24 12:06	1

QC Sample Results

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1
SDG: Loving NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-81379/2-A					Client Sample ID: Lab Control Sample				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 81385									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	249.8		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-81379/3-A					Client Sample ID: Lab Control Sample Dup				
Matrix: Solid					Prep Type: Soluble				
Analysis Batch: 81385									
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.7		mg/Kg		101	90 - 110	1	20

QC Association Summary

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1
SDG: Loving NM

GC Semi VOA

Prep Batch: 81231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43796-1	PH 16 @ 0-6"	Total/NA	Solid	8015NM Prep	
880-43796-2	PH 16 @ 2-4'	Total/NA	Solid	8015NM Prep	
880-43796-3	PH 16 @ 4-6'	Total/NA	Solid	8015NM Prep	
MB 880-81231/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-81231/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-81231/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 81242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43796-1	PH 16 @ 0-6"	Total/NA	Solid	8015B NM	81231
880-43796-2	PH 16 @ 2-4'	Total/NA	Solid	8015B NM	81231
880-43796-3	PH 16 @ 4-6'	Total/NA	Solid	8015B NM	81231
MB 880-81231/1-A	Method Blank	Total/NA	Solid	8015B NM	81231
LCS 880-81231/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	81231
LCSD 880-81231/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	81231

Analysis Batch: 81433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43796-1	PH 16 @ 0-6"	Total/NA	Solid	8015 NM	
880-43796-2	PH 16 @ 2-4'	Total/NA	Solid	8015 NM	
880-43796-3	PH 16 @ 4-6'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 81379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43796-1	PH 16 @ 0-6"	Soluble	Solid	DI Leach	
880-43796-2	PH 16 @ 2-4'	Soluble	Solid	DI Leach	
880-43796-3	PH 16 @ 4-6'	Soluble	Solid	DI Leach	
880-43796-4	H8 @ 0-6"	Soluble	Solid	DI Leach	
MB 880-81379/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-81379/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-81379/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 81385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43796-1	PH 16 @ 0-6"	Soluble	Solid	300.0	81379
880-43796-2	PH 16 @ 2-4'	Soluble	Solid	300.0	81379
880-43796-3	PH 16 @ 4-6'	Soluble	Solid	300.0	81379
880-43796-4	H8 @ 0-6"	Soluble	Solid	300.0	81379
MB 880-81379/1-A	Method Blank	Soluble	Solid	300.0	81379
LCS 880-81379/2-A	Lab Control Sample	Soluble	Solid	300.0	81379
LCSD 880-81379/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	81379

Eurofins Midland

Lab Chronicle

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1
SDG: Loving NM

Client Sample ID: PH 16 @ 0-6"

Lab Sample ID: 880-43796-1

Date Collected: 05/21/24 13:00

Matrix: Solid

Date Received: 05/22/24 13:18

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			81433	05/22/24 17:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	81231	05/21/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81242	05/22/24 17:59	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	81379	05/23/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81385	05/23/24 13:11	SMC	EET MID

Client Sample ID: PH 16 @ 2-4'

Lab Sample ID: 880-43796-2

Date Collected: 05/21/24 13:15

Matrix: Solid

Date Received: 05/22/24 13:18

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			81433	05/22/24 18:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	81231	05/21/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81242	05/22/24 18:20	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	81379	05/23/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81385	05/23/24 13:17	SMC	EET MID

Client Sample ID: PH 16 @ 4-6'

Lab Sample ID: 880-43796-3

Date Collected: 05/21/24 13:30

Matrix: Solid

Date Received: 05/22/24 13:18

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			81433	05/22/24 18:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	81231	05/21/24 16:20	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	81242	05/22/24 18:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	81379	05/23/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81385	05/23/24 13:22	SMC	EET MID

Client Sample ID: H8 @ 0-6"

Lab Sample ID: 880-43796-4

Date Collected: 05/21/24 14:00

Matrix: Solid

Date Received: 05/22/24 13:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	81379	05/23/24 08:17	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	81385	05/23/24 13:27	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Midland

Accreditation/Certification Summary

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1
SDG: Loving NM

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

- 1
- 2
- 3
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- 11
- 12
- 13
- 14

Method Summary

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1
SDG: Loving NM

Method	Method Description	Protocol	Laboratory
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
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.

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: BTA Oil Producers
Project/Site: Harroun West Fire - Incident 148

Job ID: 880-43796-1
SDG: Loving NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-43796-1	PH 16 @ 0-6"	Solid	05/21/24 13:00	05/22/24 13:18
880-43796-2	PH 16 @ 2-4'	Solid	05/21/24 13:15	05/22/24 13:18
880-43796-3	PH 16 @ 4-6'	Solid	05/21/24 13:30	05/22/24 13:18
880-43796-4	H8 @ 0-6"	Solid	05/21/24 14:00	05/22/24 13:18

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Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0350
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

Chain of Custody

Project Manager:	Ray Dennis		Bill to: (if different)	
Company Name:	1374 31 Producers		Company Name:	
Address:	104 S Pease St		Address:	
City, State ZIP:	Midland TX 79701		City, State ZIP:	
Phone:	(817) 212-1388	Email:	rdenis@btacil.com	

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____





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[illegible]

Total 2000.7/6010	2000.8/6020:	
8RCRA	13PPM	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
TCLP/SPLP 6010 : 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

Signature of this document constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of sale, intellectual property, and confidentiality to Eurofins Xeno. The client agrees to reimburse Eurofins Xeno for the full 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 service. Eurofins Xeno 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 service. Eurofins Xeno 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 service. A minimum charge of \$35.00 will be applied to empty and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously respected.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/22/24			
		5/18			

Login Sample Receipt Checklist

Client: BTA Oil Producers

Job Number: 880-43796-1
SDG Number: Loving NM

Login Number: 43796
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.	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	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 20, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 05/15/24 8:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/15/2024	Sampling Date:	05/14/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BACKGROUND - BG 1 @ 4' (H242657-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	05/16/2024	ND	416	104	400	7.41	

Sample ID: BACKGROUND - BG 2 @ 4' (H242657-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	05/16/2024	ND	416	104	400	7.41	

Sample ID: BACKGROUND - BG 3 @ 4' (H242657-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	05/16/2024	ND	416	104	400	7.41	

Sample ID: BACKGROUND - BG 4 @ 4' (H242657-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	05/16/2024	ND	416	104	400	7.41	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	05/15/2024	Sampling Date:	05/14/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BACKGROUND - BG 5 @ 4' (H242657-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	05/16/2024	ND	416	104	400	7.41		

Sample ID: BACKGROUND - BG 6 @ 4' (H242657-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	05/16/2024	ND	416	104	400	7.41		

Sample ID: BACKGROUND - BG 7 @ 4' (H242657-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/16/2024	ND	416	104	400	7.41	

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	PRESERV. ACID/BASE: ICE / COOL OTHER :	SAMPLING DATE TIME
H7A205)	Background - B61 @ 4'	X	1			8:30
	Background - B62 @ 4'					8:58
	Background - B63 @ 4'					9:37
	Background - B64 @ 4'					10:00
	Background - B65 @ 4'					10:28
	Background - B66 @ 4'					11:00
	Background - B67 @ 4'					11:49
					Chloride	

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† Cardinal cannot accept verbal changes. Please email changes to celej.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 13, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 06/07/24 16:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 0 @ 2-2.5' (H243292-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69	
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89	
Total BTX	<0.300	0.300	06/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	06/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	22.6	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 9 @ 6-6.5' (H243292-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	06/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	83.4	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	15.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 10 @ 6-6.5' (H243292-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	0.179	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89		
Total BTEx	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	06/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.2	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	626	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	129	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 11 @ 2-2.5' (H243292-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69	
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89	
Total BTEX	<0.300	0.300	06/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	06/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64		
DRO >C10-C28*	34.1	10.0	06/11/2024	ND	229	114	200	3.07		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 19 @ 2-2.5' (H243292-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	06/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 20 @ 6-6.5' (H243292-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	06/12/2024	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	31.9	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 95.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 21 @ 6-6.5' (H243292-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 33 @ 2-2.5' (H243292-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 34 @ 6-6.5' (H243292-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 35 @ 6-6.5' (H243292-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 42 @ 2-2.5' (H243292-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	229	114	200	3.07		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 43 @ 2-2.5' (H243292-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/11/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	174	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	51.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 44 @ 2-2.5' (H243292-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/12/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2960	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	33.7	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	12.3	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 45 @ 6-6.5' (H243292-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/12/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	112	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	19.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 46 @ 6-6.5' (H243292-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/12/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6960	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	445	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	130	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 55 @ 2-2.5' (H243292-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/12/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 51 @ 6-6.5' (H243292-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	1.97	98.7	2.00	5.69	
Toluene*	<0.050	0.050	06/12/2024	ND	1.94	97.0	2.00	6.69	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.90	94.8	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.61	93.6	6.00	6.89	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	06/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	22.0	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 59 @ 6-6.5' (H243292-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.97	98.7	2.00	5.69		
Toluene*	<0.050	0.050	06/12/2024	ND	1.94	97.0	2.00	6.69		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.90	94.8	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.61	93.6	6.00	6.89		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 58 @ 2-2.5' (H243292-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06	
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450	
Total Xylenes*	0.275	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774	
Total BTEX	<0.300	0.300	06/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	06/12/2024	ND	400	100	400	3.92	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	16.9	10.0	06/11/2024	ND	224	112	200	1.64	
DRO >C10-C28*	1240	10.0	06/11/2024	ND	229	114	200	3.07	
EXT DRO >C28-C36	362	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 67 @ 2-2.5' (H243292-22)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	337	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	66.7	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.7 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 68 @ 6-6.5' (H243292-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	133	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	25.3	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 69 @ 6-6.5' (H243292-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450		
Total Xylenes*	0.265	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.7	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	623	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	147	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 70 @ 2-2.5' (H243292-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06	
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774	
Total BTEX	<0.300	0.300	06/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	06/12/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	40.2	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 80 @ 2-2.5' (H243292-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20000	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	145	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	15.7	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.2 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 81 @ 2-2.5' (H243292-27)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.97	98.5	2.00	1.06		
Toluene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	1.02		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.96	97.8	2.00	0.450		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.76	96.1	6.00	0.774		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	06/12/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	64.4	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	11.8	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 82 @ 2-2.5' (H243292-28)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/11/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	06/13/2024	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	57.9	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 83 @ 2-2.5' (H243292-29)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	794	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	272	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.8 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 92 @ 2-2.5' (H243292-30)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71	
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66	GC-NC
Ethylbenzene*	0.671	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88	GC-NC1
Total Xylenes*	5.21	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75	
Total BTEX	5.89	0.300	06/12/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 187 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	06/13/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	740	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	6790	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	1260	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 93 @ 2-2.5' (H243292-31)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71	
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	06/13/2024	ND	416	104	400	0.00	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	78.3	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	21.9	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 67.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.3 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 94 @ 2-2.5' (H243292-32)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3720	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	340	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	74.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 95 @ 2-2.5' (H243292-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	261	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	87.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 104 @ 2-2.5' (H243292-34)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71	
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88	
Total Xylenes*	0.245	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2370	16.0	06/13/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	641	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	130	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 105 @ 2-2.5' (H243292-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	31.4	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 106 @ 2-2.5' (H243292-36)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71	
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	06/13/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	247	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	51.6	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 68.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.2 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 107 @ 2-2.5' (H243292-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	92.4	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	16.2	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 114 @ 2-2.5' (H243292-38)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71	
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66	GC-NC
Ethylbenzene*	0.376	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88	GC-NC1
Total Xylenes*	2.43	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75	
Total BTX	2.81	0.300	06/12/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 163 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	06/13/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	187	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	8840	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	1750	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 167 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 115 @ 2-2.5' (H243292-39)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	798	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	190	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 116 @ 2-2.5' (H243292-40)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3060	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 117 @ 2-2.5' (H243292-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3880	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	1.81	
DRO >C10-C28*	489	10.0	06/11/2024	ND	197	98.5	200	6.00	
EXT DRO >C28-C36	127	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 122 @ 2-2.5' (H243292-42)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71	
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88	
Total Xylenes*	0.251	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75	GC-NC1
Total BTEX	<0.300	0.300	06/12/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 141 % 71.5-134

Chloride, SM4500Cl-B			mg/kg					Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	06/13/2024	ND	416	104	400	0.00	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	38.1	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	1570	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	197	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 123 @ 2-2.5' (H243292-43)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	QM-07, QR-03
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 124 @ 2-2.5' (H243292-44)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	27.8	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 128 @ 2-2.5' (H243292-45)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	18.1	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 129 @ 2-2.5' (H243292-46)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEx	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 130 @ 2-2.5' (H243292-47)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	1.82	91.0	2.00	1.71		
Toluene*	<0.050	0.050	06/12/2024	ND	1.85	92.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.89	94.6	2.00	1.88		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.71	95.1	6.00	1.75		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	06/13/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	74.6	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 131 @ 2-2.5' (H243292-48)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	06/12/2024	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 135 @ 2-2.5' (H243292-49)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 137 @ 2-2.5' (H243292-50)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 138 @ 2-2.5' (H243292-51)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38	
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38	
Total BTEx	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 143 @ 2-2.5' (H243292-52)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 144 @ 2-2.5' (H243292-53)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 145 @ 2-2.5' (H243292-54)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 154 @ 2-2.5' (H243292-55)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919		
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7		
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 155 @ 2-2.5' (H243292-56)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38	
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 156 @ 2-2.5' (H243292-57)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 157 @ 2-2.5' (H243292-58)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 158 @ 2-2.5' (H243292-59)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38	
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 34 @ 0-2' (H243292-62)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38	
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7840	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 35 @ 0-2' (H243292-63)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38	
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7840	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	192	96.2	200	0.919	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.3	200	11.7	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 36 @ 0-2' (H243292-64)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 38 @ 0-2' (H243292-66)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38	
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	06/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 41 @ 0-2' (H243292-69)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	23.4	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 42 @ 0-2' (H243292-70)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 43 @ 2-6' (H243292-71)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEx	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 45 @ 2-6' (H243292-73)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.13	106	2.00	4.38		
Toluene*	<0.050	0.050	06/12/2024	ND	2.09	104	2.00	4.37		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	2.11	105	2.00	4.40		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	6.12	102	6.00	4.38		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	06/12/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	195	97.7	200	2.41		
DRO >C10-C28*	75.0	10.0	06/11/2024	ND	217	109	200	0.758		
EXT DRO >C28-C36	19.2	10.0	06/11/2024	ND						

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 46 @ 2-6' (H243292-74)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/12/2024	ND	2.05	103	2.00	0.422	
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374	
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291	
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232	
Total BTEX	<0.300	0.300	06/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	06/13/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	195	97.7	200	2.41	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	217	109	200	0.758	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 1 @ 0-2' (H243292-76)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	06/13/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	202	101	200	2.47	
DRO >C10-C28*	295	10.0	06/11/2024	ND	179	89.5	200	5.72	
EXT DRO >C28-C36	29.9	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/07/2024	Sampling Date:	06/07/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 1 @ 2-2.5' (H243292-78)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/12/2024	ND	2.05	103	2.00	0.422		
Toluene*	<0.050	0.050	06/12/2024	ND	2.04	102	2.00	0.374		
Ethylbenzene*	<0.050	0.050	06/12/2024	ND	1.94	96.8	2.00	0.291		
Total Xylenes*	<0.150	0.150	06/12/2024	ND	5.99	99.8	6.00	0.232		
Total BTEX	<0.300	0.300	06/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	06/13/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	202	101	200	2.47	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	179	89.5	200	5.72	QM-07
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Page of

Client Name:

BTA Oil Producers, LLC

Site Manager:

Ray Ramos

Project Name:

Harroun Ranch Battery West Fire

432-313-1288

Project Location:

Loving, Lea County, NM

Project #:

Incident 148

Invoice to:

Ray Ramos, Incident 148

Sampler Name:

Receiving Laboratory:

Cardinal Laboratory

Sampler Signature:

Comments:

Reference Incident 148 on invoice

Client Name:		BTA Oil Producers, LLC		Site Manager:		Ray Ramos															
Project Name:		Harroun Ranch Battery West Fire		Project #:		432-313-1288															
Project Location:		Loving, Lea County, NM		Project #:		Incident 148															
Invoice to:		Ray Ramos, Incident 148		Sample Name:		Incident 148															
Receiving Laboratory:		Cardinal Laboratory		Sampler Signature:																	
Comments:		Reference Incident 148 on invoice																			
LAB #		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)		ANALYSIS REQUEST							
(LAB USE ONLY)				YEAR 2024																	
				DATE		TIME		WATER		SOIL		HCL		HNO3		ICE					
1		BH-0-0 2-2.5-1		6/6		10:00		X		X		X		X		1		X		BTEX 8021B	
2		BH-7-0 6-6.5		6/6		10:10		X		X		X		X		1		X		TPH 8015M (GRO - DRO - ORO - MRO)	
3		BH-10-0 6-6.5		6/6		10:20		X		X		X		X		1		X		Chloride	
4		BH-11-0 2-2.5		6/6		10:30		X		X		X		X		1		X			
5		BH-19-0 2-2.5		6/6		10:40		X		X		X		X		1		X			
6		BH-20-0 6-6.5		6/6		10:50		X		X		X		X		1		X			
7		BH-21-0 6-6.5		6/6		11:00		X		X		X		X		1		X			
8		BH-22-0 2-2.5		6/6		11:10		X		X		X		X		1		X			
9		BH-33-0 2-2.5		6/6		11:20		X		X		X		X		1		X			
10		BH-34-0 6-6.5		6/6		11:30		X		X		X		X		1		X			
Inquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT		Sample Temperature		RUSH: Same Day 24 hr 48 hr 72 hr		Special Report Limits or TRRP Report			
Inquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT		Sample Temperature		RUSH: Same Day 24 hr 48 hr 72 hr		Special Report Limits or TRRP Report			
Inquished by:		Date: Time:		Received by:		Date: Time:		LAB USE ONLY		REMARKS:		Standard TAT		Sample Temperature		RUSH: Same Day 24 hr 48 hr 72 hr		Special Report Limits or TRRP Report			

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC
Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire
432-313-1288

Project Location: Loving, Lea County, NM
Project #: Incident 148

Invoice to: Ray Ramos, Incident 148
Sampler Name:

Receiving Laboratory: Cardinal Laboratory
Sampler Signature:

Comments: Reference Incident 148 on invoice

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		YEAR: 2024	DATE	TIME	WATER	SOIL	HCL		
							HNO ₃		

11	BH-35.0 6-6.5	6/4	11:40	X	X	X	X	1	
12	BH-36.0 3-2.5 BH-42.0 2-2.5		12:00	X	X	X	X	1	
13	BH-43.0 2-2.5		12:10	X	X	X	X	1	
14	BH-44.0 2-2.5		12:20	X	X	X	X	1	
15	BH-45.0 6-6.5		12:30	X	X	X	X	1	
16	BH-46.0 6-6.5		12:40	X	X	X	X	1	
17	BH-55.0 2-2.5		12:50	X	X	X	X	1	
18	BH-51.0 6-6.5		1:00	X	X	X	X	1	
19	BH-59.0 6-6.5		1:10	X	X	X	X	1	

Disinquired by: <i>[Signature]</i>	Date: 6/7/24	Time: 4:28	Received by: <i>[Signature]</i>	Date: 6-7-24	Time: 11:53
Disinquired by:	Date:	Time:	Received by:	Date:	Time:

ANALYSIS REQUEST

BTEX 8021B	X	X	X
TPH 8015M (GRO - DRO - ORO - MRO)	X	X	X
Chloride	X	X	X

LAB USE ONLY

Sample Temperature: 4.0

REMARKS: Standard TAT

☒ NO sample #12. SK

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Hold

ORIGINAL COPY

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name:

Harroun Ranch Battery West Fire

432-313-1288

Project Location:

(county, state) Loving, Lea County, NM

Project #:

Incident 148

Invoice to:

Ray Ramos, Incident 148

Sampler Name:

Receiving Laboratory:

Cardinal Laboratory

Sampler Signature:

Comments:

Reference Incident 148 on invoice

LAB # 112432912
LAB USE ONLY

SAMPLE IDENTIFICATION

LAB USE ONLY

SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
YEAR 2024	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE

BTEX 8021B
TPH 8015M (GRO - DRO - ORO - MRO)
Chloride

ANALYSIS REQUEST

Hold

21	BH-58	2-2.5	4/7	10:12	X		X			1		X	X	X
22	BH-67	2-2.5		10:27	X		X			1		X	X	X
23	BH-68	6-6.5		10:35	X		X			1		X	X	X
24	BH-69	6-6.5		10:42	X		X			1		X	X	X
25	BH-70	2-2.5		10:58	X		X			1		X	X	X
26	BH-80	2-2.5		11:08	X		X			1		X	X	X
27	BH-81	2-2.5		11:15	X		X			1		X	X	X
28	BH-82	2-2.5		11:23	X		X			1		X	X	X
29	BH-83	2-2.5		11:30	X		X			1		X	X	X
30	BH-92	2-2.5		11:40	X		X			1		X	X	X

Quinched by:

Date: 4/7/24

Time: 4:29

Quinched by:

Date: 4/7/24

Time: 10:53

Quinched by:

Date:

Time:

