



March 25, 2024

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Remediation Report and Closure Request
Maverick Permian, LLC
EVGSAU 3366-029 Flowline Release
Unit Letter E, Section 33, Township 17 South, Range 35 East
Lea County, New Mexico
Incident IDs# nJXK1609752883 and nPRS0420835421**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was initially contracted by ConocoPhillips (COP) to assess a historical release that occurred from a flowline associated with the EVGSAU 3366-029 flowline (API No. 30-025-21223). The release footprint is located in the Public Land Survey System (PLSS) Unit Letter E Section 33, Township 17 South, Range 35 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.792949°, -103.470266°, as shown in **Figure 1** and **Figure 2**. In 2022 Maverick Permian LLC (Maverick) acquired the Site from COP, began operating the Site in June 2022, and undertook the remediation activities described in this report.

BACKGROUND

nPRS0420835421

According to the State of New Mexico OCD Permitting portal information, operations personnel discovered a 3-inch flowline leak on March 29, 2004, the result of external corrosion. Approximately 62 barrels (bbls) of produced water were reported released from the flowline and approximately 61 bbls of fluid were reported recovered by vac truck during the initial release. Immediate action included shutting in the well, repair of the flowline, and recovery of fluids. The initial C-141 report form is listed as submitted to the New Mexico Oil Conservation District (NMOCD) on July 26, 2004, and subsequently assigned the release Incident ID JXK1609752883. This release emanated from the same location as Incident ID nPRS0420835421 that occurred in 2016 as described below. The subsequent assessment and remediation activities described in this report under Incident ID nPRS0420835421 also cover this release.

nJXK1609752883

According to the State of New Mexico C-141 Initial Report, operations personnel discovered the flowline leak during routine checks on April 4, 2016. Approximately 5.77 barrels (bbls) of produced water and 10 bbls of oil were reported released from the flowline and approximately 10 bbls of fluid were reported recovered. The fluids migrated north-northeast along a low-lying area running parallel to a buried underground pipeline. Immediate action included isolating the well to repair the flowline in the battery facility. The initial C-141 report form was submitted to the New Mexico Oil Conservation District (NMOCD) on April 6, 2016, and subsequently assigned the release Incident ID nJXK1609752883. This release is included in an Agreed Compliance Order-Releases (ACO-R) between COP and the NMOCD fully executed on May 9, 2019.

The original C-141 Form associated with this release was previously submitted to the NMOCD in the NMOCD-rejected COP *Interim Closure Report* dated April 13, 2021, submitted to the NMOCD on March 13, 2021, and again on October 21, 2022, and is available in the NMOCD Permitting portal under Incident ID nJXK1609752883.

Tetra Tech, Inc.

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SITE CHARACTERIZATION

Receptors

Tetra Tech performed a Site characterization that identified no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). According to the NMOCD Oil and Gas Map online, the Site is in an area of low karst potential. Receptor site characterization data is included in **Attachment 1**.

Depth to Groundwater

According to the New Mexico Office of State Engineer's (NMOSE) Reporting System, there are three (3) water wells within ½ mile of the Site with an average depth to groundwater of 80 feet below ground surface (bgs). The depth to groundwater determination 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 Kimbrough-Lea complex, dry, 0 to 3 Percent Slopes, which is classified as a loam soil. 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 (RRALs) for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), Total Petroleum Hydrocarbons (TPH), and chloride in soil.

Based on the site characterization accepted by the NMOCD in the Interim Closure Report and previous submissions related to Incident nJXK1609752883, and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site for groundwater between 51 and 100 feet bgs are as follows:

Closure Criteria for Soils Impacted by a Release

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

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Reclamation Requirements

Constituent	Remediation RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

INITIAL RESPONSE ACTIVITIES

In accordance with 19.15.29.8. B. (4) NMAC “the responsible party may commence remediation immediately after discovery of a release”, COP elected to begin initial remedial response and assessment of the impacted area in 2016. The visibly impacted soil in the release footprint was excavated by COP personnel with heavy equipment to approximately six inches bgs to remove the stained surface soils. During the initial response activities, liner material was observed at the surface in the southern portion of the release footprint and was assumed to be part of a former closed reserve pit. **Figure 3** depicts the release extent and initial response excavation area. Visibly impacted soil was excavated from an area equaling approximately 4,000 square feet during initial response activities.