LAB USE ONLY
Sample Temperature
4.0

REMARKS: Standard JAT

- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Page 74 of 78

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name:	BTA Oil Producers, LLC	Site Manager:	Ray Ramos
--------------	------------------------	---------------	-----------

Project Name:	
---------------	--

Harroun Ranch Battery West Fire
432-313-1288

Project Location: (county, state)	Loving, Lea County, NM	Project #:	Incident 148
--------------------------------------	------------------------	------------	--------------

Invoice to:	Sampler Name:
-------------	---------------

Receiving Laboratory: _____

Sampler Signature: _____

Comments:

LAB # 1-213292

SAMPLE IDENTIFICATION

LAB USE ONLY

SAMPLING

YEAR: 2024

DATE
TIME

WATER
SOIL

HCL
HNO ₃
ICE

CONTAINERS

FILTERED (Y/N)

BTEX 8021B
TPH 8015M (GRO - DRO - ORO - MRO)
Chloride

ANALYSIS REQUEST

Inquisited by:	Date:	Time:
U1 BH-119 • @	2-2.5	
U2 BH-122 • @	2-2.5	
U3 BH-123 • @	2-2.5	
U4 BH-124 • @	2-2.5	
U5 BH-128 • @	2-2.5	
U6 BH-129 • @	2-2.5	
U7 BH-130 • @	2-2.5	
U8 BH-131 • @	2-2.5	
U9 BH-135 • @	2-2.5	
S0 BH-139 • @	2-2.5	

[illegible]

Inquired by: [Signature]
Date: 6/7/24 Time: 4:29

Date: _____ Time: _____

Received by: Adams Date: 1-7-21 Time: 1653

LAB USE
ONLY

Inquired by: _____ Date: _____ Time: _____

Received by:

Date: _____ Time: _____

Sample Temperature
4.8

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

((Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record

Page _____ of _____

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name:

BTA Oil Producers, LLC

Site Manager:

Ray Ramos

Project Name:

Harroun Ranch Battery West Fire

432-313-1288

Project Location:

(county, state) Loving, Lea County, NM

Project #:

Incident 148

Invoice to:

Ray Ramos, Incident 148

Sampler Name:

Receiving Laboratory:

Cardinal Laboratory

Sampler Signature:

Comments:

Reference Incident 148 on invoice

ANALYSIS REQUEST

LAB # H243097
(LAB USE ONLY)

SAMPLE IDENTIFICATION

SAMPLING

YEAR 2024

DATE

TIME

MATRIX

WATER
SOIL

PRESERVATIVE METHOD

HCL
HNO₃
ICE

CONTAINERS

FILTERED (Y/N)

BTEX 8021B

TPH 8015M (GRO - DRO - ORO - MRO)

Chloride

Hold

U1	SW-33	0-2'	6/16	8:10	X	X	X	X	X	1	X	X	X	NO sample
U2	SW-34	0-2'			X			X		1	X	X	X	
U3	SW-35	0-2'			X			X		1	X	X	X	
U4	SW-36	0-2'			X			X		1	X	X	X	
U5	SW-37	0-2'			X			X		1	X	X	X	NO sample
U6	SW-38	0-2'			X			X		1	X	X	X	
U7	SW-39	0-2'			X			X		1	X	X	X	NO sample
U8	SW-40	0-2'			X			X		1	X	X	X	NO sample
U9	SW-41	0-2'			X			X		1	X	X	X	
U10	SW-42	0-2'			X			X		1	X	X	X	

Requisitioned by:

U. Luna

Date:

Time: 4:29

Received by:

ADP

Date: 6-7-24

Time: 10:53

Requisitioned by:

Date:

Time:

Received by:

Date:

Time:

LAB USE ONLY

Sample Temperature

4.0

REMARKS: Standard JAT

* No samples # U1, U5, U7, U8

8/2

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

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140

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name:

Harroun Ranch Battery West Fire

432-313-1288

Project Location:

Loving, Lea County, NM

Project #:

Incident 148

Invoice to:

Ray Ramos, Incident 148

Sampler Name:

Receiving Laboratory:

Cardinal Laboratory

Sampler Signature:

Comments:

Reference Incident 148 on invoice

ANALYSIS REQUEST

LAB # H213292

SAMPLE IDENTIFICATION

(LAB USE ONLY)

YEAR: 2024	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			

BTEX 8021B
TPH 8015M (GRO - DRO - ORO - MRO)
Chloride

Hold

71	SW-43	2'-6"	6/7	8:00	X		X		1		X	X	X
72	SW-44	2'-6"		8:10	X		X		1		X	X	X
73	SW-45	2'-6"		8:30	X		X		1		X	X	X
74	SW-46	2'-6"		8:30	X		X		1		X	X	X
75	SW-47	2'-1"		8:40	X		X		1		X	X	X
76	SW-1	0-2'		8:50	X		X		1		X	X	X
77	SW-48	2'-6"		9:00	X		X		1		X	X	X
78	BH-1	2-2.5		3:09	X		X		1		X	X	X

NO SAMPLE
NO SAMPLE
NO SAMPLE

Relinquished by: [Signature]

Date: Time:

Relinquished by: [Signature]

Date: Time:

Relinquished by: [Signature]

Date: Time:

Received by: [Signature]

Date: Time:

Received by: [Signature]

Date: Time:

LAB USE ONLY

REMARKS:

Standard TAT

X NO SAMPLES #12, 75, 77, 78

Sample Temperature

4.0

☐ RUSH: Same Day 24 hr 48 hr 72 hr 84 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

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(Circle) HAND DELIVERED FEDEX UPS Tracking #:

140



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 18, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 06/12/24 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 2 @ 0-2' (H243418-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2024	ND	1.91	95.4	2.00	6.31	
Toluene*	<0.050	0.050	06/15/2024	ND	2.09	104	2.00	5.30	
Ethylbenzene*	<0.050	0.050	06/15/2024	ND	2.12	106	2.00	4.96	
Total Xylenes*	<0.150	0.150	06/15/2024	ND	6.56	109	6.00	4.36	
Total BTEX	<0.300	0.300	06/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	06/17/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	217	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	51.2	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 59.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 3 @ 0-2' (H243418-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2024	ND	1.91	95.4	2.00	6.31		
Toluene*	<0.050	0.050	06/15/2024	ND	2.09	104	2.00	5.30		
Ethylbenzene*	<0.050	0.050	06/15/2024	ND	2.12	106	2.00	4.96		
Total Xylenes*	<0.150	0.150	06/15/2024	ND	6.56	109	6.00	4.36		
Total BTEX	<0.300	0.300	06/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5120	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 60.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 6 @ 0-2' (H243418-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	135	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	53.7	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 61.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 8 @ 0-2' (H243418-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	322	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	256	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 63.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 9 @ 4-6' (H243418-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	15.0	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 58.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 56.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 10 @ 4-6' (H243418-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12	
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43	
Total BTEX	<0.300	0.300	06/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	06/17/2024	ND	416	104	400	0.00	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	771	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	387	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 11 @ 4-6' (H243418-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 12 @ 4-6' (H243418-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6240	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 13 @ 0-2' (H243418-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.6 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 14 @ 0-2' (H243418-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 15 @ 0-2' (H243418-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.6 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 16 @ 0-2' (H243418-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.7 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 17 @ 0-2' (H243418-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	53.5	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	13.5	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 68.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.0 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 18 @ 0-2' (H243418-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	06/17/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 64.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.3 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 19 @ 0-2' (H243418-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	18.6	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 20 @ 0-2' (H243418-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	45.4	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 77.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 22 @ 0-2' (H243418-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 23 @ 0-2' (H243418-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	11.6	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 24 @ 0-2' (H243418-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3480	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	170	84.9	200	1.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	166	83.2	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 74.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 25 @ 0-2' (H243418-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12	
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49	GC-NC
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43	
Total BTEX	<0.300	0.300	06/14/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	188	94.2	200	4.00	
DRO >C10-C28*	751	10.0	06/14/2024	ND	173	86.6	200	4.02	QM-07
EXT DRO >C28-C36	94.5	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 26 @ 0-2' (H243418-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49	GC-NC	
Total Xylenes*	0.341	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43	GC-NC1	
Total BTEX	0.341	0.300	06/14/2024	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	32.9	10.0	06/14/2024	ND	188	94.2	200	4.00	
DRO >C10-C28*	1720	10.0	06/14/2024	ND	173	86.6	200	4.02	
EXT DRO >C28-C36	221	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 27 @ 0-2' (H243418-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.85	92.4	2.00	9.12		
Toluene*	<0.050	0.050	06/14/2024	ND	1.86	92.8	2.00	8.96		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.77	88.6	2.00	8.49		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.52	92.0	6.00	8.43		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	188	94.2	200	4.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	173	86.6	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 28 @ 0-2' (H243418-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.79	89.6	2.00	6.69	QM-07	
Toluene*	<0.050	0.050	06/14/2024	ND	1.84	92.0	2.00	8.36		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.94	97.1	2.00	8.37		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.82	97.1	6.00	7.83		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	188	94.2	200	4.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	173	86.6	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 29 @ 0-2' (H243418-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.79	89.6	2.00	6.69		
Toluene*	<0.050	0.050	06/14/2024	ND	1.84	92.0	2.00	8.36		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.94	97.1	2.00	8.37		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.82	97.1	6.00	7.83		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4160	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	188	94.2	200	4.00	
DRO >C10-C28*	41.1	10.0	06/14/2024	ND	173	86.6	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 30 @ 0-2' (H243418-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.79	89.6	2.00	6.69		
Toluene*	<0.050	0.050	06/14/2024	ND	1.84	92.0	2.00	8.36		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.94	97.1	2.00	8.37		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.82	97.1	6.00	7.83		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	188	94.2	200	4.00	
DRO >C10-C28*	17.0	10.0	06/14/2024	ND	173	86.6	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/12/2024	Sampling Date:	06/12/2024
Reported:	06/18/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 32 @ 0-2' (H243418-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/14/2024	ND	1.79	89.6	2.00	6.69		
Toluene*	<0.050	0.050	06/14/2024	ND	1.84	92.0	2.00	8.36		
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	1.94	97.1	2.00	8.37		
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.82	97.1	6.00	7.83		
Total BTEX	<0.300	0.300	06/14/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4040	16.0	06/14/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	188	94.2	200	4.00	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	173	86.6	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

BIA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name:

Page _____ of _____

BTA Oil Producers, LLC		Site Manager:	Ray Ramos
Project Name:	Harroun Ranch Battery West Fire		
Project Location: (county, state)	Loving, Lea County, NM	Project #:	432-313-1288
Invoice to:	Ray Ramos, Incident 148	Sampler Name:	Incident 148
Receiving Laboratory:	Cardinal Laboratory	Sampler Signature:	
Comments:	Reference Incident 148 on invoice		

ANALYSIS REQUEST

SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B TPH 8015M (GRO - DRO - O Chloride
	DATE	TIME					
	YEAR 2024						
SW-2 @ 0-2'	6/12	9:00	WATER				
SW-3 @ 0-2'	6/12	7:10	SOIL				
SW-6 @ 0-2'	6/12	9:20	HCL				
SW-8 @ 0-2'	6/12	7:30	HNO ₃				
SW-9 @ 0-2'	6/12	7:40	ICE				
SW-10 @ 0-2'	6/12	7:50					
SW-11 @ 0-2'	6/12	10:00					
SW-12 @ 0-2'	6/12	10:10					
SW-13 @ 0-2'	6/12	10:20					
SW-14 @ 0-2'	6/12	10:30					

Date: 4/11/24 Time: 3:33 PM	Date: 4/12/24 Time: 1340
--------------------------------	-----------------------------

Date:	Time:	Received by:	Date:	Time:
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LAB USE ONLY

REMARKS: Standard TAT

☐ RUSH Same Day 24 hr 48 hr 72 hr

Sample Temperature

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(NAME) AND DELIVERED FEDEX UPS Tracking #

Analysis Request of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name:

BTA Oil Producers, LLC

Site Manager:

Ray Ramos

Project Name:

Harroun Ranch Battery West Fire

Project Location:

Loving, Lea County, NM

Project #:

432-313-1288

Invoice to:

Ray Ramos, Incident 148

Sampler Name:

Incident 148

Receiving Laboratory:

Cardinal Laboratory

Sampler Signature:

Reference Incident 148 on invoice

Comments:

LAB #
LAB USE ONLY

SAMPLE IDENTIFICATION

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL			
1	SW-15	6/12	10:40	X		✓	1	X
12	SW-14			X			1	X
13	SW-17			X			1	X
14	SW-18			X			1	X
15	SW-14			X			1	X
16	SW-20			X			1	X
17	SW-22			X			1	X
18	SW-23			X			1	X
19	SW-24			X			1	X
20	SW-25			X			1	X

BTEX 8021B
TPH 8015M (GRO - DRO - ORO - MRO)
Chloride

ANALYSIS REQUEST

LAB USE ONLY

Sample Temperature
#5.8°C

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

REMARKS:

Standard TAT

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name:

BTA Oil Producers, LLC

Site Manager:

Ray Ramos

Project Location:

Harroun Ranch Battery West Fire
Loving, Lea County, NM

Project #:

432-313-1288

Invoice to:

Ray Ramos, Incident 148

Project Name:

Incident 148

Receiving Laboratory:

Cardinal Laboratory

Sampler Signature:

Reference Incident 148 on invoice

LAB # 1243418

LAB USE ONLY

SAMPLE IDENTIFICATION

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
21	SW-26 @	6/12	12:30	X			X			1	X
22	SW-27 @	6/12	12:30	X			X			1	X
23	SW-28 @	6/12	12:30	X			X			1	X
24	SW-29 @	6/12	12:40	X			X			1	X
25	SW-30 @	6/12	12:50	X			X			1	X
26	SW-32 @	6/12	1:00	X			X			1	X
	SW-34 @	6/12	1:10	X			X			1	X
	SW-35 @			X			X			1	X
	SW-36 @			X			X			1	X

Shipped by: [Signature]
Date: 6/12/24 Time: 3:25P

Received by: [Signature]
Date: 6/12/24 Time: 15:10

Shipped by: [Signature]
Date: 6/12/24 Time: 15:10

Received by: [Signature]
Date: 6/12/24 Time: 15:10

ANALYSIS REQUEST

BTEX 8021B	
TPH 8015M (GRO - DRO - ORO - MRO)	
Chloride	

LAB USE ONLY

Sample Temperature

5-8°C

REMARKS:

Standard TAT

☐ RUSH

Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 21, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 06/12/24 17:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH - 2 @ 2-2.5	H243425-01	Soil	11-Jun-24 08:00	12-Jun-24 17:15
BH - 3 @ 2-2.5	H243425-02	Soil	11-Jun-24 08:10	12-Jun-24 17:15
BH - 4 @ 2-2.5	H243425-03	Soil	11-Jun-24 08:20	12-Jun-24 17:15
BH - 5 @ 2-2.5	H243425-04	Soil	11-Jun-24 08:30	12-Jun-24 17:15
BH - 6 @ 2-2.5	H243425-05	Soil	11-Jun-24 08:40	12-Jun-24 17:15
BH - 7 @ 2-2.5	H243425-06	Soil	11-Jun-24 08:50	12-Jun-24 17:15
BH - 8 @ 2-2.5	H243425-07	Soil	11-Jun-24 09:00	12-Jun-24 17:15
BH - 12 @ 2-2.5	H243425-08	Soil	11-Jun-24 09:10	12-Jun-24 17:15
BH - 13 @ 2-2.5	H243425-09	Soil	11-Jun-24 09:20	12-Jun-24 17:15
BH - 14 @ 2-2.5	H243425-10	Soil	11-Jun-24 09:30	12-Jun-24 17:15
BH - 15 @ 2-2.5	H243425-11	Soil	11-Jun-24 09:40	12-Jun-24 17:15
BH - 16 @ 2-2.5	H243425-12	Soil	11-Jun-24 09:50	12-Jun-24 17:15
BH - 17 @ 2-2.5	H243425-13	Soil	11-Jun-24 10:00	12-Jun-24 17:15
BH - 18 @ 2-2.5	H243425-14	Soil	11-Jun-24 10:10	12-Jun-24 17:15
BH - 22 @ 2-2.5	H243425-15	Soil	11-Jun-24 10:20	12-Jun-24 17:15
BH - 23 @ 2-2.5	H243425-16	Soil	11-Jun-24 10:30	12-Jun-24 17:15
BH - 24 @ 2-2.5	H243425-17	Soil	11-Jun-24 10:40	12-Jun-24 17:15
BH - 25 @ 2-2.5	H243425-18	Soil	11-Jun-24 10:50	12-Jun-24 17:15
BH - 26 @ 2-2.5	H243425-19	Soil	11-Jun-24 11:00	12-Jun-24 17:15
BH - 27 @ 2-2.5	H243425-20	Soil	11-Jun-24 11:10	12-Jun-24 17:15
BH - 28 @ 2-2.5	H243425-21	Soil	11-Jun-24 11:20	12-Jun-24 17:15
BH - 29 @ 2-2.5	H243425-22	Soil	11-Jun-24 11:30	12-Jun-24 17:15
BH - 30 @ 2-2.5	H243425-23	Soil	11-Jun-24 11:40	12-Jun-24 17:15
BH - 31 @ 2-2.5	H243425-24	Soil	11-Jun-24 11:50	12-Jun-24 17:15
BH - 32 @ 2-2.5	H243425-25	Soil	11-Jun-24 12:00	12-Jun-24 17:15
BH - 36 @ 2-2.5	H243425-26	Soil	11-Jun-24 12:10	12-Jun-24 17:15
BH - 37 @ 2-2.5	H243425-27	Soil	11-Jun-24 12:20	12-Jun-24 17:15

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 39 @ 2-2.5	H243425-28	Soil	11-Jun-24 12:30	12-Jun-24 17:15
BH - 40 @ 2-2.5	H243425-29	Soil	11-Jun-24 12:40	12-Jun-24 17:15
BH - 41 @ 2-2.5	H243425-30	Soil	11-Jun-24 12:50	12-Jun-24 17:15
BH - 47 @ 2-2.5	H243425-31	Soil	11-Jun-24 13:00	12-Jun-24 17:15
BH - 48 @ 2-2.5	H243425-32	Soil	11-Jun-24 13:10	12-Jun-24 17:15
BH - 49 @ 2-2.5	H243425-33	Soil	11-Jun-24 13:20	12-Jun-24 17:15
BH - 50 @ 2-2.5	H243425-34	Soil	11-Jun-24 13:30	12-Jun-24 17:15
BH - 52 @ 2-2.5	H243425-35	Soil	11-Jun-24 13:40	12-Jun-24 17:15
BH - 53 @ 2-2.5	H243425-36	Soil	11-Jun-24 13:50	12-Jun-24 17:15
BH - 59 @ 2-2.5	H243425-37	Soil	11-Jun-24 14:00	12-Jun-24 17:15
BH - 60 @ 2-2.5	H243425-38	Soil	11-Jun-24 14:10	12-Jun-24 17:15
BH - 61 @ 2-2.5	H243425-39	Soil	11-Jun-24 14:20	12-Jun-24 17:15
BH - 63 @ 2-2.5	H243425-40	Soil	11-Jun-24 14:30	12-Jun-24 17:15
BH - 64 @ 2-2.5	H243425-41	Soil	11-Jun-24 14:40	12-Jun-24 17:15
BH - 65 @ 2-2.5	H243425-42	Soil	11-Jun-24 14:50	12-Jun-24 17:15
BH - 66 @ 2-2.5	H243425-43	Soil	11-Jun-24 15:00	12-Jun-24 17:15
BH - 71 @ 2-2.5	H243425-44	Soil	11-Jun-24 15:10	12-Jun-24 17:15
BH - 72 @ 2-2.5	H243425-45	Soil	11-Jun-24 15:20	12-Jun-24 17:15
BH - 73 @ 2-2.5	H243425-46	Soil	11-Jun-24 15:30	12-Jun-24 17:15
BH - 74 @ 2-2.5	H243425-47	Soil	11-Jun-24 15:40	12-Jun-24 17:15
BH - 75 @ 2-2.5	H243425-48	Soil	11-Jun-24 15:50	12-Jun-24 17:15
BH - 77 @ 2-2.5	H243425-49	Soil	11-Jun-24 16:00	12-Jun-24 17:15
BH - 78 @ 2-2.5	H243425-50	Soil	11-Jun-24 16:10	12-Jun-24 17:15
BH - 84 @ 2-2.5	H243425-51	Soil	12-Jun-24 08:00	12-Jun-24 17:15
BH - 85 @ 2-2.5	H243425-52	Soil	12-Jun-24 08:10	12-Jun-24 17:15
BH - 86 @ 2-2.5	H243425-53	Soil	12-Jun-24 08:20	12-Jun-24 17:15
BH - 87 @ 2-2.5	H243425-54	Soil	12-Jun-24 08:30	12-Jun-24 17:15
BH - 88 @ 2-2.5	H243425-55	Soil	12-Jun-24 08:40	12-Jun-24 17:15
BH - 89 @ 2-2.5	H243425-56	Soil	12-Jun-24 08:50	12-Jun-24 17:15
BH - 91 @ 2-2.5	H243425-57	Soil	12-Jun-24 09:00	12-Jun-24 17:15

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 96 @ 2-2.5	H243425-58	Soil	12-Jun-24 09:10	12-Jun-24 17:15
BH - 97 @ 2-2.5	H243425-59	Soil	12-Jun-24 09:20	12-Jun-24 17:15
BH - 99 @ 2-2.5	H243425-60	Soil	12-Jun-24 09:30	12-Jun-24 17:15
BH - 100 @ 2-2.5	H243425-61	Soil	12-Jun-24 09:40	12-Jun-24 17:15
BH - 101 @ 2-2.5	H243425-62	Soil	12-Jun-24 09:50	12-Jun-24 17:15
BH - 102 @ 2-2.5	H243425-63	Soil	12-Jun-24 10:00	12-Jun-24 17:15
BH - 103 @ 2-2.5	H243425-64	Soil	12-Jun-24 10:10	12-Jun-24 17:15
BH - 108 @ 2-2.5	H243425-65	Soil	12-Jun-24 10:20	12-Jun-24 17:15
BH - 109 @ 2-2.5	H243425-66	Soil	12-Jun-24 10:30	12-Jun-24 17:15
BH - 111 @ 2-2.5	H243425-67	Soil	12-Jun-24 10:40	12-Jun-24 17:15
BH - 112 @ 2-2.5	H243425-68	Soil	12-Jun-24 10:50	12-Jun-24 17:15
BH - 113 @ 2-2.5	H243425-69	Soil	12-Jun-24 11:00	12-Jun-24 17:15
BH - 118 @ 2-2.5	H243425-70	Soil	12-Jun-24 11:10	12-Jun-24 17:15
BH - 119 @ 2-2.5	H243425-71	Soil	12-Jun-24 11:20	12-Jun-24 17:15
BH - 120 @ 2-2.5	H243425-72	Soil	12-Jun-24 11:30	12-Jun-24 17:15
BH - 121 @ 2-2.5	H243425-73	Soil	12-Jun-24 11:40	12-Jun-24 17:15
BH - 127 @ 2-2.5	H243425-74	Soil	12-Jun-24 11:50	12-Jun-24 17:15
BH - 151 @ 2-2.5	H243425-75	Soil	12-Jun-24 12:00	12-Jun-24 17:15
BH - 156 @ 2-2.5	H243425-76	Soil	12-Jun-24 12:10	12-Jun-24 17:15

06/21/24 - Client changed the sample ID on -37 and removed samples -77, -78 and -79 (see COC). This is the revised report and will replace the one sent on 06/18/24.

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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 2 @ 2-2.5**H243425-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1390		16.0	mg/kg	4	4061702	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	4061332	JH	17-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061332	JH	17-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061332	JH	17-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061332	JH	17-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061332	JH	17-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 140 % 71.5-134 4061332 JH 17-Jun-24 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	72.8		10.0	mg/kg	1	4061318	MS	14-Jun-24	8015B	
DRO >C10-C28*	4940		10.0	mg/kg	1	4061318	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	607		10.0	mg/kg	1	4061318	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane 120 % 48.2-134 4061318 MS 14-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 189 % 49.1-148 4061318 MS 14-Jun-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 3 @ 2-2.5**H243425-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3360		16.0	mg/kg	4	4061702	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061332	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			120 %		71.5-134	4061332	JH	14-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061318	MS	14-Jun-24	8015B	
DRO >C10-C28*	17.3		10.0	mg/kg	1	4061318	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061318	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			102 %		48.2-134	4061318	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			112 %		49.1-148	4061318	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 4 @ 2-2.5**H243425-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	720		16.0	mg/kg	4	4061702	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061332	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			126 %		71.5-134	4061332	JH	14-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061318	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061318	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061318	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			120 %		48.2-134	4061318	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			131 %		49.1-148	4061318	MS	14-Jun-24	8015B	
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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 5 @ 2-2.5**H243425-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4200		16.0	mg/kg	4	4061702	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061332	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134 4061332 JH 14-Jun-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	11.1		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	366		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	QM-07, QR-03
EXT DRO >C28-C36	47.1		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane 117 % 48.2-134 4061319 MS 14-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 135 % 49.1-148 4061319 MS 14-Jun-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 6 @ 2-2.5**H243425-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	960		16.0	mg/kg	4	4061437	HM	14-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061332	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			126 %		71.5-134	4061332	JH	14-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	319		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			97.9 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			114 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 7 @ 2-2.5**H243425-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	848		16.0	mg/kg	4	4061437	HM	14-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061332	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061332	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			122 %		71.5-134	4061332	JH	14-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	19.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			97.4 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			110 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 8 @ 2-2.5**H243425-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3280		16.0	mg/kg	4	4061437	HM	14-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061415	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	71.5-134	4061415	JH	14-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	104 %	48.2-134	4061319	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	116 %	49.1-148	4061319	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 12 @ 2-2.5**H243425-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5040		16.0	mg/kg	4	4061437	HM	14-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	4061415	JH	14-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	1190		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	336		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			105 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			132 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 13 @ 2-2.5**H243425-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	640		16.0	mg/kg	4	4061437	HM	14-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 4061415 JH 14-Jun-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane 101 % 48.2-134 4061319 MS 14-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 111 % 49.1-148 4061319 MS 14-Jun-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 14 @ 2-2.5**H243425-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3920		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %		71.5-134	4061415	JH	14-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	15.7		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			93.3 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 15 @ 2-2.5**H243425-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3280		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %		71.5-134	4061415	JH	14-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	534		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	44.4		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			123 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			147 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 16 @ 2-2.5**H243425-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1120		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		71.5-134	4061415	JH	14-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	2250		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	31.6		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			87.4 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			115 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 17 @ 2-2.5**H243425-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1060		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	4061415	JH	14-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	13.4		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			93.0 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			105 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 18 @ 2-2.5**H243425-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5360		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %		71.5-134	4061415	JH	14-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			92.7 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			104 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 22 @ 2-2.5**H243425-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	384		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061415	JH	14-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061415	JH	14-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	71.5-134	4061415	JH	14-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	90.9 %	48.2-134	4061319	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	100 %	49.1-148	4061319	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 23 @ 2-2.5**H243425-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	688		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %		71.5-134	4061415	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	15.1		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			94.9 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			105 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 24 @ 2-2.5**H243425-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2400		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %		71.5-134	4061415	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	19.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			95.9 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			105 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 25 @ 2-2.5**H243425-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7600		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %		71.5-134	4061415	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	299		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	89.3		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			93.6 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			123 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 26 @ 2-2.5**H243425-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7760		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			125 %		71.5-134	4061415	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	2880		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	762		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			95.6 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			123 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 27 @ 2-2.5**H243425-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2840		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061415	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	113 %	71.5-134	4061415	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	98.9 %	48.2-134	4061319	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	110 %	49.1-148	4061319	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 28 @ 2-2.5**H243425-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1760		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	4061415	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			94.3 %		48.2-134	4061319	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			106 %		49.1-148	4061319	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 29 @ 2-2.5**H243425-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1890		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B
Toluene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	4061415	JH	15-Jun-24	8021B
Total BTEX	<0.300	0.300	mg/kg	50	4061415	JH	15-Jun-24	8021B

Surrogate: 4-Bromofluorobenzene (PID)	111 %	71.5-134	4061415	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061319	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	97.6 %	48.2-134	4061319	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	109 %	49.1-148	4061319	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 30 @ 2-2.5**H243425-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1950		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061415	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	107 %	71.5-134	4061415	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061319	MS	15-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061319	MS	15-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061319	MS	15-Jun-24	8015B

Surrogate: 1-Chlorooctane	91.3 %	48.2-134	4061319	MS	15-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	101 %	49.1-148	4061319	MS	15-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 31 @ 2-2.5**H243425-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	480		16.0	mg/kg	4	4061437	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134 4061415 JH 15-Jun-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061320	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061320	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061320	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane 96.5 % 48.2-134 4061320 MS 14-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148 4061320 MS 14-Jun-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 32 @ 2-2.5**H243425-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061415	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	106 %	71.5-134	4061415	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061320	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061320	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061320	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	97.0 %	48.2-134	4061320	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	98.0 %	49.1-148	4061320	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 36 @ 2-2.5**H243425-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	6400		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061415	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061415	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %		71.5-134	4061415	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061320	MS	14-Jun-24	8015B	
DRO >C10-C28*	282		10.0	mg/kg	1	4061320	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	107		10.0	mg/kg	1	4061320	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			101 %		48.2-134	4061320	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			99.5 %		49.1-148	4061320	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 37 @ 2-2.5**H243425-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7600		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			89.4 %		71.5-134	4061416	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	1300		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	463		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane			100 %		48.2-134	4061320	MS	15-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			110 %		49.1-148	4061320	MS	15-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 39 @ 2-2.5**H243425-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3000		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			89.0 %		71.5-134	4061416	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	1250		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	334		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane			108 %		48.2-134	4061320	MS	15-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			120 %		49.1-148	4061320	MS	15-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 40 @ 2-2.5**H243425-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2360		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B
Toluene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B
Total BTEX	<0.300	0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B

Surrogate: 4-Bromofluorobenzene (PID)	89.6 %	71.5-134	4061416	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B

Surrogate: 1-Chlorooctane	102 %	48.2-134	4061320	MS	15-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	104 %	49.1-148	4061320	MS	15-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 41 @ 2-2.5**H243425-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2120		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	96.0 %	71.5-134	4061416	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B
DRO >C10-C28*	41.4	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B
EXT DRO >C28-C36	11.2	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B

Surrogate: 1-Chlorooctane	106 %	48.2-134	4061320	MS	15-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	106 %	49.1-148	4061320	MS	15-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 47 @ 2-2.5**H243425-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	832		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.9 %	71.5-134	4061416	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B

Surrogate: 1-Chlorooctane	106 %	48.2-134	4061320	MS	15-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	109 %	49.1-148	4061320	MS	15-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 48 @ 2-2.5**H243425-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1300		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		90.4 %		71.5-134	4061416	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane		99.6 %		48.2-134	4061320	MS	15-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane		102 %		49.1-148	4061320	MS	15-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 49 @ 2-2.5**H243425-33 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2440		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	0.410		0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	GC-NC1
Total BTEX	0.410		0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134 4061416 JH 15-Jun-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	22.4		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	621		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	159		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane 113 % 48.2-134 4061320 MS 15-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 126 % 49.1-148 4061320 MS 15-Jun-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 50 @ 2-2.5**H243425-34 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	768		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			89.4 %		71.5-134	4061416	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	58.9		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	19.5		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane			94.9 %		48.2-134	4061320	MS	15-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			97.7 %		49.1-148	4061320	MS	15-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 52 @ 2-2.5**H243425-35 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	672		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		90.3 %		71.5-134	4061416	JH	15-Jun-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
Surrogate: 1-Chlorooctane		104 %		48.2-134	4061320	MS	15-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane		108 %		49.1-148	4061320	MS	15-Jun-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 53 @ 2-2.5**H243425-36 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	800		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			91.2 %		71.5-134	4061416	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane			105 %		48.2-134	4061320	MS	15-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			106 %		49.1-148	4061320	MS	15-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 59 @ 2-2.5**H243425-37 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2290		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.0 %	71.5-134	4061416	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B

Surrogate: 1-Chlorooctane	98.7 %	48.2-134	4061320	MS	15-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	96.9 %	49.1-148	4061320	MS	15-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 60 @ 2-2.5**H243425-38 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1600		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			90.8 %		71.5-134	4061416	JH	15-Jun-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
Surrogate: 1-Chlorooctane			103 %		48.2-134	4061320	MS	15-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane			104 %		49.1-148	4061320	MS	15-Jun-24	8015B	

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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 61 @ 2-2.5**H243425-39 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1540		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134 4061416 JH 15-Jun-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane 97.7 % 48.2-134 4061320 MS 15-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148 4061320 MS 15-Jun-24 8015B

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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 63 @ 2-2.5**H243425-40 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	944		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 71.5-134 4061416 JH 15-Jun-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane 104 % 48.2-134 4061320 MS 15-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 106 % 49.1-148 4061320 MS 15-Jun-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 64 @ 2-2.5**H243425-41 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	960		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.9 %	71.5-134	4061416	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B

Surrogate: 1-Chlorooctane	91.0 %	48.2-134	4061320	MS	15-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	93.2 %	49.1-148	4061320	MS	15-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 65 @ 2-2.5**H243425-42 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1800		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			89.6 %		71.5-134	4061416	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	13.9		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane			78.5 %		48.2-134	4061320	MS	15-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			79.5 %		49.1-148	4061320	MS	15-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 66 @ 2-2.5**H243425-43 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	352		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			90.5 %		71.5-134	4061416	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
DRO >C10-C28*	118		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	69.9		10.0	mg/kg	1	4061320	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane			109 %		48.2-134	4061320	MS	15-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			110 %		49.1-148	4061320	MS	15-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 71 @ 2-2.5**H243425-44 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2520		16.0	mg/kg	4	4061715	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.7 %	71.5-134	4061416	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	105 %	48.2-134	4061321	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	120 %	49.1-148	4061321	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 72 @ 2-2.5**H243425-45 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2120		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134 4061416 JH 15-Jun-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	
DRO >C10-C28*	27.2		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane 107 % 48.2-134 4061321 MS 14-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 121 % 49.1-148 4061321 MS 14-Jun-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 73 @ 2-2.5**H243425-46 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	992		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061416	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061416	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.1 %	71.5-134	4061416	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	111 %	48.2-134	4061321	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	127 %	49.1-148	4061321	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 74 @ 2-2.5**H243425-47 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2120		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	91.3 %	71.5-134	4061417	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	103 %	48.2-134	4061321	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	115 %	49.1-148	4061321	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 75 @ 2-2.5**H243425-48 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1180		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 71.5-134 4061417 JH 15-Jun-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane 102 % 48.2-134 4061321 MS 14-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 115 % 49.1-148 4061321 MS 14-Jun-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 77 @ 2-2.5**H243425-49 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.9 %	71.5-134	4061417	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	107 %	48.2-134	4061321	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	119 %	49.1-148	4061321	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 78 @ 2-2.5**H243425-50 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1570		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.5 %	71.5-134	4061417	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	102 %	48.2-134	4061321	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	114 %	49.1-148	4061321	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 84 @ 2-2.5**H243425-51 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2120		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			90.7 %		71.5-134	4061417	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	
DRO >C10-C28*	11.5		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			96.5 %		48.2-134	4061321	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			109 %		49.1-148	4061321	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 85 @ 2-2.5**H243425-52 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	800		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			90.6 %		71.5-134	4061417	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			104 %		48.2-134	4061321	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			117 %		49.1-148	4061321	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 86 @ 2-2.5**H243425-53 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1180		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.5 %	71.5-134	4061417	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	81.3 %	48.2-134	4061321	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	97.2 %	49.1-148	4061321	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 87 @ 2-2.5**H243425-54 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3320		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.1 %	71.5-134	4061417	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
DRO >C10-C28*	252	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
EXT DRO >C28-C36	51.1	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	94.9 %	48.2-134	4061321	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	112 %	49.1-148	4061321	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 88 @ 2-2.5**H243425-55 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1140		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.7 %	71.5-134	4061417	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	98.6 %	48.2-134	4061321	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	112 %	49.1-148	4061321	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 89 @ 2-2.5**H243425-56 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.5 %	71.5-134	4061417	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	108 %	48.2-134	4061321	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	123 %	49.1-148	4061321	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 91 @ 2-2.5**H243425-57 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2450		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	90.4 %	71.5-134	4061417	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061321	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	106 %	48.2-134	4061321	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	118 %	49.1-148	4061321	MS	14-Jun-24	8015B
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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 96 @ 2-2.5**H243425-58 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5120		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			89.8 %		71.5-134	4061417	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	
DRO >C10-C28*	967		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	241		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane			107 %		48.2-134	4061321	MS	15-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			129 %		49.1-148	4061321	MS	15-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 97 @ 2-2.5**H243425-59 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2880		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			90.2 %		71.5-134	4061417	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	
DRO >C10-C28*	286		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	83.3		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane			106 %		48.2-134	4061321	MS	15-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			127 %		49.1-148	4061321	MS	15-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 99 @ 2-2.5**H243425-60 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1650		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			90.7 %		71.5-134	4061417	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane			103 %		48.2-134	4061321	MS	15-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			117 %		49.1-148	4061321	MS	15-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 100 @ 2-2.5**H243425-61 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	89.4 %	71.5-134	4061417	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B

Surrogate: 1-Chlorooctane	98.8 %	48.2-134	4061321	MS	15-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	114 %	49.1-148	4061321	MS	15-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 101 @ 2-2.5**H243425-62 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	208		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		89.1 %		71.5-134	4061417	JH	15-Jun-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	
Surrogate: 1-Chlorooctane		96.8 %		48.2-134	4061321	MS	15-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane		111 %		49.1-148	4061321	MS	15-Jun-24	8015B	

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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 102 @ 2-2.5**H243425-63 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			88.2 %		71.5-134	4061417	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061321	MS	15-Jun-24	8015B	

Surrogate: 1-Chlorooctane			101 %		48.2-134	4061321	MS	15-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			114 %		49.1-148	4061321	MS	15-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 103 @ 2-2.5**H243425-64 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	864		16.0	mg/kg	4	4061725	HM	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		89.9 %		71.5-134	4061417	JH	15-Jun-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
Surrogate: 1-Chlorooctane		99.1 %		48.2-134	4061322	MS	14-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane		97.5 %		49.1-148	4061322	MS	14-Jun-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 108 @ 2-2.5**H243425-65 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3840		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 71.5-134 4061417 JH 15-Jun-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	342		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	101		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane 96.5 % 48.2-134 4061322 MS 14-Jun-24 8015B

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148 4061322 MS 14-Jun-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 109 @ 2-2.5**H243425-66 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4560		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061417	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061417	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			90.6 %		71.5-134	4061417	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	117		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	26.8		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			109 %		48.2-134	4061322	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			107 %		49.1-148	4061322	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 111 @ 2-2.5**H243425-67 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1810		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061418	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.8 %		71.5-134	4061418	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			106 %		48.2-134	4061322	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		49.1-148	4061322	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 112 @ 2-2.5**H243425-68 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5040		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061418	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.5 %		71.5-134	4061418	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			101 %		48.2-134	4061322	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			94.3 %		49.1-148	4061322	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 113 @ 2-2.5**H243425-69 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4000		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061418	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.3 %		71.5-134	4061418	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			94.9 %		48.2-134	4061322	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			90.1 %		49.1-148	4061322	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 118 @ 2-2.5**H243425-70 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5760		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061418	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.0 %		71.5-134	4061418	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	508		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	163		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			97.8 %		48.2-134	4061322	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			98.0 %		49.1-148	4061322	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 119 @ 2-2.5**H243425-71 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7060		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061418	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.6 %		71.5-134	4061418	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	250		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	73.2		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			101 %		48.2-134	4061322	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		49.1-148	4061322	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 120 @ 2-2.5**H243425-72 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3360		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061418	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.9 %		71.5-134	4061418	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	96.6		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	20.6		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			95.7 %		48.2-134	4061322	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			94.8 %		49.1-148	4061322	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 121 @ 2-2.5**H243425-73 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4720		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.3 %	71.5-134		4061418	JH	15-Jun-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
Surrogate: 1-Chlorooctane			104 %	48.2-134		4061322	MS	14-Jun-24	8015B	
Surrogate: 1-Chlorooctadecane			101 %	49.1-148		4061322	MS	14-Jun-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 127 @ 2-2.5**H243425-74 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4000		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061418	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.4 %		71.5-134	4061418	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			98.2 %		48.2-134	4061322	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			95.0 %		49.1-148	4061322	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 151 @ 2-2.5**H243425-75 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3920		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4061418	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.6 %		71.5-134	4061418	JH	15-Jun-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
DRO >C10-C28*	15.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B	

Surrogate: 1-Chlorooctane			101 %		48.2-134	4061322	MS	14-Jun-24	8015B	
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Surrogate: 1-Chlorooctadecane			97.8 %		49.1-148	4061322	MS	14-Jun-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

BH - 156 @ 2-2.5**H243425-76 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3520		16.0	mg/kg	4	4061716	AC	17-Jun-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4061418	JH	15-Jun-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4061418	JH	15-Jun-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.7 %	71.5-134	4061418	JH	15-Jun-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4061322	MS	14-Jun-24	8015B

Surrogate: 1-Chlorooctane	103 %	48.2-134	4061322	MS	14-Jun-24	8015B
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Surrogate: 1-Chlorooctadecane	98.7 %	49.1-148	4061322	MS	14-Jun-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061437 - 1:4 DI Water**Blank (4061437-BLK1)**

Prepared & Analyzed: 14-Jun-24

Chloride	ND	16.0	mg/kg
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LCS (4061437-BS1)

Prepared & Analyzed: 14-Jun-24

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (4061437-BSD1)

Prepared & Analyzed: 14-Jun-24

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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Batch 4061702 - 1:4 DI Water**Blank (4061702-BLK1)**

Prepared & Analyzed: 17-Jun-24

Chloride	ND	16.0	mg/kg
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LCS (4061702-BS1)

Prepared & Analyzed: 17-Jun-24

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (4061702-BSD1)

Prepared & Analyzed: 17-Jun-24

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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Batch 4061715 - 1:4 DI Water**Blank (4061715-BLK1)**

Prepared & Analyzed: 17-Jun-24

Chloride	ND	16.0	mg/kg
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LCS (4061715-BS1)