INITIAL SITE ASSESSMENT

Initial Assessment Soil Sampling

Tetra Tech and their drilling subcontractor mobilized to the Site on August 9, 2017, to advance three (3) soil borings (SB-1 through SB-3) to define the extent of the impacted soils outside the assumed reserve pit footprint. Soil borings SB-1, SB-2, and SB-3 were drilled to total depths of 55, 20, and 25 feet bgs, respectively. The soil samples were field screened for organic vapors with a PID and chlorides with an ExStik. Selected samples were placed into laboratory-provided sample containers and transferred under chain of custody documentation to Pace Analytical Laboratory (Pace) for analysis of TPH by Method 8015M, and chloride by Method 300.0. Selected samples were analyzed for BTEX by Method 8260B. **Figure 3** depicts the release extent with the soil boring locations and soil boring location coordinates are presented in **Table 1**.

Initial Assessment Sampling Results

The laboratory analytical results from the August 2020 soil sampling event are summarized in **Table 2** screened against Reclamation Requirements. The laboratory analytical results for the samples analyzed reported concentrations of BTEX and TPH as less than Reclamation Requirements with the exception of the sample collected from SB-1 from the 2-3 foot depth interval which reported TPH at a concentration greater than the Reclamation Requirement. Chloride was reported at concentrations less than the Reclamation Requirement with the exception of samples collected from SB-1 and SB-3 from the 0-1 foot bgs depth interval. The laboratory analytical data packages including chain-of-custody documentation for Assessment Sampling are included in **Attachment 2**.

INITIAL REMEDIATION WORK PLAN

Based on the analytical results, COP proposed soil excavation and disposal in the areas of boring SB-1 and SB-3 to a depth of 4 feet bgs and the installation of a 40-mil poly liner in the excavation bottom to cap remaining chlorides in the subsurface soils, as shown on **Figure 3**. The excavation would then be backfilled with clean material to surface grade.

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Within the revised Work Plan submitted to NMOCD on March 12, 2018, the remediation activities are described. The revised Work Plan is available on the NMOCD Imaging website. Tetra Tech has been unable to locate the email correspondence between NMOCD and COP indicating NMOCD's approval of the revised Work Plan.

INITIAL REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

Tetra Tech mobilized to the Site between January 21 and 30, 2019, to supervise the excavation and remediation activities. The excavation contractor excavated the remediation area to a depth of 4 feet bgs with plans to install a liner as shown in **Figure 4**. Approximately 540 cubic yards of material were transported for disposal to the R360 Halfway Landfill facility in Hobbs, New Mexico. Excavation widths and depths were guided based on the assessment and confirmation sampling data to remove impacted soils. During remedial activities, on-site personnel discovered liner material at the ground surface in the vicinity of SSW-2. Remedial activities were halted, and the excavation area south of SSW-2 was not expanded any farther so as to not disturb the assumed closed reserve pit.

Initial Remediation Confirmation Sampling

Confirmation samples were collected from the sidewalls and floors of the excavations to confirm that the impacted materials were properly removed. A total of 16 confirmation samples were collected during the remedial activities as shown in **Figure 3**. A total of three (3) floor samples (AH-1 through AH-3) and 13 sidewall samples were collected. Floor and sidewall confirmation samples were field screened for chlorides with an ExStik prior to collection into laboratory-supplied sample containers.

Confirmation samples were submitted to Pace for analysis of BTEX by method 8260B, TPH by Method 8015M, and chloride by Method 300.0. Laboratory analytical results reported BTEX, TPH, and chloride concentrations as less than Reclamation Requirements or Remediation RRALs, as applicable, with the exception of sidewall samples SSW-2 and WSW-2. The excavation was laterally expanded in the areas where the initial WSW-2 and SSW-2 sidewall samples were collected. The excavation near WSW-2 sample location was extended to include the soil below a set of polylines. The impacted soils were removed and are bound to the west by ESW-3. Final ESW-3, WSW-2, and SSW-2 sidewall confirmation sample locations were over-excavated during the Additional Remediation discussed below.

ESW-2 lies within the path of numerous flowlines and at the intersection of flowlines running west-northwest to east-southeast and a flowline running from east-northeast to west-southwest. This area is considered an area in active use for production operations and therefore does not need to be reclaimed in accordance with 19.15.29.13 D. ESW-2 is delineated laterally and vertically to Reclamation Requirements by samples collected from assessment sampling locations BH-20-3 and BH-20-3S, Initial Remediation sample location AH-2, and Additional Remediation sample locations SW-1 and SW-9. This area is proposed to be reclaimed during the plugging and abandonment of EVGSAU 3366-029 and the reclamation well pad and associated flowlines.