Prepared & Analyzed: 17-Jun-24

Chloride	416	16.0	mg/kg	400	104	80-120
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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061715 - 1:4 DI Water**LCS Dup (4061715-BSD1)**

Prepared & Analyzed: 17-Jun-24

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Batch 4061716 - 1:4 DI Water**Blank (4061716-BLK1)**

Prepared & Analyzed: 17-Jun-24

Chloride	ND	16.0	mg/kg							
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LCS (4061716-BS1)

Prepared & Analyzed: 17-Jun-24

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (4061716-BSD1)

Prepared & Analyzed: 17-Jun-24

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Batch 4061725 - 1:4 DI Water**Blank (4061725-BLK1)**

Prepared & Analyzed: 17-Jun-24

Chloride	ND	16.0	mg/kg							
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LCS (4061725-BS1)

Prepared & Analyzed: 17-Jun-24

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (4061725-BSD1)

Prepared & Analyzed: 17-Jun-24

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061332 - Volatiles**Blank (4061332-BLK1)**

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0588		mg/kg	0.0500		118	71.5-134			

LCS (4061332-BS1)

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

Benzene	1.79	0.050	mg/kg	2.00		89.6	82.8-130			
Toluene	1.84	0.050	mg/kg	2.00		92.0	86-128			
Ethylbenzene	1.94	0.050	mg/kg	2.00		97.1	85.9-128			
m,p-Xylene	3.88	0.100	mg/kg	4.00		96.9	89-129			
o-Xylene	1.95	0.050	mg/kg	2.00		97.4	86.1-125			
Total Xylenes	5.82	0.150	mg/kg	6.00		97.1	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0550		mg/kg	0.0500		110	71.5-134			

LCS Dup (4061332-BSD1)

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

Benzene	1.92	0.050	mg/kg	2.00		95.8	82.8-130	6.69	15.8	
Toluene	2.00	0.050	mg/kg	2.00		100	86-128	8.36	15.9	
Ethylbenzene	2.11	0.050	mg/kg	2.00		106	85.9-128	8.37	16	
m,p-Xylene	4.20	0.100	mg/kg	4.00		105	89-129	8.12	16.2	
o-Xylene	2.10	0.050	mg/kg	2.00		105	86.1-125	7.24	16.7	
Total Xylenes	6.30	0.150	mg/kg	6.00		105	88.2-128	7.83	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0554		mg/kg	0.0500		111	71.5-134			

Batch 4061415 - Volatiles**Blank (4061415-BLK1)**

Prepared & Analyzed: 14-Jun-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061415 - Volatiles**Blank (4061415-BLK1)**

Prepared & Analyzed: 14-Jun-24

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0545		mg/kg	0.0500		109	71.5-134			

LCS (4061415-BS1)

Prepared & Analyzed: 14-Jun-24

Benzene	1.92	0.050	mg/kg	2.00		96.0	82.8-130			
Toluene	1.91	0.050	mg/kg	2.00		95.5	86-128			
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.8	85.9-128			
m,p-Xylene	3.75	0.100	mg/kg	4.00		93.7	89-129			
o-Xylene	1.89	0.050	mg/kg	2.00		94.5	86.1-125			
Total Xylenes	5.64	0.150	mg/kg	6.00		94.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.9	71.5-134			

LCS Dup (4061415-BS1)

Prepared & Analyzed: 14-Jun-24

Benzene	2.08	0.050	mg/kg	2.00		104	82.8-130	8.13	15.8	
Toluene	2.02	0.050	mg/kg	2.00		101	86-128	5.84	15.9	
Ethylbenzene	2.05	0.050	mg/kg	2.00		103	85.9-128	6.83	16	
m,p-Xylene	4.03	0.100	mg/kg	4.00		101	89-129	7.20	16.2	
o-Xylene	2.04	0.050	mg/kg	2.00		102	86.1-125	7.45	16.7	
Total Xylenes	6.07	0.150	mg/kg	6.00		101	88.2-128	7.28	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.6	71.5-134			

Batch 4061416 - Volatiles**Blank (4061416-BLK1)**

Prepared & Analyzed: 14-Jun-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		91.8	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061416 - Volatiles**LCS (4061416-BS1)**

Prepared & Analyzed: 14-Jun-24

Benzene	1.86	0.050	mg/kg	2.00		92.8	82.8-130			
Toluene	1.83	0.050	mg/kg	2.00		91.5	86-128			
Ethylbenzene	1.86	0.050	mg/kg	2.00		93.0	85.9-128			
m,p-Xylene	3.61	0.100	mg/kg	4.00		90.1	89-129			
o-Xylene	1.77	0.050	mg/kg	2.00		88.7	86.1-125			
Total Xylenes	5.38	0.150	mg/kg	6.00		89.7	88.2-128			

Surrogate: 4-Bromofluorobenzene (PID)

0.0464

mg/kg

0.0500

92.9

71.5-134

LCS Dup (4061416-BS1)

Prepared & Analyzed: 14-Jun-24

Benzene	1.96	0.050	mg/kg	2.00		98.1	82.8-130	5.58	15.8	
Toluene	1.94	0.050	mg/kg	2.00		97.0	86-128	5.80	15.9	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	85.9-128	5.87	16	
m,p-Xylene	3.84	0.100	mg/kg	4.00		96.0	89-129	6.25	16.2	
o-Xylene	1.88	0.050	mg/kg	2.00		94.0	86.1-125	5.78	16.7	
Total Xylenes	5.72	0.150	mg/kg	6.00		95.3	88.2-128	6.09	16.3	

Surrogate: 4-Bromofluorobenzene (PID)

0.0458

mg/kg

0.0500

91.5

71.5-134

Batch 4061417 - Volatiles**Blank (4061417-BLK1)**

Prepared: 14-Jun-24 Analyzed: 15-Jun-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							

Surrogate: 4-Bromofluorobenzene (PID)

ND

mg/kg

0.0500

91.7

71.5-134

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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061417 - Volatiles**LCS (4061417-BS1)**

Prepared: 14-Jun-24 Analyzed: 15-Jun-24

Benzene	1.85	0.050	mg/kg	2.00		92.5	82.8-130			
Toluene	1.84	0.050	mg/kg	2.00		92.1	86-128			
Ethylbenzene	1.90	0.050	mg/kg	2.00		94.9	85.9-128			
m,p-Xylene	3.71	0.100	mg/kg	4.00		92.8	89-129			
o-Xylene	1.81	0.050	mg/kg	2.00		90.6	86.1-125			
Total Xylenes	5.52	0.150	mg/kg	6.00		92.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0477		mg/kg	0.0500		95.4	71.5-134			

LCS Dup (4061417-BS1)

Prepared: 14-Jun-24 Analyzed: 15-Jun-24

Benzene	1.97	0.050	mg/kg	2.00		98.6	82.8-130	6.31	15.8	
Toluene	1.94	0.050	mg/kg	2.00		97.2	86-128	5.29	15.9	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.4	85.9-128	3.60	16	
m,p-Xylene	3.84	0.100	mg/kg	4.00		96.1	89-129	3.50	16.2	
o-Xylene	1.89	0.050	mg/kg	2.00		94.5	86.1-125	4.31	16.7	
Total Xylenes	5.73	0.150	mg/kg	6.00		95.6	88.2-128	3.76	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0460		mg/kg	0.0500		92.0	71.5-134			

Batch 4061418 - Volatiles**Blank (4061418-BLK1)**

Prepared: 14-Jun-24 Analyzed: 15-Jun-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.1	71.5-134			

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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061418 - Volatiles**LCS (4061418-BS1)**

Prepared: 14-Jun-24 Analyzed: 15-Jun-24

Benzene	1.80	0.050	mg/kg	2.00		89.9	82.8-130			
Toluene	1.81	0.050	mg/kg	2.00		90.6	86-128			
Ethylbenzene	1.73	0.050	mg/kg	2.00		86.3	85.9-128			
m,p-Xylene	3.46	0.100	mg/kg	4.00		86.4	89-129			BS-3
o-Xylene	1.92	0.050	mg/kg	2.00		95.8	86.1-125			
Total Xylenes	5.37	0.150	mg/kg	6.00		89.5	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.7	71.5-134			

LCS Dup (4061418-BSD1)

Prepared: 14-Jun-24 Analyzed: 15-Jun-24

Benzene	1.83	0.050	mg/kg	2.00		91.5	82.8-130	1.74	15.8	
Toluene	1.85	0.050	mg/kg	2.00		92.7	86-128	2.28	15.9	
Ethylbenzene	1.76	0.050	mg/kg	2.00		88.0	85.9-128	2.05	16	
m,p-Xylene	3.53	0.100	mg/kg	4.00		88.3	89-129	2.18	16.2	BS-3
o-Xylene	1.96	0.050	mg/kg	2.00		98.0	86.1-125	2.29	16.7	
Total Xylenes	5.49	0.150	mg/kg	6.00		91.5	88.2-128	2.22	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0496		mg/kg	0.0500		99.1	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061318 - General Prep - Organics**Blank (4061318-BLK1)**

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	58.1		mg/kg	50.0		116	48.2-134			
Surrogate: 1-Chlorooctadecane	58.1		mg/kg	50.0		116	49.1-148			

LCS (4061318-BS1)

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	188	10.0	mg/kg	200		94.2	66.4-123			
DRO >C10-C28	173	10.0	mg/kg	200		86.6	66.5-118			
Total TPH C6-C28	362	10.0	mg/kg	400		90.4	77.6-123			
Surrogate: 1-Chlorooctane	54.3		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	55.6		mg/kg	50.0		111	49.1-148			

LCS Dup (4061318-BS1)

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	196	10.0	mg/kg	200		98.0	66.4-123	4.00	17.7	
DRO >C10-C28	180	10.0	mg/kg	200		90.2	66.5-118	4.02	21	
Total TPH C6-C28	376	10.0	mg/kg	400		94.1	77.6-123	4.01	18.5	
Surrogate: 1-Chlorooctane	62.1		mg/kg	50.0		124	48.2-134			
Surrogate: 1-Chlorooctadecane	63.6		mg/kg	50.0		127	49.1-148			

Batch 4061319 - General Prep - Organics**Blank (4061319-BLK1)**

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.5	48.2-134			
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	49.1-148			

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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061319 - General Prep - Organics**LCS (4061319-BS1)**

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	184	10.0	mg/kg	200		92.2	66.4-123		
DRO >C10-C28	179	10.0	mg/kg	200		89.3	66.5-118		
Total TPH C6-C28	363	10.0	mg/kg	400		90.7	77.6-123		
Surrogate: 1-Chlorooctane	46.3		mg/kg	50.0		92.6	48.2-134		
Surrogate: 1-Chlorooctadecane	46.5		mg/kg	50.0		93.1	49.1-148		

LCS Dup (4061319-BS1)

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	186	10.0	mg/kg	200		92.9	66.4-123	0.808	17.7
DRO >C10-C28	195	10.0	mg/kg	200		97.4	66.5-118	8.66	21
Total TPH C6-C28	381	10.0	mg/kg	400		95.2	77.6-123	4.75	18.5
Surrogate: 1-Chlorooctane	52.3		mg/kg	50.0		105	48.2-134		
Surrogate: 1-Chlorooctadecane	54.9		mg/kg	50.0		110	49.1-148		

Batch 4061320 - General Prep - Organics**Blank (4061320-BLK1)**

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0		102	48.2-134		
Surrogate: 1-Chlorooctadecane	50.1		mg/kg	50.0		100	49.1-148		

LCS (4061320-BS1)

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	184	10.0	mg/kg	200		92.0	66.4-123		
DRO >C10-C28	206	10.0	mg/kg	200		103	66.5-118		
Total TPH C6-C28	390	10.0	mg/kg	400		97.5	77.6-123		
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.3	48.2-134		
Surrogate: 1-Chlorooctadecane	47.4		mg/kg	50.0		94.8	49.1-148		

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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061320 - General Prep - Organics**LCS Dup (4061320-BSD1)**

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	190	10.0	mg/kg	200		94.9	66.4-123	3.07	17.7	
DRO >C10-C28	210	10.0	mg/kg	200		105	66.5-118	1.85	21	
Total TPH C6-C28	399	10.0	mg/kg	400		99.9	77.6-123	2.43	18.5	
Surrogate: 1-Chlorooctane	54.4		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0		107	49.1-148			

Batch 4061321 - General Prep - Organics**Blank (4061321-BLK1)**

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.2		mg/kg	50.0		104	48.2-134			
Surrogate: 1-Chlorooctadecane	56.3		mg/kg	50.0		113	49.1-148			

LCS (4061321-BS1)

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	186	10.0	mg/kg	200		93.2	66.4-123			
DRO >C10-C28	205	10.0	mg/kg	200		103	66.5-118			
Total TPH C6-C28	392	10.0	mg/kg	400		97.9	77.6-123			
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	48.2-134			
Surrogate: 1-Chlorooctadecane	51.3		mg/kg	50.0		103	49.1-148			

LCS Dup (4061321-BSD1)

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	192	10.0	mg/kg	200		96.0	66.4-123	2.93	17.7	
DRO >C10-C28	212	10.0	mg/kg	200		106	66.5-118	3.03	21	
Total TPH C6-C28	404	10.0	mg/kg	400		101	77.6-123	2.98	18.5	
Surrogate: 1-Chlorooctane	55.3		mg/kg	50.0		111	48.2-134			
Surrogate: 1-Chlorooctadecane	57.8		mg/kg	50.0		116	49.1-148			

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Analytical Results For:

BTA Oil Producers
104 South Pecos
Midland TX, 79701

Project: HARROUN WEST BATTERY - FIRE
Project INCIDENT 148
Project Manager: RAY RAMOS
Fax To: (432) 683-0312

Reported:
21-Jun-24 10:04

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061322 - General Prep - Organics**Blank (4061322-BLK1)**

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.4		mg/kg	50.0		105	48.2-134			
Surrogate: 1-Chlorooctadecane	46.9		mg/kg	50.0		93.9	49.1-148			

LCS (4061322-BS1)

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	192	10.0	mg/kg	200		96.0	66.4-123			
DRO >C10-C28	198	10.0	mg/kg	200		98.8	66.5-118			
Total TPH C6-C28	390	10.0	mg/kg	400		97.4	77.6-123			
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		96.9	48.2-134			
Surrogate: 1-Chlorooctadecane	44.8		mg/kg	50.0		89.6	49.1-148			

LCS Dup (4061322-BS1)

Prepared: 13-Jun-24 Analyzed: 14-Jun-24

GRO C6-C10	194	10.0	mg/kg	200		97.1	66.4-123	1.15	17.7	
DRO >C10-C28	198	10.0	mg/kg	200		99.0	66.5-118	0.231	21	
Total TPH C6-C28	392	10.0	mg/kg	400		98.1	77.6-123	0.684	18.5	
Surrogate: 1-Chlorooctane	54.1		mg/kg	50.0		108	48.2-134			
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.2	49.1-148			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and all other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Page _____ of _____

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire

Project #: 432-313-1288

Project Location: Loving, Lea County, NM
(county, state)

Project #: Incident 148

Invoice to: Ray Ramos, Incident 148

Sampler Name:

Receiving Laboratory:

Sampler Signature:

Cardinal Laboratory

Comments:

Reference Incident 148 on invoice

ANALYSIS REQUEST

H243425		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Relinquished by: *Ray Ramos* Date: 6/12/24 Time: 4:09 PM

Relinquished by: *AD Ramos* Date: 6/12/24 Time: 1715

Received by: _____ Date: _____ Time: _____

LAB USE ONLY

Sample Temperature: *5.8°C*

REMARKS: *Standard TAT*

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Page 94 of 100

Released to Imaging: 10/11/2024 3:39:45 PM

[illegible]

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC
Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire
432-313-1288

Project Location: Loving, Lea County, NM
Project #: Incident 148

Invoice to: Ray Ramos, Incident 148
Sampler Name:

Receiving Laboratory: Cardinal Laboratory
Sampler Signature:

Comments: Reference Incident 148 on invoice

<div>LAB USE ONLY</div>	H243428 LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (GRO - Chloride																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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21	BH - 28	6/11	11:20	X			X		1		X	X	X	X	X	X	X	X	X
22	BH - 29	6/11	11:30	X			X		1		X	X	X	X	X	X	X	X	X
23	BH - 30	6/11	11:40	X			X		1		X	X	X	X	X	X	X	X	X
24	BH - 31	6/11	11:50	X			X		1		X	X	X	X	X	X	X	X	X
25	BH - 32	6/11	12:00	X			X		1		X	X	X	X	X	X	X	X	X
26	BH - 34	6/11	12:10	X			X		1		X	X	X	X	X	X	X	X	X
27	BH - 37	6/11	12:20	X			X		1		X	X	X	X	X	X	X	X	X
28	BH - 39	6/11	12:30	X			X		1		X	X	X	X	X	X	X	X	X
29	BH - 40	6/11	12:40	X			X		1		X	X	X	X	X	X	X	X	X
30	BH - 49	6/11	12:50	X			X		1		X	X	X	X	X	X	X	X	X

Relinquished by: *Ray Ramos* Date: 6/12/24 Time: 4:27P
Received by: *Ray Ramos* Date: 6/12/24 Time: 1:15P

Relinquished by: _____ Date: _____ Time: _____
Received by: _____ Date: _____ Time: _____

LAB USE ONLY

Sample Temperature: 5.8°C

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

#140

ORIGINAL COPY

Released to Imaging: 10/11/2024 3:39:45 PM

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Page _____ of _____

Client Name:	BTA Oil Producers, LLC		Site Manager:	Ray Ramos
Project Name:	Harroun Ranch Battery West Fire			432-313-1288
Project Location: (county, state)	Loving, Lea County, NM		Project #:	Incident 148
Invoice to:	Ray Ramos, Incident 148		Sampler Name:	
Receiving Laboratory:	Cardinal Laboratory		Sampler Signature:	
Comments:	Reference Incident 148 on invoice			

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
											YEAR 2024
U1	BH - 14	6/11	2:40	X				X		1	
U2	BH - 65		2:50	X				X		1	
U3	BH - 64		3:00	X				X		1	
U4	BH - 71		3:10	X				X		1	
U5	BH - 72		3:20	X				X		1	
U6	BH - 73		3:30	X				X		1	
U7	BH - 74		3:40	X				X		1	
U8	BH - 75		3:50	X				X		1	
U9	BH - 76		4:00	X				X		1	
SD	BH - 77		4:10	X				X		1	

Sample Temperature 5.8°C 14.0	LAB USE ONLY		BTX 8021B	
			TPH 8015M (GRO)	
			Chloride	
REMARKS: Standard TAT				
<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report				

ORIGINAL COPY

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager:
Ray Ramos

Project Name: Harroun Ranch Battery West Fire

432-313-1288

Project Location:
(county, state) Loving, Lea County, NM

Project #: Incident 148

Ray Ramos, Incident 148

sample name:

Receiving Laboratory:

Sampler Signature:

Comments:

Reference Incident 148 on invoice

LAB # 11243425

SAMPLE IDENTIFICATION

(LAB USE ONLY)

11243425		SAMPLE IDENTIFICATION		SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (GRO - Chloride)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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ANALYSIS REQUEST

Hold

Relinquished by:	Date:	Time:
<i>Lee M. St</i>	<i>6/13/21</i>	<i>4:59</i>

Received by: ADG/UCS Date: 10.17.24 Time: 1715

Reinquished by: _____ Date: _____ Time: _____

Received by:	Date:	Time:
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LAB USE ONLY

REMARKS: Standard TAT

585

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

ORIGINAL COPY

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire

Project #: 432-313-1288

Project Location: Loving, Lea County, NM
(county, state)

Project #: Incident 148

Invoice to: Ray Ramos, Incident 148

Sampler Name:

Receiving Laboratory:

Cardinal Laboratory



Sampler Signature:

Comments:

Reference Incident 148 on invoice

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (GRO - Chloride																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Relinquished by: 	Date: 6/12/24	Time: 9:51:10	Received by: 	Date: 10/12/24	Time: 17:15
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS: Standard TAT
Sample Temperature: 5.8°C	<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr
	<input type="checkbox"/> Rush Charges Authorized
	<input type="checkbox"/> Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire

432-313-1288

Project Location: Loving, Lea County, NM
(county, state)

Project #: Incident 148

Invoice to: Ray Ramos, Incident 148

Sampler Name:

Receiving Laboratory:

Cardinal Laboratory

Sampler Signature:

Comments:

Reference Incident 148 on invoice

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (GRO - Chloride)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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Relinquished by: [Signature]

Date: 10/12/24

Relinquished by: [Signature]

Date: 10/12/24

Relinquished by: [Signature]

Date: 10/12/24

Relinquished by: [Signature]

Date: 10/12/24

Received by: [Signature]

Date: 10/12/24

Time: 1715

Sample Temperature: 58°C

REMARKS: Standard Test

Special Report Limits or TRRP Report

ORIGINAL COPY



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 20, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 06/19/24 7:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 83 @ 3-3.5 (H243585-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.5	2.00	4.20		
Toluene*	<0.050	0.050	06/19/2024	ND	1.96	97.9	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.85	92.7	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.78	96.3	6.00	2.31		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	21.1	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 56 @ 3-3.5 (H243585-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.5	2.00	4.20		
Toluene*	<0.050	0.050	06/19/2024	ND	1.96	97.9	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.85	92.7	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.78	96.3	6.00	2.31		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441		
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	206	103	200	2.13		
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND						

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 57 @ 3-3.5 (H243585-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.5	2.00	4.20		
Toluene*	<0.050	0.050	06/19/2024	ND	1.96	97.9	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.85	92.7	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.78	96.3	6.00	2.31		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 58 @ 3-3.5 (H243585-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.5	2.00	4.20		
Toluene*	<0.050	0.050	06/19/2024	ND	1.96	97.9	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.85	92.7	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.78	96.3	6.00	2.31		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 67 @ 3-3.5 (H243585-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.5	2.00	4.20	
Toluene*	<0.050	0.050	06/19/2024	ND	1.96	97.9	2.00	2.96	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.85	92.7	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.78	96.3	6.00	2.31	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 68 @ 3-3.5 (H243585-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.5	2.00	4.20		
Toluene*	<0.050	0.050	06/19/2024	ND	1.96	97.9	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.85	92.7	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.78	96.3	6.00	2.31		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 69 @ 3-3.5 (H243585-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.5	2.00	4.20		
Toluene*	<0.050	0.050	06/19/2024	ND	1.96	97.9	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.85	92.7	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.78	96.3	6.00	2.31		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441		
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	206	103	200	2.13		
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND						

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 70 @ 3-3.5 (H243585-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.5	2.00	4.20	
Toluene*	<0.050	0.050	06/19/2024	ND	1.96	97.9	2.00	2.96	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.85	92.7	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.78	96.3	6.00	2.31	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	06/20/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	140	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	42.7	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 80 @ 3-3.5 (H243585-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.5	2.00	4.20	
Toluene*	<0.050	0.050	06/19/2024	ND	1.96	97.9	2.00	2.96	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.85	92.7	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.78	96.3	6.00	2.31	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	06/20/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	110	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	30.3	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 81 @ 3-3.5 (H243585-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.5	2.00	4.20		
Toluene*	<0.050	0.050	06/19/2024	ND	1.96	97.9	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.85	92.7	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.78	96.3	6.00	2.31		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441		
DRO >C10-C28*	36.2	10.0	06/19/2024	ND	206	103	200	2.13		
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND						

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 92 @ 3-3.5 (H243585-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.97	98.5	2.00	4.20		
Toluene*	<0.050	0.050	06/19/2024	ND	1.96	97.9	2.00	2.96		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.85	92.7	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.78	96.3	6.00	2.31		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	320	10.0	06/20/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	194	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 145 @ 3-3.5 (H243585-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5		
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 94 @ 3-3.5 (H243585-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5		
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	06/20/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	72.5	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	17.7	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 95 @ 3-3.5 (H243585-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5		
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	06/20/2024	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	118	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	35.9	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 104 @ 3-3.5 (H243585-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5		
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	06/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441		
DRO >C10-C28*	538	10.0	06/19/2024	ND	206	103	200	2.13		
EXT DRO >C28-C36	133	10.0	06/19/2024	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 106 @ 3-3.5 (H243585-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5		
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	06/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	28.3	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	12.8	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 107 @ 3-3.5 (H243585-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5		
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3560	16.0	06/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	134	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	49.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 117 @ 3-3.5 (H243585-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5		
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	06/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 122 @ 3-3.5 (H243585-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	06/20/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	1220	10.0	06/20/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	229	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 144 @ 3-3.5 (H243585-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5	
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6	
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4	
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3	
Total BTEX	<0.300	0.300	06/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	06/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	194	97.2	200	0.441	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	206	103	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 155 @ 3-3.5 (H243585-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5		
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	06/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/19/2024	Sampling Date:	06/18/2024
Reported:	06/20/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 159 @ 3-3.5 (H243585-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2024	ND	1.67	83.4	2.00	15.5		
Toluene*	<0.050	0.050	06/19/2024	ND	1.78	88.8	2.00	12.6		
Ethylbenzene*	<0.050	0.050	06/19/2024	ND	1.86	93.2	2.00	11.4		
Total Xylenes*	<0.150	0.150	06/19/2024	ND	5.57	92.9	6.00	11.3		
Total BTEX	<0.300	0.300	06/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	06/20/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/19/2024	ND	198	99.1	200	2.10		
DRO >C10-C28*	<10.0	10.0	06/19/2024	ND	182	90.8	200	1.96		
EXT DRO >C28-C36	<10.0	10.0	06/19/2024	ND						

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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Released to Imaging: 10/11/2024 3:39:45 PM



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 21, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 06/20/24 16:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 62 @ 0-2' (H243671-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2024	ND	1.93	96.7	2.00	11.1	
Toluene*	<0.050	0.050	06/20/2024	ND	1.87	93.5	2.00	9.77	
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	1.82	91.1	2.00	9.48	
Total Xylenes*	<0.150	0.150	06/20/2024	ND	5.81	96.9	6.00	9.69	
Total BTX	<0.300	0.300	06/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	06/21/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	201	100	200	1.11	
DRO >C10-C28*	24.6	10.0	06/21/2024	ND	192	96.1	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 61.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 79 @ 0-2' (H243671-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2024	ND	1.93	96.7	2.00	11.1		
Toluene*	<0.050	0.050	06/20/2024	ND	1.87	93.5	2.00	9.77		
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	1.82	91.1	2.00	9.48		
Total Xylenes*	<0.150	0.150	06/20/2024	ND	5.81	96.9	6.00	9.69		
Total BTEX	<0.300	0.300	06/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	976	16.0	06/21/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	176	87.9	200	2.10		
DRO >C10-C28*	462	10.0	06/20/2024	ND	177	88.3	200	5.35	QM-07, QR-03	
EXT DRO >C28-C36	233	10.0	06/20/2024	ND						

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 125 @ 0-2' (H243671-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2024	ND	1.93	96.7	2.00	11.1		
Toluene*	<0.050	0.050	06/20/2024	ND	1.87	93.5	2.00	9.77		
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	1.82	91.1	2.00	9.48		
Total Xylenes*	<0.150	0.150	06/20/2024	ND	5.81	96.9	6.00	9.69		
Total BTEX	<0.300	0.300	06/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	06/21/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	30.0	10.0	06/20/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 126 @ 0-2' (H243671-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2024	ND	1.93	96.7	2.00	11.1		
Toluene*	<0.050	0.050	06/20/2024	ND	1.87	93.5	2.00	9.77		
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	1.82	91.1	2.00	9.48		
Total Xylenes*	<0.150	0.150	06/20/2024	ND	5.81	96.9	6.00	9.69		
Total BTEX	<0.300	0.300	06/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	06/21/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 132 @ 0-2' (H243671-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2024	ND	1.93	96.7	2.00	11.1		
Toluene*	<0.050	0.050	06/20/2024	ND	1.87	93.5	2.00	9.77		
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	1.82	91.1	2.00	9.48		
Total Xylenes*	<0.150	0.150	06/20/2024	ND	5.81	96.9	6.00	9.69		
Total BTEX	<0.300	0.300	06/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2370	16.0	06/21/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	136	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	54.1	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 133 @ 0-2' (H243671-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2024	ND	1.93	96.7	2.00	11.1		
Toluene*	<0.050	0.050	06/20/2024	ND	1.87	93.5	2.00	9.77		
Ethylbenzene*	<0.050	0.050	06/20/2024	ND	1.82	91.1	2.00	9.48		
Total Xylenes*	<0.150	0.150	06/20/2024	ND	5.81	96.9	6.00	9.69		
Total BTEX	<0.300	0.300	06/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3640	16.0	06/21/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	53.0	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	11.6	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 91.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 134 @ 0-2' (H243671-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2024	ND	1.93	96.7	2.00	11.1		
Toluene*	<0.050	0.050	06/21/2024	ND	1.87	93.5	2.00	9.77		
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.82	91.1	2.00	9.48		
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.81	96.9	6.00	9.69		
Total BTEX	<0.300	0.300	06/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	06/21/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	35.7	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 139 @ 0-2' (H243671-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2024	ND	1.93	96.7	2.00	11.1		
Toluene*	<0.050	0.050	06/21/2024	ND	1.87	93.5	2.00	9.77		
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.82	91.1	2.00	9.48		
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.81	96.9	6.00	9.69		
Total BTEX	<0.300	0.300	06/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	06/21/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	25.4	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 140 @ 0-2' (H243671-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2024	ND	1.93	96.7	2.00	11.1		
Toluene*	<0.050	0.050	06/21/2024	ND	1.87	93.5	2.00	9.77		
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	1.82	91.1	2.00	9.48		
Total Xylenes*	<0.150	0.150	06/21/2024	ND	5.81	96.9	6.00	9.69		
Total BTEX	<0.300	0.300	06/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4280	16.0	06/21/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	59.9	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	13.1	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 142 @ 0-2' (H243671-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	2.07	103	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2024	ND	2.17	108	2.00	3.35	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.15	107	2.00	3.96	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.57	109	6.00	3.94	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	06/21/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	166	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	78.9	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 146 @ 0-2' (H243671-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	2.07	103	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2024	ND	2.17	108	2.00	3.35	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.15	107	2.00	3.96	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.57	109	6.00	3.94	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	06/21/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	52.7	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	13.6	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 147 @ 0-2' (H243671-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2024	ND	2.07	103	2.00	2.76		
Toluene*	<0.050	0.050	06/21/2024	ND	2.17	108	2.00	3.35		
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.15	107	2.00	3.96		
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.57	109	6.00	3.94		
Total BTEX	<0.300	0.300	06/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	06/21/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	68.8	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 148 @ 0-2' (H243671-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2024	ND	2.07	103	2.00	2.76		
Toluene*	<0.050	0.050	06/21/2024	ND	2.17	108	2.00	3.35		
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.15	107	2.00	3.96		
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.57	109	6.00	3.94		
Total BTEX	<0.300	0.300	06/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	06/21/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	40.9	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 149 @ 0-2' (H243671-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2024	ND	2.07	103	2.00	2.76		
Toluene*	<0.050	0.050	06/21/2024	ND	2.17	108	2.00	3.35		
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.15	107	2.00	3.96		
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.57	109	6.00	3.94		
Total BTEX	<0.300	0.300	06/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	06/21/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	<10.0	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 152 @ 0-2' (H243671-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2024	ND	2.07	103	2.00	2.76	
Toluene*	<0.050	0.050	06/21/2024	ND	2.17	108	2.00	3.35	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.15	107	2.00	3.96	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.57	109	6.00	3.94	
Total BTEX	<0.300	0.300	06/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	06/21/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	127	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	46.2	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/20/2024	Sampling Date:	06/20/2024
Reported:	06/21/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 153 @ 0-2' (H243671-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2024	ND	2.07	103	2.00	2.76		
Toluene*	<0.050	0.050	06/21/2024	ND	2.17	108	2.00	3.35		
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.15	107	2.00	3.96		
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.57	109	6.00	3.94		
Total BTEx	<0.300	0.300	06/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	06/21/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2024	ND	176	87.9	200	2.10	
DRO >C10-C28*	124	10.0	06/21/2024	ND	177	88.3	200	5.35	
EXT DRO >C28-C36	45.7	10.0	06/21/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Page _____ of _____

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name:

BTA Oil Producers, LLC

Site Manager:

Ray Ramos

Project Name:

Harroun Ranch Battery West Fire

432-313-1288

Project Location:

(county, state) Loving, Lea County, NM

Project #:

Incident 148

Invoice to:

Ray Ramos, Incident 148

Sampler Name:

Receiving Laboratory:

Cardinal Laboratory

Sampler Signature:

Comments:

Reference Incident 148 on invoice

ANALYSIS REQUEST

LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	BTX 8021B			TPH 8015M (GRO - DR Chloride)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Inquired by: *[Signature]*
Date: 8/20/24 Time: 4:17

Received by: *[Signature]*
Date: 8/20/24 Time: 10:23

LAB USE ONLY
Sample Temperature: 1.3°C
REMARKS: Standard TAT
☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

#140

Analysis Request of Chain of Custody Record

Page _____ of _____

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name:

BTA Oil Producers, LLC

Site Manager:

Ray Ramos

Project Name:

Harroun Ranch Battery West Fire

432-313-1288

Project Location:

(county, state) Loving, Lea County, NM

Project #:

Incident 148

Invoice to:

Ray Ramos, Incident 148

Sampler Name:

Receiving Laboratory:

Cardinal Laboratory

Sampler Signature:

Comments:

Reference Incident 148 on invoice

ANALYSIS REQUEST

LAB #	LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (GRO - DRG Chloride																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 25, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 06/24/24 8:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 2 @ 4-4.5' (H243718-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68	
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557	
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600	QM-07
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416	
Total BTX	<0.300	0.300	06/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39		
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29		
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 3 @ 4-4.5' (H243718-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39		
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29		
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 5 @ 4-4.5' (H243718-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 9 @ 6-6.5' (H243718-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39		
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29		
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 14 @ 4-4.5' (H243718-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 15 @ 4-4.5' (H243718-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 25 @ 4-4.5' (H243718-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEx	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 43 @ 4-4.5' (H243718-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2190	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 51 @ 4-4.5' (H243718-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68	
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557	
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600	
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416	
Total BTEX	<0.300	0.300	06/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 54 @ 4-4.5' (H243718-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 76 @ 4-4.5' (H243718-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEx	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 87 @ 4-4.5' (H243718-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 97 @ 4-4.5' (H243718-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 98 @ 4-4.5' (H243718-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	06/24/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39		
DRO >C10-C28*	12.6	10.0	06/24/2024	ND	177	88.5	200	4.29		
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 108 @ 4-4.5' (H243718-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39		
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29		
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 109 @ 4-4.5' (H243718-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEx	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 112 @ 4-4.5' (H243718-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 113 @ 4-4.5' (H243718-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 118 @ 4-4.5' (H243718-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEx	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 119 @ 4-4.5' (H243718-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	2.02	101	2.00	2.68		
Toluene*	<0.050	0.050	06/24/2024	ND	1.97	98.4	2.00	0.557		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	2.01	100	2.00	0.600		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	6.16	103	6.00	0.416		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	181	90.4	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	177	88.5	200	4.29	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 127 @ 4-4.5' (H243718-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	11.5		
Toluene*	<0.050	0.050	06/24/2024	ND	1.83	91.3	2.00	5.68		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	1.86	92.9	2.00	2.59		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.44	90.7	6.00	2.28		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2690	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 161 @ 4-4.5' (H243718-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	11.5		
Toluene*	<0.050	0.050	06/24/2024	ND	1.83	91.3	2.00	5.68		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	1.86	92.9	2.00	2.59		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.44	90.7	6.00	2.28		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 3A @ 0-2' (H243718-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	11.5		
Toluene*	<0.050	0.050	06/24/2024	ND	1.83	91.3	2.00	5.68		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	1.86	92.9	2.00	2.59		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.44	90.7	6.00	2.28		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 4W @ 4-4.5' (H243718-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	11.5		
Toluene*	<0.050	0.050	06/24/2024	ND	1.83	91.3	2.00	5.68		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	1.86	92.9	2.00	2.59		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.44	90.7	6.00	2.28		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 5 @ 4-4.5' (H243718-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	11.5		
Toluene*	<0.050	0.050	06/24/2024	ND	1.83	91.3	2.00	5.68		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	1.86	92.9	2.00	2.59		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.44	90.7	6.00	2.28		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	61.1	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 6A @ 0-2' (H243718-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	11.5		
Toluene*	<0.050	0.050	06/24/2024	ND	1.83	91.3	2.00	5.68		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	1.86	92.9	2.00	2.59		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.44	90.7	6.00	2.28		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2530	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	712	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	200	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 161 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 8A @ 4-4.5' (H243718-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	11.5		
Toluene*	<0.050	0.050	06/24/2024	ND	1.83	91.3	2.00	5.68		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	1.86	92.9	2.00	2.59		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.44	90.7	6.00	2.28		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 10A @ 4-4.5' (H243718-28)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	11.5		
Toluene*	<0.050	0.050	06/24/2024	ND	1.83	91.3	2.00	5.68		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	1.86	92.9	2.00	2.59		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.44	90.7	6.00	2.28		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	58.6	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	15.3	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 21 @ 4-4.5' (H243718-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	11.5		
Toluene*	<0.050	0.050	06/24/2024	ND	1.83	91.3	2.00	5.68		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	1.86	92.9	2.00	2.59		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.44	90.7	6.00	2.28		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/24/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/24/2024	Sampling Date:	06/23/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 96 @ 4-4.5' (H243718-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2024	ND	1.86	93.2	2.00	11.5		
Toluene*	<0.050	0.050	06/24/2024	ND	1.83	91.3	2.00	5.68		
Ethylbenzene*	<0.050	0.050	06/24/2024	ND	1.86	92.9	2.00	2.59		
Total Xylenes*	<0.150	0.150	06/24/2024	ND	5.44	90.7	6.00	2.28		
Total BTEX	<0.300	0.300	06/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2350	16.0	06/24/2024	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	203	101	200	0.158	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	184	92.0	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire

432-313-1288

Project Location: Loving, Lea County, NM
(county, state)

Project #: Incident 148

Invoice to: Ray Ramos, Incident 148

Sampler Name: Gilberto Sanchez
Sampler Signature: 

Receiving Laboratory: Cardinal Laboratory

Comments: Reference Incident 148 on invoice

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (GRO	Chloride																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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1	BH-4-4.5'	6-23-24		X				X	1		X	X	X						
2	BH-3 @ 4-4.5'			X				X	1		X	X	X						
3	BH-5 @ 4-4.5'			X				X	1		X	X	X						
4	BH-4 @ 6-6.5'			X				X	1		X	X	X						
5	BH-14 @ 4-4.5'			X				X	1		X	X	X						
6	BH-15 @ 4-4.5'			X				X	1		X	X	X						
7	BH-25 @ 4-4.5'			X				X	1		X	X	X						
8	BH-43 @ 4-4.5'			X				X	1		X	X	X						
9	BH-51 @ 4-4.5'			X				X	1		X	X	X						
10	BH-54 @ 4-4.5'			X				X	1		X	X	X						

Relinquished by: 6-24 Date: 6-24 Time:

Relinquished by: Gilberto Sanchez Date: 6-24 Time:

Relinquished by: Date: Time:

Received by: Steddiequely Date: 6-24 Time: 0857

Received by: Date: Time:

LAB USE ONLY

REMARKS: Standard TAT

☒ RUSH: Same Day ☐ 24 hr ☐ 48 hr ☐ 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

#140

ORIGINAL COPY

Page 2 of 4

Comments:

Reference Incident 148 on invoice

Sampler Signature

SAMPLING	YEAR: 2024	DATE	
		TIME	
	MATRIX	WATER	
		SOIL	
	PRESERVATIVE METHOD	HCL	
HNO ₃			
ICE			
# CONTAINERS			
FILTERED (Y/N)			

K	BTEX 8021B
K	TPH 8015M (GRO - DRO - ORO - MRO)
K	Chloride

ANALYSIS REQUEST

[illegible][illegible]

Received by: _____ Date: _____ Time: _____

Relinquished by:	Date:	Time:
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Received by: _____ Date: _____

LAB USE ONLY

☒ **RUSH:** Same Day ☒ 24 hr ☐ 48 hr ☐ 72 hr

Sample Temperature

☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Page 34 of 36

Page 3 of 3

Reference Incident 148 on invoice

SAMPLE IDENTIFICATION

(LAB USE ONLY)

21	B4-127 @ 4-4.5'
22	B4-161 @ 4-4.5'

6.23.24

SAMPLING

YEAR: 2024

WATER
SOIL

HCL
HNO ₃
ICE

CONTAINERS
FILTERED (Y/N)

BTEX 8021B
TPH 8015M (GRO - DRO - ORO - MRO)
Chloride

ANALYSIS REQUEST

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: Gilbert Sanchez Date: 6-24-23

Relinquished by: _____ Date: _____ Time: _____

Page 35 of 36

Hold	
------	--

REMARKS: Standard TAT

LAB USE ONLY

Sample Temperature

1.3c

#146

☒ **RUSH:** Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Released to Imaging: 10/11/2024 3:39:45 PM

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire

432-313-1288

Project Location: Loving, Lea County, NM
(county, state)

Project #: Incident 148

Invoice to: Ray Ramos, Incident 148

Sampler Name: Gilbert Sanchez

Receiving Laboratory: Cardinal Laboratory

Sampler Signature: [Signature]

Comments: Reference Incident 148 on invoice

LAB # <div>LAB USE ONLY</div>	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (GROSS Chloride																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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23	Sw-3A @ 0-2'	6-23-24		X				X	1		X	X	X						
24	Sw-4W @ 4-4.5'			X				X	1		X	X	X						
25	Sw-5 @ 4-4.5'			X				X	1		X	X	X						
26	Sw-6A @ 0-2'			X				X	1		X	X	X						
27	Sw-8A @ 4-4.5'			X				X	1		X	X	X						
28	Sw-10A @ 4-4.5'			X				X	1		X	X	X						
29	Sw-21 @ 4-4.5'			X				X	1		X	X	X						
30	BHAWD H-4.5'			X				X	1		X	X	X						

Relinquished by: [Signature]	Date: 6-24-23	Time:
Received by: [Signature]	Date: 6-24-23	Time: 0857
Relinquished by:	Date:	Time:
Received by:	Date:	Time:

LAB USE ONLY

REMARKS: Standard TAT

☒ RUSH: Same Day

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature: 11.3°C

#140

ORIGINAL COPY



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 25, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 06/25/24 8:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/25/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 45 @ 10-10.5' (H243753-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2024	ND	1.85	92.7	2.00	7.11	
Toluene*	<0.050	0.050	06/25/2024	ND	1.82	90.9	2.00	6.12	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.85	92.5	2.00	5.08	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.46	91.1	6.00	4.60	
Total BTX	<0.300	0.300	06/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	06/25/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	203	102	200	5.05	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/25/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 46 @ 10-10.5' (H243753-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.85	92.7	2.00	7.11		
Toluene*	<0.050	0.050	06/25/2024	ND	1.82	90.9	2.00	6.12		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.85	92.5	2.00	5.08		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.46	91.1	6.00	4.60		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	06/25/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	203	102	200	5.05	
DRO >C10-C28*	<10.0	10.0	06/25/2024	ND	212	106	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/25/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 57 @ 10-10.5' (H243753-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2024	ND	1.85	92.7	2.00	7.11		
Toluene*	<0.050	0.050	06/25/2024	ND	1.82	90.9	2.00	6.12		
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	1.85	92.5	2.00	5.08		
Total Xylenes*	<0.150	0.150	06/25/2024	ND	5.46	91.1	6.00	4.60		
Total BTEX	<0.300	0.300	06/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	06/25/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2024	ND	203	102	200	5.05	
DRO >C10-C28*	10.7	10.0	06/25/2024	ND	212	106	200	5.21	
EXT DRO >C28-C36	<10.0	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/25/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 114 @ 10-10.5' (H243753-04)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/25/2024	ND	1.85	92.7	2.00	7.11	
Toluene*	3.73	0.200	06/25/2024	ND	1.82	90.9	2.00	6.12	GC-NC1
Ethylbenzene*	1.83	0.200	06/25/2024	ND	1.85	92.5	2.00	5.08	GC-NC1
Total Xylenes*	64.4	0.600	06/25/2024	ND	5.46	91.1	6.00	4.60	
Total BTX	69.9	1.20	06/25/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 217 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	06/25/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2070	10.0	06/25/2024	ND	203	102	200	5.05	
DRO >C10-C28*	6670	10.0	06/25/2024	ND	212	106	200	5.21	
EXT DRO >C28-C36	806	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 202 % 48.2-134

Surrogate: 1-Chlorooctadecane 171 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/25/2024	Sampling Date:	06/24/2024
Reported:	06/25/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 115 @ 10-10.5' (H243753-05)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	06/25/2024	ND	1.85	92.7	2.00	7.11	
Toluene*	1.08	0.100	06/25/2024	ND	1.82	90.9	2.00	6.12	GC-NC1
Ethylbenzene*	0.836	0.100	06/25/2024	ND	1.85	92.5	2.00	5.08	GC-NC1
Total Xylenes*	20.7	0.300	06/25/2024	ND	5.46	91.1	6.00	4.60	
Total BTEX	22.6	0.600	06/25/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 229 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	06/25/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	707	10.0	06/25/2024	ND	203	102	200	5.05	
DRO >C10-C28*	2730	10.0	06/25/2024	ND	212	106	200	5.21	
EXT DRO >C28-C36	340	10.0	06/25/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire

432-313-1288

Project Location: Loving, Lea County, NM
(county, state)

Project #: Incident 148

Invoice to: Ray Ramos, Incident 148

Sampler Name: Gilberto Sanchez

Receiving Laboratory: Cardinal Laboratory

Sampler Signature: *Gilberto Sanchez*

Comments:

Reference Incident 148 on invoice

SAMPLE IDENTIFICATION

LAB USE ONLY

LAB # 1243163

YEAR: 2024	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			

BTEX 8021B
TPH 8015M (GRO - DRO - ORO - MRO)
Chloride

ANALYSIS REQUEST

Hold

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

LAB USE ONLY

REMARKS: Standard TAT

48 hr 72 hr

Special Report Limits or TRRP Report

Rush Charges Authorized

RUSH: Same Day

Sample Temperature 3.9c

#140

ORIGINAL COPY



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 26, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 06/26/24 8:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 10 @ 8-8.5' (H243806-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	1.82	90.9	2.00	1.49		
Toluene*	<0.050	0.050	06/26/2024	ND	1.82	91.0	2.00	0.400		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.89	94.5	2.00	1.58		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.57	92.8	6.00	1.80		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 11 @ 8-8.5' (H243806-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	1.82	90.9	2.00	1.49		
Toluene*	<0.050	0.050	06/26/2024	ND	1.82	91.0	2.00	0.400		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.89	94.5	2.00	1.58		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.57	92.8	6.00	1.80		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36		
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND						

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 12 @ 4-4.5' (H243806-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	1.82	90.9	2.00	1.49		
Toluene*	<0.050	0.050	06/26/2024	ND	1.82	91.0	2.00	0.400		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	1.89	94.5	2.00	1.58		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	5.57	92.8	6.00	1.80		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1820	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 26 @ 4-4.5' (H243806-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.00	100	2.00	1.44		
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 36 @ 4-4.5' (H243806-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.00	100	2.00	1.44		
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 37 @ 4-4.5' (H243806-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.00	100	2.00	1.44		
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 38 @ 4-4.5' (H243806-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2024	ND	2.00	100	2.00	1.44	
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 39 @ 4-4.5' (H243806-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.00	100	2.00	1.44		
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36		
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 49 @ 4-4.5' (H243806-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2024	ND	2.00	100	2.00	1.44	
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481	
Total BTEx	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 58 @ 4-4.5' (H243806-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.00	100	2.00	1.44		
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481		
Total BTEx	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1900	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 70 @ 4-4.5' (H243806-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.00	100	2.00	1.44		
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481		
Total BTEx	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	215	108	200	1.36	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	214	107	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 95 @ 4-4.5' (H243806-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.00	100	2.00	1.44		
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1700	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	192	95.9	200	1.46		
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	187	93.6	200	0.454		
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND						

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 107 @ 4-4.5' (H243806-13)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2024	ND	2.00	100	2.00	1.44	
Toluene*	<0.050	0.050	06/26/2024	ND	2.13	106	2.00	1.36	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	6.54	109	6.00	0.481	
Total BTX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	06/26/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	187	93.6	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 1A @ 0-2' (H243806-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.17	109	2.00	5.39		
Toluene*	<0.050	0.050	06/26/2024	ND	2.19	109	2.00	2.91		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.30	115	2.00	2.51		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	7.04	117	6.00	1.82		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	187	93.6	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 2A @ 0-2' (H243806-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2024	ND	2.17	109	2.00	5.39	
Toluene*	<0.050	0.050	06/26/2024	ND	2.19	109	2.00	2.91	
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.30	115	2.00	2.51	
Total Xylenes*	<0.150	0.150	06/26/2024	ND	7.04	117	6.00	1.82	
Total BTEX	<0.300	0.300	06/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	187	93.6	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 39 @ 0-6' (H243806-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.17	109	2.00	5.39		
Toluene*	<0.050	0.050	06/26/2024	ND	2.19	109	2.00	2.91		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.30	115	2.00	2.51		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	7.04	117	6.00	1.82		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	187	93.6	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 40 @ 0-3' (H243806-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.17	109	2.00	5.39		
Toluene*	<0.050	0.050	06/26/2024	ND	2.19	109	2.00	2.91		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.30	115	2.00	2.51		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	7.04	117	6.00	1.82		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	192	95.9	200	1.46	
DRO >C10-C28*	36.5	10.0	06/26/2024	ND	187	93.6	200	0.454	
EXT DRO >C28-C36	19.8	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 43A @ 0-6' (H243806-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.17	109	2.00	5.39		
Toluene*	<0.050	0.050	06/26/2024	ND	2.19	109	2.00	2.91		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.30	115	2.00	2.51		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	7.04	117	6.00	1.82		
Total BTEx	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	187	93.6	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 44N @ 0-6' (H243806-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.17	109	2.00	5.39		
Toluene*	<0.050	0.050	06/26/2024	ND	2.19	109	2.00	2.91		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.30	115	2.00	2.51		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	7.04	117	6.00	1.82		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	187	93.6	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 44S @ 0-8' (H243806-20)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.17	109	2.00	5.39		
Toluene*	<0.050	0.050	06/26/2024	ND	2.19	109	2.00	2.91		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.30	115	2.00	2.51		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	7.04	117	6.00	1.82		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	192	95.9	200	1.46	
DRO >C10-C28*	<10.0	10.0	06/26/2024	ND	187	93.6	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/26/2024	Sampling Date:	06/25/2024
Reported:	06/26/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 47 @ 0-6' (H243806-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/26/2024	ND	2.17	109	2.00	5.39		
Toluene*	<0.050	0.050	06/26/2024	ND	2.19	109	2.00	2.91		
Ethylbenzene*	<0.050	0.050	06/26/2024	ND	2.30	115	2.00	2.51		
Total Xylenes*	<0.150	0.150	06/26/2024	ND	7.04	117	6.00	1.82		
Total BTEX	<0.300	0.300	06/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	06/26/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2024	ND	192	95.9	200	1.46	
DRO >C10-C28*	757	10.0	06/26/2024	ND	187	93.6	200	0.454	
EXT DRO >C28-C36	343	10.0	06/26/2024	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire

Project #: 432-313-1288

Project Location: Loving, Lea County, NM

Project #: Incident 148

Invoice to: Ray Ramos, Incident 148

Sample Name: *Gilberto Sanchez*

Receiving Laboratory: Cardinal Laboratory

Sample Signature: *[Signature]*

Comments: Reference Incident 148 on invoice

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	TPH 8015M (GRO -	Chloride																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</
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1	BH-10 @ 8-8.5'		6-25-24		X				X		1			X	X	X			
2	BH-11 @ 8-8.5'				X				X		1			X	X	X			
3	BH-12 @ 4-4.5'				X				X		1			X	X	X			
4	BH-26 @ 4-4.5'				X				X		1			X	X	X			
5	BH-3 @ 4-4.5'				X				X		1			X	X	X			
6	BH-37 @ 4-4.5'				X				X		1			X	X	X			
7	BH-38 @ 4-4.5'				X				X		1			X	X	X			
8	BH-39 @ 4-4.5'				X				X		1			X	X	X			
9	BH-44 @ 4-4.5'				X				X		1			X	X	X			
10	BH-58 @ 4-4.5'				X				X		1			X	X	X			

Relinquished by: <i>Gilberto Sanchez</i>	Date: 6-26	Time:	Received by: <i>Sted Riquelme</i>	Date: 6-24	Time: 0801
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS: Standard TAT
Sample Temperature: 1.8°C	<input checked="" type="checkbox"/> RUSH Same Day <input checked="" type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr
#140	<input type="checkbox"/> Rush Charges Authorized
	<input type="checkbox"/> Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

ANALYSIS REQUEST

Project Name: Harroun Ranch Battery West Fire

432-313-1288

Project Location: Loving, Lea County, NM
(county, state)

Project #: Incident 148

Invoice to: Ray Ramos, Incident 148

Sampler Name: Gilberto Sanchez

Receiving Laboratory: Cardinal Laboratory

Sampler Signature: [Signature]

Comments: Reference Incident 148 on invoice

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)										
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE											

11	84-70 @ 4-4.5'	6-25-24		X				X		1		X	X	X	X	X	X	X	X
12	84-95 @ 4-4.5'			X				X		1		X	X	X	X	X	X	X	X
13	84-107 @ 4-4.5'			X				X		1		X	X	X	X	X	X	X	X
14	84-114 @ 0-2'			X				X		1		X	X	X	X	X	X	X	X
15	84-24 @ 0-2'			X				X		1		X	X	X	X	X	X	X	X
16	84-34 @ 0-6'			X				X		1		X	X	X	X	X	X	X	X
17	84-40 @ 0-3'			X				X		1		X	X	X	X	X	X	X	X
18	84-43A @ 0-6'			X				X		1		X	X	X	X	X	X	X	X
19	84-44N @ 0-6'			X				X		1		X	X	X	X	X	X	X	X
20	84-44S @ 0-8'			X				X		1		X	X	X	X	X	X	X	X

Relinquished by: Gilberto Sanchez	Date: 6-26-24	Time:	Received by: [Signature]	Date: 6-26-24	Time: 0801
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS: Standard TAT
Sample Temperature: 1-8°C	<input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr
#140	<input type="checkbox"/> Rush Charges Authorized
	<input type="checkbox"/> Special Report Limits or TRRP Report

ORIGINAL COPY

Page 3 of

Comments:

Sampler Signature:

Reference Incident 148 on invoice

LAB USE ONLY

21	Sm-4720-6
----	-----------

6.25.14

SAMPLING

YEAR: 2024

DATE
TIME

WATER
SOIL

HCL
HNO ₃
ICE

CONTAINERS
FILTERED (Y/N)

BTEX 8021B
TPH 8015M (GRO - DRO - ORO - MRO)
Chloride

Hold

ANALYSIS REQUEST

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Sample Temperature

1.8c

#40

REMARKS: Standard 1A1

☒ **RUSH** Same Day ☒ 24 hr ☐ 48 hr ☐ 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Page 26 of 26



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 27, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 06/27/24 8:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 66 @ 4-4.5' (H243844-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2024	ND	2.11	105	2.00	6.49	
Toluene*	<0.050	0.050	06/27/2024	ND	2.21	111	2.00	7.67	
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.19	109	2.00	9.19	
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.73	112	6.00	9.38	
Total BTEX	<0.300	0.300	06/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	06/27/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	223	111	200	0.326	
DRO >C10-C28*	66.1	10.0	06/27/2024	ND	227	113	200	0.571	
EXT DRO >C28-C36	20.4	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 79 @ 4-4.5' (H243844-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	2.11	105	2.00	6.49		
Toluene*	<0.050	0.050	06/27/2024	ND	2.21	111	2.00	7.67		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.19	109	2.00	9.19		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.73	112	6.00	9.38		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1730	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	223	111	200	0.326		
DRO >C10-C28*	58.4	10.0	06/27/2024	ND	227	113	200	0.571		
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND						

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 80 @ 10-10.5' (H243844-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	2.11	105	2.00	6.49		
Toluene*	<0.050	0.050	06/27/2024	ND	2.21	111	2.00	7.67		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.19	109	2.00	9.19		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.73	112	6.00	9.38		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	223	111	200	0.326	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	227	113	200	0.571	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 81 @ 10-10.5' (H243844-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	2.11	105	2.00	6.49		
Toluene*	<0.050	0.050	06/27/2024	ND	2.21	111	2.00	7.67		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.19	109	2.00	9.19		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.73	112	6.00	9.38		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2340	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	223	111	200	0.326	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	227	113	200	0.571	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 90 @ 6-6.5' (H243844-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	2.11	105	2.00	6.49		
Toluene*	<0.050	0.050	06/27/2024	ND	2.21	111	2.00	7.67		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.19	109	2.00	9.19		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.73	112	6.00	9.38		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1710	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	223	111	200	0.326	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	227	113	200	0.571	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 92 @ 10-10.5' (H243844-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	1.97	98.3	2.00	3.55		
Toluene*	<0.050	0.050	06/27/2024	ND	1.95	97.6	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.04	102	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.01	100	6.00	3.10		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1970	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	223	111	200	0.326	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	227	113	200	0.571	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 93 @ 10-10.5' (H243844-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	1.97	98.3	2.00	3.55		
Toluene*	<0.050	0.050	06/27/2024	ND	1.95	97.6	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.04	102	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.01	100	6.00	3.10		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	223	111	200	0.326	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	227	113	200	0.571	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 104 @ 10-10.5' (H243844-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	1.97	98.3	2.00	3.55		
Toluene*	<0.050	0.050	06/27/2024	ND	1.95	97.6	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.04	102	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.01	100	6.00	3.10		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	223	111	200	0.326	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	227	113	200	0.571	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 110 @ 6-6.5' (H243844-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	1.97	98.3	2.00	3.55		
Toluene*	<0.050	0.050	06/27/2024	ND	1.95	97.6	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.04	102	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.01	100	6.00	3.10		
Total BTEx	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2110	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	223	111	200	0.326	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	227	113	200	0.571	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 120 @ 6-6.5' (H243844-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	1.97	98.3	2.00	3.55		
Toluene*	<0.050	0.050	06/27/2024	ND	1.95	97.6	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.04	102	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.01	100	6.00	3.10		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	223	111	200	0.326	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	227	113	200	0.571	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 125 @ 4-4.5' (H243844-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	1.97	98.3	2.00	3.55		
Toluene*	<0.050	0.050	06/27/2024	ND	1.95	97.6	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.04	102	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.01	100	6.00	3.10		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2100	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	214	107	200	1.25	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	209	105	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 132 @ 4-4.5' (H243844-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	1.97	98.3	2.00	3.55		
Toluene*	<0.050	0.050	06/27/2024	ND	1.95	97.6	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.04	102	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.01	100	6.00	3.10		
Total BTEx	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1970	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	214	107	200	1.25	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	209	105	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 136 @ 3-3.5' (H243844-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	1.97	98.3	2.00	3.55		
Toluene*	<0.050	0.050	06/27/2024	ND	1.95	97.6	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.04	102	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.01	100	6.00	3.10		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	214	107	200	1.25	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	209	105	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 138 @ 4-4.5' (H243844-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	1.97	98.3	2.00	3.55		
Toluene*	<0.050	0.050	06/27/2024	ND	1.95	97.6	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.04	102	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.01	100	6.00	3.10		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2100	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	214	107	200	1.25	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	209	105	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 160 @ 6-6.5' (H243844-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	1.97	98.3	2.00	3.55		
Toluene*	<0.050	0.050	06/27/2024	ND	1.95	97.6	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.04	102	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.01	100	6.00	3.10		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	214	107	200	1.25	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	209	105	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 12A @ 0-4' (H243844-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	1.97	98.3	2.00	3.55		
Toluene*	<0.050	0.050	06/27/2024	ND	1.95	97.6	2.00	3.58		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.04	102	2.00	3.35		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.01	100	6.00	3.10		
Total BTEx	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1790	16.0	06/27/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	214	107	200	1.25	
DRO >C10-C28*	70.4	10.0	06/27/2024	ND	209	105	200	1.65	
EXT DRO >C28-C36	22.2	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 48 @ 0-6' (H243844-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	2.11	105	2.00	6.49		
Toluene*	<0.050	0.050	06/27/2024	ND	2.21	111	2.00	7.67		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.19	109	2.00	9.19		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.73	112	6.00	9.38		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	06/27/2024	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	214	107	200	1.25		
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	209	105	200	1.65		
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND						

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 15A @ 0-6' (H243844-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	2.11	105	2.00	6.49		
Toluene*	<0.050	0.050	06/27/2024	ND	2.21	111	2.00	7.67		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.19	109	2.00	9.19		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.73	112	6.00	9.38		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1490	16.0	06/27/2024	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	214	107	200	1.25		
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	209	105	200	1.65		
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 16A @ 0-6' (H243844-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	2.11	105	2.00	6.49		
Toluene*	<0.050	0.050	06/27/2024	ND	2.21	111	2.00	7.67		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.19	109	2.00	9.19		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.73	112	6.00	9.38		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	06/27/2024	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	214	107	200	1.25		
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	209	105	200	1.65		
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/27/2024	Sampling Date:	06/26/2024
Reported:	06/27/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 37 @ 0-3' (H243844-20)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2024	ND	2.11	105	2.00	6.49		
Toluene*	<0.050	0.050	06/27/2024	ND	2.21	111	2.00	7.67		
Ethylbenzene*	<0.050	0.050	06/27/2024	ND	2.19	109	2.00	9.19		
Total Xylenes*	<0.150	0.150	06/27/2024	ND	6.73	112	6.00	9.38		
Total BTEX	<0.300	0.300	06/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	06/27/2024	ND	448	112	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2024	ND	214	107	200	1.25	
DRO >C10-C28*	<10.0	10.0	06/27/2024	ND	209	105	200	1.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire

432-313-1288

Project Location: Loving, Lea County, NM
(county, state)

Project #: Incident 148

Invoice to: Ray Ramos, Incident 148

Sampler Name: *Gilbert Sanchez*

Receiving Laboratory: Cardinal Laboratory

Sampler Signature: *[Signature]*

Comments: Reference Incident 148 on invoice

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		BTX 8021B		TPH 8015M (GRO Chloride																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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1	BH-66 @ 4-4.5'	6-26		X				X		1	X	X	X						
2	BH-79 @ 4-4.5'			X				X		1	X	X	X						
3	BH-80 @ 10-10.5'			X				X		1	X	X	X						
4	BH-81 @ 10-10.5'			X				X		1	X	X	X						
5	BH-90 @ 6-6.5'			X				X		1	X	X	X						
6	BH-92 @ 10-10.5'			X				X		1	X	X	X						
7	BH-93 @ 10-10.5'			X				X		1	X	X	X						
8	BH-104 @ 10-10.5'			X				X		1	X	X	X						
9	BH-110 @ 6-6.5'			X				X		1	X	X	X						
10	BH-120 @ 6-6.5'			X				X		1	X	X	X						

Relinquished by: *Gilbert Sanchez* Date: 6-27-24 Time:
Relinquished by: _____ Date: _____ Time: _____
Relinquished by: _____ Date: _____ Time: _____
Received by: *[Signature]* Date: 6-27-24 Time: 0800
Received by: _____ Date: _____ Time: _____

LAB USE ONLY
Sample Temperature: -0.5°C
RUSH: ☒ Same Day ☒ 48 hr ☐ 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager:
Ray Ramos

Project Name: Harroun Ranch Battery West Fire

432-313-1288

Project Location:
(county, state)
Loving, Lea County, NM

Project #: Incident 148

Invoice to: **Rav Ramos, Incident 148**

Sampler Name: Galbraith, Sam

Receiving Laboratory:

Cardinal Laboratory

Comments:

Reference Incident 148 on invoice

4243841

SAMPLE IDENTIFICATION

SAMPLING

YEAR: 2024

DATE	
TIME	

WATER
SOIL
HCL
HNO ₃
ICE

# CONTAINERS	
FILTERED (Y/N)	

BTEX 8021B
TPH 8015M (GRO - DRO - ORO - MRO)
Chloride

Hold	
------	--

ANALYSIS REQUEST

Relinquished by:

Date: _____ Time: _____

Relinquished by:

Date: Time:

Relinquished by:

Date: _____ Time: _____

Received by

Date: 11/11/2011 Time: 11:27 AM

Received by

Date: _____

LAB USE ONLY

REMARKS: Standard TAT

Sample Temperature

☒ **RUSH** Same Day ☒ **24H**

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 28, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 06/28/24 8:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/28/2024	Sampling Date:	06/27/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 6 @ 4-4.5' (H243880-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2024	ND	1.99	99.4	2.00	15.0	
Toluene*	<0.050	0.050	06/28/2024	ND	2.11	106	2.00	12.4	
Ethylbenzene*	<0.050	0.050	06/28/2024	ND	2.09	104	2.00	10.6	
Total Xylenes*	<0.150	0.150	06/28/2024	ND	6.48	108	6.00	9.07	
Total BTEX	<0.300	0.300	06/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/28/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2024	ND	211	106	200	1.14	
DRO >C10-C28*	<10.0	10.0	06/28/2024	ND	208	104	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	06/28/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/28/2024	Sampling Date:	06/27/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 16 @ 4-4.5' (H243880-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2024	ND	1.99	99.4	2.00	15.0		
Toluene*	<0.050	0.050	06/28/2024	ND	2.11	106	2.00	12.4		
Ethylbenzene*	<0.050	0.050	06/28/2024	ND	2.09	104	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/28/2024	ND	6.48	108	6.00	9.07		
Total BTEX	<0.300	0.300	06/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/28/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2024	ND	211	106	200	1.14	
DRO >C10-C28*	<10.0	10.0	06/28/2024	ND	208	104	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	06/28/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	06/28/2024	Sampling Date:	06/27/2024
Reported:	06/28/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 47 @ 0-6' (H243880-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2024	ND	1.99	99.4	2.00	15.0		
Toluene*	<0.050	0.050	06/28/2024	ND	2.11	106	2.00	12.4		
Ethylbenzene*	<0.050	0.050	06/28/2024	ND	2.09	104	2.00	10.6		
Total Xylenes*	<0.150	0.150	06/28/2024	ND	6.48	108	6.00	9.07		
Total BTEX	<0.300	0.300	06/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	06/28/2024	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2024	ND	211	106	200	1.14	
DRO >C10-C28*	<10.0	10.0	06/28/2024	ND	208	104	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	06/28/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Page 1 of 1

Comments:

LAB # H24380

ANALYSIS REQUEST

Hold	
------	--

Page 6 of 6

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

ONLY

130

REMARKS: Standard TAT

☒ **RUSH** Same Day ☒ 24 hr ☐ 48 hr ☐ 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 02, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 07/01/24 16:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 18 @ 4-4.5' (H243943-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	1.96	98.2	2.00	7.85	
Toluene*	<0.050	0.050	07/01/2024	ND	1.96	97.8	2.00	6.92	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.01	101	2.00	5.67	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	5.94	99.0	6.00	5.35	
Total BTEX	<0.300	0.300	07/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	07/02/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 62 @ 4-4.5' (H243943-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.96	98.2	2.00	7.85		
Toluene*	<0.050	0.050	07/01/2024	ND	1.96	97.8	2.00	6.92		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.01	101	2.00	5.67		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	5.94	99.0	6.00	5.35		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3720	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 136 @ 4-4.5' (H243943-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.96	98.2	2.00	7.85		
Toluene*	<0.050	0.050	07/01/2024	ND	1.96	97.8	2.00	6.92		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.01	101	2.00	5.67		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	5.94	99.0	6.00	5.35		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	59.1	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	12.4	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 155 @ 4-4.5' (H243943-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.96	98.2	2.00	7.85		
Toluene*	<0.050	0.050	07/01/2024	ND	1.96	97.8	2.00	6.92		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.01	101	2.00	5.67		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	5.94	99.0	6.00	5.35		
Total BTEx	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	196	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	56.7	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 156 @ 4-4.5' (H243943-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.96	98.2	2.00	7.85		
Toluene*	<0.050	0.050	07/01/2024	ND	1.96	97.8	2.00	6.92		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.01	101	2.00	5.67		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	5.94	99.0	6.00	5.35		
Total BTEx	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2960	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	72.8	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	19.6	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 157 @ 4-4.5' (H243943-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.96	98.2	2.00	7.85		
Toluene*	<0.050	0.050	07/01/2024	ND	1.96	97.8	2.00	6.92		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.01	101	2.00	5.67		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	5.94	99.0	6.00	5.35		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	161	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	47.1	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 158 @ 4-4.5' (H243943-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.96	98.2	2.00	7.85		
Toluene*	<0.050	0.050	07/01/2024	ND	1.96	97.8	2.00	6.92		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.01	101	2.00	5.67		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	5.94	99.0	6.00	5.35		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	16.7	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 159 @ 4-4.5' (H243943-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.96	98.2	2.00	7.85		
Toluene*	<0.050	0.050	07/01/2024	ND	1.96	97.8	2.00	6.92		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.01	101	2.00	5.67		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	5.94	99.0	6.00	5.35		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	21.7	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 4E @ 0-3' (H243943-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.96	98.2	2.00	7.85		
Toluene*	<0.050	0.050	07/01/2024	ND	1.96	97.8	2.00	6.92		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.01	101	2.00	5.67		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	5.94	99.0	6.00	5.35		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 6B @ 0-3' (H243943-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/02/2024	ND	1.96	98.2	2.00	7.85		
Toluene*	<0.050	0.050	07/02/2024	ND	1.96	97.8	2.00	6.92		
Ethylbenzene*	<0.050	0.050	07/02/2024	ND	2.01	101	2.00	5.67		
Total Xylenes*	<0.150	0.150	07/02/2024	ND	5.94	99.0	6.00	5.35		
Total BTEX	<0.300	0.300	07/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 6C @ 0-3' (H243943-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.95	97.5	2.00	6.16		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.96		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.18	109	2.00	5.77		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.75	113	6.00	5.97		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	28.5	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 6D @ 0-3' (H243943-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.95	97.5	2.00	6.16		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.96		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.18	109	2.00	5.77		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.75	113	6.00	5.97		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 7 @ 0-3' (H243943-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2024	ND	1.95	97.5	2.00	6.16	
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.96	
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.18	109	2.00	5.77	
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.75	113	6.00	5.97	
Total BTEX	<0.300	0.300	07/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	07/02/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	58.6	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 33A @ 0-4' (H243943-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.95	97.5	2.00	6.16		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.96		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.18	109	2.00	5.77		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.75	113	6.00	5.97		
Total BTEX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/01/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	<10.0	10.0	07/01/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	<10.0	10.0	07/01/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 34A @ 0-4' (H243943-15)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.95	97.5	2.00	6.16		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.96		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.18	109	2.00	5.77		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.75	113	6.00	5.97		
Total BTX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	59.6	10.0	07/02/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	11.6	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/01/2024	Sampling Date:	07/01/2024
Reported:	07/02/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 35A @ 0-4' (H243943-16)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2024	ND	1.95	97.5	2.00	6.16		
Toluene*	<0.050	0.050	07/01/2024	ND	2.08	104	2.00	5.96		
Ethylbenzene*	<0.050	0.050	07/01/2024	ND	2.18	109	2.00	5.77		
Total Xylenes*	<0.150	0.150	07/01/2024	ND	6.75	113	6.00	5.97		
Total BTX	<0.300	0.300	07/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	07/02/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/02/2024	ND	185	92.4	200	3.14	
DRO >C10-C28*	101	10.0	07/02/2024	ND	198	98.9	200	3.64	
EXT DRO >C28-C36	30.5	10.0	07/02/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Page 1 of 7

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Page 19 of 20

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC

Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire

432-313-1288

Project Location: Loving, Lea County, NM

Project #: Incident 148

Invoice to: Ray Ramos, Incident 148

Sampler Name: *Laiberto Sanchez*

Receiving Laboratory: Cardinal Laboratory

Sampler Signature: *Laiberto Sanchez*

Comments: Reference Incident 148 on invoice

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

DATE

TIME

WATER

SOIL

HCL

HNO₃

ICE

CONTAINERS

FILTERED (Y/N)

BTEX 8021B

TPH 8015M (GRO - DRO - ORO - MRO)

Chloride

Hold

ANALYSIS REQUEST

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

REMARKS: Standard TAT

☒ RUSH: Same Day ☐ 24 hr ☐ 48 hr ☐ 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 03, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 07/03/24 11:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 4E @ 0 - 4' (H244003-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/03/2024	ND	1.80	90.2	2.00	12.4	
Toluene*	<0.050	0.050	07/03/2024	ND	1.79	89.4	2.00	12.7	
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	1.83	91.5	2.00	12.2	
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.40	90.0	6.00	12.2	
Total BTEX	<0.300	0.300	07/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	205	103	200	2.24	
DRO >C10-C28*	19.9	10.0	07/03/2024	ND	192	95.9	200	0.913	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 4F @ 0 - 2' (H244003-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	1.80	90.2	2.00	12.4		
Toluene*	<0.050	0.050	07/03/2024	ND	1.79	89.4	2.00	12.7		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	1.83	91.5	2.00	12.2		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.40	90.0	6.00	12.2		
Total BTEx	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	205	103	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	192	95.9	200	0.913	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 6E @ 0 - 2' (H244003-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	1.80	90.2	2.00	12.4		
Toluene*	<0.050	0.050	07/03/2024	ND	1.79	89.4	2.00	12.7		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	1.83	91.5	2.00	12.2		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.40	90.0	6.00	12.2		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	205	103	200	2.24	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	192	95.9	200	0.913	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 6D @ 0 - 2' (H244003-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	1.80	90.2	2.00	12.4		
Toluene*	<0.050	0.050	07/03/2024	ND	1.79	89.4	2.00	12.7		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	1.83	91.5	2.00	12.2		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	5.40	90.0	6.00	12.2		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	205	103	200	2.24	
DRO >C10-C28*	13.7	10.0	07/03/2024	ND	192	95.9	200	0.913	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW - 16A @ 0 - 6' (H244003-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.11	106	2.00	3.87		
Toluene*	<0.050	0.050	07/03/2024	ND	2.24	112	2.00	2.19		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.23	111	2.00	1.29		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.89	115	6.00	1.88		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	205	103	200	2.24		
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	192	95.9	200	0.913		
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND						

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW -33A @ 0 - 3' (H244003-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/03/2024	ND	2.11	106	2.00	3.87	
Toluene*	<0.050	0.050	07/03/2024	ND	2.24	112	2.00	2.19	
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.23	111	2.00	1.29	
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.89	115	6.00	1.88	
Total BTEX	<0.300	0.300	07/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	205	103	200	2.24	
DRO >C10-C28*	32.0	10.0	07/03/2024	ND	192	95.9	200	0.913	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW -33B @ 0 - 3' (H244003-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.11	106	2.00	3.87		
Toluene*	<0.050	0.050	07/03/2024	ND	2.24	112	2.00	2.19		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.23	111	2.00	1.29		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.89	115	6.00	1.88		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	175	87.5	200	3.84	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	187	93.4	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW -34A @ 0 - 3' (H244003-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.11	106	2.00	3.87		
Toluene*	<0.050	0.050	07/03/2024	ND	2.24	112	2.00	2.19		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.23	111	2.00	1.29		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.89	115	6.00	1.88		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	175	87.5	200	3.84		
DRO >C10-C28*	17.8	10.0	07/03/2024	ND	187	93.4	200	1.36		
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND						

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW -34B @ 0 - 3' (H244003-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.11	106	2.00	3.87		
Toluene*	<0.050	0.050	07/03/2024	ND	2.24	112	2.00	2.19		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.23	111	2.00	1.29		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.89	115	6.00	1.88		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	175	87.5	200	3.84	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	187	93.4	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW -35A @ 0 - 4' (H244003-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.11	106	2.00	3.87		
Toluene*	<0.050	0.050	07/03/2024	ND	2.24	112	2.00	2.19		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.23	111	2.00	1.29		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.89	115	6.00	1.88		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	175	87.5	200	3.84	
DRO >C10-C28*	14.1	10.0	07/03/2024	ND	187	93.4	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW -35B @ 0 - 4' (H244003-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.01	100	2.00	3.36		
Toluene*	<0.050	0.050	07/03/2024	ND	1.98	99.0	2.00	3.37		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.08	104	2.00	3.27		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.12	102	6.00	3.60		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	175	87.5	200	3.84	
DRO >C10-C28*	59.9	10.0	07/03/2024	ND	187	93.4	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: SW -49 @ 0 - 4' (H244003-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.01	100	2.00	3.36		
Toluene*	<0.050	0.050	07/03/2024	ND	1.98	99.0	2.00	3.37		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.08	104	2.00	3.27		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.12	102	6.00	3.60		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	212	106	200	0.340	
DRO >C10-C28*	19.8	10.0	07/03/2024	ND	194	97.1	200	0.260	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 62 @ 6 - 6.5' (H244003-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.01	100	2.00	3.36		
Toluene*	<0.050	0.050	07/03/2024	ND	1.98	99.0	2.00	3.37		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.08	104	2.00	3.27		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.12	102	6.00	3.60		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	212	106	200	0.340	
DRO >C10-C28*	21.4	10.0	07/03/2024	ND	194	97.1	200	0.260	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 155 @ 6 - 6.5' (H244003-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.01	100	2.00	3.36		
Toluene*	<0.050	0.050	07/03/2024	ND	1.98	99.0	2.00	3.37		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.08	104	2.00	3.27		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.12	102	6.00	3.60		
Total BTEx	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/03/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	212	106	200	0.340	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	194	97.1	200	0.260	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 157 @ 6 - 6.5' (H244003-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.01	100	2.00	3.36		
Toluene*	<0.050	0.050	07/03/2024	ND	1.98	99.0	2.00	3.37		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.08	104	2.00	3.27		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.12	102	6.00	3.60		
Total BTEx	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	212	106	200	0.340	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	194	97.1	200	0.260	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 162 @ 2 - 2.5' (H244003-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.01	100	2.00	3.36		
Toluene*	<0.050	0.050	07/03/2024	ND	1.98	99.0	2.00	3.37		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.08	104	2.00	3.27		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	6.12	102	6.00	3.60		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	212	106	200	0.340	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	194	97.1	200	0.260	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 163 @ 4 - 4.5' (H244003-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.13	107	2.00	2.91		
Toluene*	<0.050	0.050	07/03/2024	ND	2.30	115	2.00	7.63		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.42	121	2.00	8.71		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	7.35	122	6.00	7.52		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	212	106	200	0.340	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	194	97.1	200	0.260	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 164 @ 4 - 4.5' (H244003-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.13	107	2.00	2.91		
Toluene*	<0.050	0.050	07/03/2024	ND	2.30	115	2.00	7.63		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.42	121	2.00	8.71		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	7.35	122	6.00	7.52		
Total BTEx	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	179	89.6	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 165 @ 4 - 4.5' (H244003-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.13	107	2.00	2.91		
Toluene*	<0.050	0.050	07/03/2024	ND	2.30	115	2.00	7.63		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.42	121	2.00	8.71		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	7.35	122	6.00	7.52		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	179	89.6	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 166 @ 4 - 4.5' (H244003-20)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.13	107	2.00	2.91		
Toluene*	<0.050	0.050	07/03/2024	ND	2.30	115	2.00	7.63		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.42	121	2.00	8.71		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	7.35	122	6.00	7.52		
Total BTEX	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	179	89.6	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 167 @ 4 - 4.5' (H244003-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.13	107	2.00	2.91		
Toluene*	<0.050	0.050	07/03/2024	ND	2.30	115	2.00	7.63		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.42	121	2.00	8.71		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	7.35	122	6.00	7.52		
Total BTEx	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	179	89.6	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/03/2024	Sampling Date:	07/03/2024
Reported:	07/03/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Alyssa Parras
Project Location:	LOVING, NM		

Sample ID: BH - 168 @ 4 - 4.5' (H244003-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/03/2024	ND	2.13	107	2.00	2.91		
Toluene*	<0.050	0.050	07/03/2024	ND	2.30	115	2.00	7.63		
Ethylbenzene*	<0.050	0.050	07/03/2024	ND	2.42	121	2.00	8.71		
Total Xylenes*	<0.150	0.150	07/03/2024	ND	7.35	122	6.00	7.52		
Total BTEx	<0.300	0.300	07/03/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/03/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	197	98.3	200	1.72	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	179	89.6	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire

Project Location: Loving, Lea County, NM Project #: 432-313-1288

Invoice to: Ray Ramos, Incident 148

Receiving Laboratory: Cardinal Laboratory

Comments: Reference Incident 148 on invoice

Sampler Name: Gilberto Sanchez

Sampler Signature: [Signature]

LAB # LAB USE ONLY		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)	
				YEAR: 2024		WATER		OIL					
				DATE		TIME		HCL		NO ₃		E	
EX 8021B													
H 8015M (GRO - D													
loride													

1	SW-4E @ 0-4'	7.3.24		X				X	1		X	X	X						
2	SW-4E @ 0-2'			X				X	1		X	X	X						
3	SW-6E @ 0-2'			X				X	1		X	X	X						
4	SW-6D @ 0-2'			X				X	1		X	X	X						
5	SW-164 @ 0-6'			X				X	1		X	X	X						
6	SW-334 @ 0-3'			X				X	1		X	X	X						
7	SW-338 @ 0-3'			X				X	1		X	X	X						
8	SW-344 @ 0-3'			X				X	1		X	X	X						
9	SW-348 @ 0-3'			X				X	1		X	X	X						
10	SW-354 @ 0-4'			X				X	1		X	X	X						

Relinquished by: *Gilberto Sanchez* Date: 7.3.24 Time: 11:23

Received by: *[Signature]* Date: 7.3.24 Time: 11:23

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature: 3.3c

REMARKS: Standard TAT

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name: BTA Oil Producers, LLC Site Manager: Ray Ramos

Project Name: Harroun Ranch Battery West Fire Project #: 432-313-1288

Project Location: Loving, Lea County, NM Project #: Incident 148

Invoice to: Ray Ramos, Incident 148

Receiving Laboratory: Cardinal Laboratory

Comments: Reference Incident 148 on invoice

LAB # 112414803
(LAB USE ONLY)

SAMPLE IDENTIFICATION

	YEAR: 2024	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST									
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE													
11		8-2-35-13	0-4'							1		X	X	X	X	X	X	X	X	X	X
12		8-2-49	0-4'							1		X	X	X	X	X	X	X	X	X	X
13		8H-162	0-6-6.5'							1		X	X	X	X	X	X	X	X	X	X
14		8H-155	0-6-6.5'							1		X	X	X	X	X	X	X	X	X	X
15		8H-157	0-6-6.5'							1		X	X	X	X	X	X	X	X	X	X
16		8H-162	0-2-2.5'							1		X	X	X	X	X	X	X	X	X	X
17		8H-163	0-4-4.5'							1		X	X	X	X	X	X	X	X	X	X
18		8H-164	0-4-4.5'							1		X	X	X	X	X	X	X	X	X	X
19		8H-165	0-4-4.5'							1		X	X	X	X	X	X	X	X	X	X
20		8H-166	0-4-4.5'							1		X	X	X	X	X	X	X	X	X	X

Relinquished by: Gilbert Sanchez Date: 7.3.24 Time: 11:23

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature: 8.3°C

REMARKS: Standard TAT

☒ RUSH: Same Day ☒ 24 hr ☐ 48 hr ☐ 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Page 3 of _____[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 11, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 133 @ 6-6.5' (H244136-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.96	97.9	2.00	7.65		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	8.26		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.05	103	2.00	8.53		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.08	101	6.00	8.99		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6240	16.0	07/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	193	96.7	200	1.49	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	178	89.0	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 134 @ 6-6.5' (H244136-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.96	97.9	2.00	7.65		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	8.26		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.05	103	2.00	8.53		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.08	101	6.00	8.99		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	07/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	193	96.7	200	1.49		
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	178	89.0	200	3.40		
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND						

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 139 @ 6-6.5' (H244136-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.96	97.9	2.00	7.65		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	8.26		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.05	103	2.00	8.53		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.08	101	6.00	8.99		
Total BTX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	07/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	193	96.7	200	1.49	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	178	89.0	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 140 @ 6-6.5' (H244136-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.96	97.9	2.00	7.65		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	8.26		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.05	103	2.00	8.53		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.08	101	6.00	8.99		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	07/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	193	96.7	200	1.49	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	178	89.0	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 141 @ 6-6.5' (H244136-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.96	97.9	2.00	7.65		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	8.26		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.05	103	2.00	8.53		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.08	101	6.00	8.99		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	07/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	193	96.7	200	1.49	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	178	89.0	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 142 @ 6-6.5' (H244136-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.96	97.9	2.00	7.65		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.3	2.00	8.26		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.05	103	2.00	8.53		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.08	101	6.00	8.99		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7680	16.0	07/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	191	95.3	200	2.16	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	197	98.4	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 147 @ 6-6.5' (H244136-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.93	96.3	2.00	4.06		
Toluene*	<0.050	0.050	07/11/2024	ND	1.94	97.2	2.00	4.21		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.08	104	2.00	4.47		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.13	102	6.00	4.50		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5360	16.0	07/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	191	95.3	200	2.16	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	197	98.4	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 148 @ 6-6.5' (H244136-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.93	96.3	2.00	4.06		
Toluene*	<0.050	0.050	07/11/2024	ND	1.94	97.2	2.00	4.21		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.08	104	2.00	4.47		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.13	102	6.00	4.50		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	07/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	191	95.3	200	2.16	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	197	98.4	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 150 @ 6-6.5' (H244136-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.93	96.3	2.00	4.06		
Toluene*	<0.050	0.050	07/11/2024	ND	1.94	97.2	2.00	4.21		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.08	104	2.00	4.47		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.13	102	6.00	4.50		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	07/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	191	95.3	200	2.16	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	197	98.4	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 151 @ 6-6.5' (H244136-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.93	96.3	2.00	4.06		
Toluene*	<0.050	0.050	07/11/2024	ND	1.94	97.2	2.00	4.21		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.08	104	2.00	4.47		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.13	102	6.00	4.50		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7040	16.0	07/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	191	95.3	200	2.16	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	197	98.4	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 152 @ 6-6.5' (H244136-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.93	96.3	2.00	4.06		
Toluene*	<0.050	0.050	07/11/2024	ND	1.94	97.2	2.00	4.21		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.08	104	2.00	4.47		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.13	102	6.00	4.50		
Total BTEx	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2360	16.0	07/11/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	182	91.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 153 @ 6-6.5' (H244136-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	2.03	102	2.00	4.61		
Toluene*	<0.050	0.050	07/11/2024	ND	2.28	114	2.00	3.28		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.49	125	2.00	3.05		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.72	129	6.00	2.61		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9000	16.0	07/11/2024	ND	432	108	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	199	99.3	200	2.12		
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	182	91.0	200	1.69		
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 23A @ 0-6' (H244136-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	2.03	102	2.00	4.61		
Toluene*	<0.050	0.050	07/11/2024	ND	2.28	114	2.00	3.28		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.49	125	2.00	3.05		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.72	129	6.00	2.61		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	07/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	182	91.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 24A @ 0-6' (H244136-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	2.03	102	2.00	4.61		
Toluene*	<0.050	0.050	07/11/2024	ND	2.28	114	2.00	3.28		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.49	125	2.00	3.05		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.72	129	6.00	2.61		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	07/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	199	99.3	200	2.12		
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	182	91.0	200	1.69		
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND						

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.1 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 25A @ 0-6' (H244136-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	2.03	102	2.00	4.61		
Toluene*	<0.050	0.050	07/11/2024	ND	2.28	114	2.00	3.28		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.49	125	2.00	3.05		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.72	129	6.00	2.61		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	07/11/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	182	91.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 97.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.8 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 26A @ 0-6' (H244136-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	2.03	102	2.00	4.61		
Toluene*	<0.050	0.050	07/11/2024	ND	2.28	114	2.00	3.28		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.49	125	2.00	3.05		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	7.72	129	6.00	2.61		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	07/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	199	99.3	200	2.12	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	182	91.0	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 27A @ 0-6' (H244136-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.92	96.1	2.00	3.58		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.4	2.00	6.03		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	10.1		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.24	104	6.00	11.7		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	212	106	200	0.498	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	198	99.0	200	0.351	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 29A @ 0-6' (H244136-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.92	96.1	2.00	3.58		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.4	2.00	6.03		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	10.1		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.24	104	6.00	11.7		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	07/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	212	106	200	0.498	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	198	99.0	200	0.351	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 30A @ 0-6' (H244136-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.92	96.1	2.00	3.58		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.4	2.00	6.03		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	10.1		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.24	104	6.00	11.7		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	07/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	212	106	200	0.498	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	198	99.0	200	0.351	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 31 @ 0-6' (H244136-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.92	96.1	2.00	3.58		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.4	2.00	6.03		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	10.1		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.24	104	6.00	11.7		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	07/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	212	106	200	0.498	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	198	99.0	200	0.351	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: SW - 32A @ 0-6' (H244136-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2024	ND	1.92	96.1	2.00	3.58		
Toluene*	<0.050	0.050	07/11/2024	ND	1.99	99.4	2.00	6.03		
Ethylbenzene*	<0.050	0.050	07/11/2024	ND	2.10	105	2.00	10.1		
Total Xylenes*	<0.150	0.150	07/11/2024	ND	6.24	104	6.00	11.7		
Total BTEX	<0.300	0.300	07/11/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	07/11/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2024	ND	212	106	200	0.498	
DRO >C10-C28*	<10.0	10.0	07/11/2024	ND	198	99.0	200	0.351	
EXT DRO >C28-C36	<10.0	10.0	07/11/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name:

BTA Oil Producers, LLC

Site Manager:

Project Name:

Ray Ramos

ANALYSIS REQUEST

Project Location:
(county, state) Harroun Ranch Battery West Fire

Project #:
432-313-1288

Invoice to: Loving, Lea County, NM

Project #:

Incident 148

Receiving Laboratory:

Ray Ramos, Incident 148

Sampler Name:

Arthuro Sanchez

Comments:

Cardinal Laboratory

Sampler Signature:

Reference Incident 148 on invoice

LAB #
H344134

LAB USE ONLY

SAMPLE IDENTIFICATION

21

SW-324 00-61

YEAR: 2024

DATE

TIME

WATER

SOIL

HCL

HNO₃

ICE

CONTAINERS

FILTERED (Y/N)

BTEX 8021B

TPH 8015M (GRO - DRO - ORO - MRO)

Chloride

Hold

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Arthuro Sanchez 7-11-24

Received by:

Date: Time:

Received by:

Date: Time:

Relinquished by: 7-11-24 1055

LAB USE ONLY

REMARKS: Standard TAT

☒ RUSH: Same Day 24 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature
3.8°C

#140

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 11, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/11/2024	Sampling Type:	Water
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Shalyn Rodriguez
Project Location:	LOVING, NM		

Sample ID: BH - 151 - GW (H244137-01)

BTEX 8021B		mg/L		Analyzed By: JH				HDSP-1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	07/11/2024	ND	0.020	102	0.0200	2.49	
Toluene*	<0.001	0.001	07/11/2024	ND	0.021	105	0.0200	3.48	
Ethylbenzene*	<0.001	0.001	07/11/2024	ND	0.022	108	0.0200	7.09	
Total Xylenes*	<0.003	0.003	07/11/2024	ND	0.070	117	0.0600	7.70	
Total BTEX	<0.006	0.006	07/11/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 77.5-125

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	36700	4.00	07/11/2024	ND	100	100	100	0.00	

TPH 8015M		mg/L		Analyzed By: MS				HDSP-1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<1.00	1.00	07/11/2024	ND	50.8	102	50.0	4.67	
DRO >C10-C28*	<1.00	1.00	07/11/2024	ND	45.8	91.7	50.0	6.35	
EXT DRO >C28-C36	<1.00	1.00	07/11/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 71.5-140

Surrogate: 1-Chlorooctadecane 107 % 60.4-151

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

HDSP-1	Sample container had headspace. Results may be biased low.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

BTA Oil Producers, LLC
104 S. Pecos Street
Midland, Texas 79701

Client Name:

BTA Oil Producers, LLC

Site Manager:

Ray Ramos

Project Name:

Harroun Ranch Battery West Fire

Project Location:

Loving, Lea County, NM

Project #:

432-313-1288

Invoice to:

Ray Ramos, Incident 148

Sample Name:

Receiving Laboratory:

Cardinal Laboratory

Sample Signature:

Comments:

Reference Incident 148 on invoice

ANALYSIS REQUEST

LAB #
(LAB USE ONLY)

SAMPLE IDENTIFICATION

SAMPLING
YEAR: 2024
DATE
TIME

MATRIX
PRESERVATIVE METHOD

WATER
SOIL
HCL
HNO₃
ICE

CONTAINERS
FILTERED (Y/N)

BTEX 8021B
TPH 8015M (GRO - DRO - ORO - MRO)
Chloride

Hold

Inquired by:

Date: Time:

Inquired by:

Date: Time:

Inquired by:

Date: Time:

-customer was informed samples are in improper container

Received by:

Date: Time:

Received by:

Date: Time:

REMARKS:

Standard TAT

☒ RUSH

Same Day

24 hr

48 hr

72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

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(Circle) HAND DELIVERED FEDEX UPS Tracking #:



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 22, 2024

RAY RAMOS

BTA Oil Producers

104 South Pecos

Midland, TX 79701

RE: HARROUN WEST BATTERY - FIRE

Enclosed are the results of analyses for samples received by the laboratory on 07/19/24 11:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/19/2024	Sampling Date:	07/19/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: BH - 121 @ 4-4.5' (H244336-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	1.94	96.9	2.00	12.3	
Toluene*	<0.050	0.050	07/19/2024	ND	1.92	96.0	2.00	10.8	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.72	95.4	6.00	10.6	
Total BTEX	<0.300	0.300	07/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	07/22/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	209	105	200	4.60		
DRO >C10-C28*	60.4	10.0	07/19/2024	ND	216	108	200	8.69		
EXT DRO >C28-C36	19.6	10.0	07/19/2024	ND						

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/19/2024	Sampling Date:	07/19/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: BH - 122 @ 4-4.5' (H244336-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2024	ND	1.94	96.9	2.00	12.3	
Toluene*	<0.050	0.050	07/19/2024	ND	1.92	96.0	2.00	10.8	
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	10.2	
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.72	95.4	6.00	10.6	
Total BTEX	<0.300	0.300	07/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/22/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	209	105	200	4.60	
DRO >C10-C28*	66.4	10.0	07/19/2024	ND	216	108	200	8.69	
EXT DRO >C28-C36	22.0	10.0	07/19/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BTA Oil Producers
 RAY RAMOS
 104 South Pecos
 Midland TX, 79701
 Fax To: (432) 683-0312

Received:	07/19/2024	Sampling Date:	07/19/2024
Reported:	07/22/2024	Sampling Type:	Soil
Project Name:	HARROUN WEST BATTERY - FIRE	Sampling Condition:	Cool & Intact
Project Number:	INCIDENT 148	Sample Received By:	Tamara Oldaker
Project Location:	LOVING, NM		

Sample ID: SW - 50 @ 0-4' (H244336-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/19/2024	ND	1.94	96.9	2.00	12.3		
Toluene*	<0.050	0.050	07/19/2024	ND	1.92	96.0	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/19/2024	ND	1.95	97.3	2.00	10.2		
Total Xylenes*	<0.150	0.150	07/19/2024	ND	5.72	95.4	6.00	10.6		
Total BTEX	<0.300	0.300	07/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/22/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2024	ND	209	105	200	4.60	
DRO >C10-C28*	56.4	10.0	07/19/2024	ND	216	108	200	8.69	
EXT DRO >C28-C36	16.0	10.0	07/19/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

Remediation Report
BTA Oil Producers, LLC
Harroun Ranch West Fire
Incident ID# nAPP2411724780

August 19, 2024

ATTACHMENT 3 – PHOTOGRAPHIC DOCUMENTATION









































Remediation Report
BTA Oil Producers, LLC
Harroun Ranch West Fire
Incident ID# nAPP2411724780

August 19, 2024

ATTACHMENT 4 – SEED MIXTURE DETAILS

NMSLO Seed Mix**Loamy (L)****LOAMY (L) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Black grama	VNS, Southern	1.0	D
Blue grama	Lovington	1.0	D
Sideoats grama	Vaughn, El Reno	4.0	F
Sand dropseed	VNS, Southern	2.0	S
Alkali sacaton	VNS, Southern	1.0	
Little bluestem	Cimarron, Pastura	1.5	F
Forbs:			
Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
Total PLS/acre		18.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



From: [Terhune, Chuck](#)
To: [Wells, Shelly, EMNRD](#)
Subject: Re: [EXTERNAL] RE: NAPP2411724780 HARROUN RANCH EAST BATTERY - FIRE
Date: Thursday, September 26, 2024 3:52:33 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

Ill have to look again once i can get back on our server in the morning. But if my memory serves correctly that spot is down in the pasture south of the pad. If that is correct, we probably did not resample if it met reclamation and background chloride levels in the shallow sample. We took the whole area down to 6 feet though out of efficiency since we only had those two spots that were clean at that depth. At 6 feet we are basically at the groundwater capillary fringe so any sample there would have basically been representative of groundwater.

Sent from my Verizon, Samsung Galaxy smartphone
Get [Outlook for Android](#)

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, September 26, 2024 4:37:32 PM
To: Terhune, Chuck <Chuck.Terhune@tetrattech.com>
Subject: RE: [EXTERNAL] RE: NAPP2411724780 HARROUN RANCH EAST BATTERY - FIRE

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Hi Chuck,

Thank you for clarifying the locations of the sidewalls. I still am not sure I understand what happened with BH-146 and BH-149. It looks like they were not resampled when the excavation was dug deeper.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
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<http://www.emnrd.state.nm.us/OCD/>

From: Terhune, Chuck <Chuck.Terhune@tetrattech.com>
Sent: Thursday, September 26, 2024 2:33 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: [EXTERNAL] RE: NAPP2411724780 HARROUN RANCH EAST BATTERY - FIRE

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Good afternoon Shelly,

SW-6D does not appear on Figure 5 because it was overexcavated and resampled with sampled SW-6E, both locations are shown in the attached, SW-48 and SW-49 were added to expanded excavation areas so do not appear where expected, please see attached for your reference.

Yes... some of the sample names indicate the wrong depths because the samplers that were on site at that time were following sample IDs Tetra Tech provided based on the workplan, when impacts were encountered and they dug deeper before sampling, the samplers were not adjusting the sample ID's to reflect the actual sample depths. This was an issue for us on this project for a number of the samples. The sample intervals for the samples which we had this issue for are highlighted in lavender in the tables with a note at the bottom of the table explaining. These two samples in particular the sampler was confused about recording the sample interval once again and got the nomenclature confused with that of sampling sidewalls after I was trying to get them on the right track.

Please let me know if there are any other clarifications or requests, I am travelling currently and my VPN is spotty, but my cell phone services is good if you would like to call and discuss anything this afternoon.

Best Regards,

Chuck Terhune, P.G. | Program Manager
Mobile +1 (281) 755-8965 | Business +1 (832) 251-5160
chuck.terhune@tetrattech.com

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From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Thursday, September 26, 2024 3:13 PM

To: Terhune, Chuck <Chuck.Terhune@tetrattech.com>

Subject: NAPP2411724780 HARROUN RANCH EAST BATTERY - FIRE

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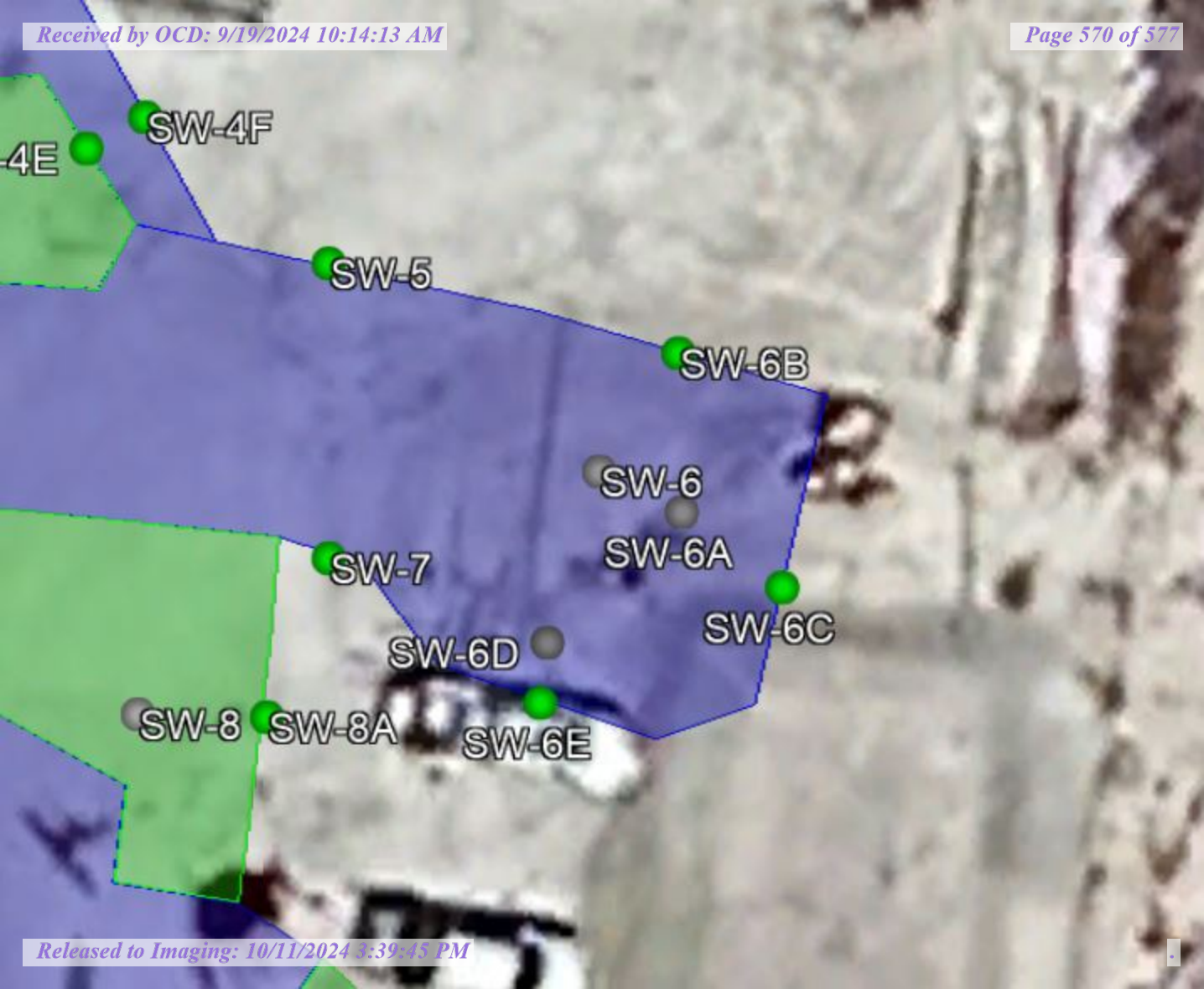
Hi Chuck,

I am reviewing the submitted remediation plan for NAPP2411724780 HARROUN RANCH EAST BATTERY – FIRE and have a few questions for you. Maybe I am just not seeing them but can you take a look and let me know where SW-6D, SW-48 and SW-49 are located. I think they are missing from Figure 5. Also BH-146 and BH-149 say they were collected at 2-2.5' however they are labeled within the 6 foot excavation area. Can you explain?

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 385054

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	385054
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2411724780
Incident Name	NAPP2411724780 HARROUN RANCH EAST BATTERY - FIRE @ 0
Incident Type	Fire
Incident Status	Remediation Plan Approved
Incident Facility	[fAPP2129830694] Harroun Ranch East

Location of Release Source	
Please answer all the questions in this group.	
Site Name	HARROUN RANCH EAST BATTERY - FIRE
Date Release Discovered	04/25/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	Yes
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Fire Production Tank Crude Oil Released: 580 BBL (Unknown Released Amount) Recovered: 0 BBL Lost: 580 BBL.
Produced Water Released (bbls) Details	Cause: Fire Tank (Any) Produced Water Released: 1,200 BBL Recovered: 0 BBL Lost: 1,200 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	4/25/24 fire consumed the facility. Emergency response activities were immediately initiated by local FD. Service trucks were immediately dispatched to recover all free standing fluids.

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QUESTIONS, Page 2

Action 385054

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	385054
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire; (d) substantially damages property or the environment.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Chuck Terhune Email: chuck.terhune@tetrattech.com Date: 04/29/2024
--	--

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QUESTIONS, Page 3

Action 385054

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	385054
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	6560
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3475
GRO+DRO (EPA SW-846 Method 8015M)	2520
BTEX (EPA SW-846 Method 8021B or 8260B)	69.9
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	06/05/2024
On what date will (or did) the final sampling or liner inspection occur	06/06/2024
On what date will (or was) the remediation complete(d)	07/12/2024
What is the estimated surface area (in square feet) that will be reclaimed	15000
What is the estimated volume (in cubic yards) that will be reclaimed	2250
What is the estimated surface area (in square feet) that will be remediated	47000
What is the estimated volume (in cubic yards) that will be remediated	7000

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 385054

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:	260297
	Action Number:	385054
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	Yes
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 09/19/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 385054

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	385054
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 385054

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	385054
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	364138
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/19/2024
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	1000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 385054

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 385054
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	The soil remediation report is approved. The groundwater workplan will be handled under Part 30.	10/11/2024