Confirmation sample laboratory analytical results screened against Reclamation Requirements and RRALs are summarized in **Table 3** and **Table 4** and laboratory analytical data packages including chain of custody documentation for Initial Remediation are included in **Attachment 3**

Initial Remediation Liner Installation and Excavation Backfill

Subsequent to the receipt of confirmation sample results, the excavation contractor installed a 40-mil poly liner in the base of the excavation. The excavation was then backfilled with clean material to surface grade. Photographic documentation of the Initial Remediation activities is included in **Attachment 6**.

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ADDITIONAL SITE ASSESSMENT

Additional Assessment Sampling

To characterize the impacted area more fully, Tetra Tech conducted Additional Site Assessment soil sampling on May 21, 2020, in the vicinity of the release area. Three (3) borings (BH-20-1S through BH-20-3S) were installed using an air rotary drilling rig in the vicinity of the release footprint as shown in **Figure 5**. Two borings (BH-20-1S, and BH-20-3S) were installed to a depth of 5 feet bgs to the west and east of the release footprint. One boring (BH-20-2S) was installed within the release footprint south of the area excavated and backfilled in January 2019 to vertically delineate the previously unaddressed release area.

BH-20-3 was installed using an air rotary drilling rig to characterize an unrelated, adjacent footprint associated with duplicate Incident IDs nPAC0605541294 and nPRS0414755359 on May 21, 2020. Boring BH-20-3 was completed east of the historic release area, to a depth of 5 feet bgs to achieve horizontal delineation, and acts as delineation of the nJXK1609752883 extent to the north.

A total of 14 samples were collected from these four (4) borings and submitted to Pace Analytical Laboratory in Mount Juliet, Tennessee (Pace National) for analysis of BTEX by Method 8260B, TPH by Method 8015M, and chloride by Method 300.0.

Additional Assessment Sampling Results

The laboratory analytical results from the May 2020 Additional Assessment Sampling event are summarized in **Table 2** screened against Reclamation Requirements. The laboratory analytical results for the samples analyzed reported concentrations of BTEX, TPH, and chloride as less than Reclamation Requirements or Remediation RRLs, as applicable, with the exception of samples collected from BH-20-2S from the 0-1 foot and 2-3 foot bgs sample intervals which reported chloride concentrations as greater than the Reclamation Requirement. The laboratory analytical data packages including chain-of-custody documentation for Additional Assessment Sampling are included in **Attachment 4**.

ADDITIONAL REMEDIATION WORK PLAN

Based on the analytical results, COP proposed to remove the remaining impacted material in the vicinity of BH-20-2S as shown in **Figure 6**. Impacted soils within the release extent southwest of the January 2019 remediation area to be excavated using heavy equipment to a maximum depth of 4 feet bgs. Excavated soils to be transported offsite and disposed of at an NMOCD-approved disposal facility. Following soil removal, the excavation will be backfilled with clean material to surface grade. The COP estimated the volume of material to be remediated approximately 580 cubic yards.

Additionally, the Interim Closure Report requested the following variance from 19.15.29.12 D(1) NMAC:

"After characterization of this release, COP proposes a variance request from 19.15.29.12 D(1) NMAC for collecting confirmation samples within the assumed closed reserve pit extent. Based on the analytical results associated with boring location BH-20-2S, soils below four (4) feet bgs within the release footprint are below Site RRLs and do not pose a risk to groundwater in the area. Furthermore, depth to groundwater in the area is approximately 80 feet bgs.

Thus, in accordance with 19.15.29.14(A) NMAC, ConocoPhillips requests a variance for the placement of a liner within the excavated area as an alternative to confirmation sampling. The liner will be properly seated at the base of the excavation to impede residual chloride in soil moving upward into the rooting zone via capillary action. The liner will be domed and thus also provide an engineering control that will serve as a barrier to surface water infiltration and thus inhibit the downward migration of residual constituents from any

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remaining impacted soil beneath the liner. Because the liner is emplaced, it will provide equal or better protection of fresh water, human health and the environment. The liner will impede any residual chloride in soil from leaching into the surficial layers of non-waste containing, uncontaminated, earthen material."

NMOCD REJECTION OF INTERIM CLOSURE REQUEST

On October 21, 2022, the NMOCD rejected the Interim Closure Request the Additional Remediation Work Plan and COP Variance Request. This section responds to relevant NMOCD comments to provide clarification, further detail, and/or actions taken by Maverick where appropriate in response to NMOCD comments. To provide clarity, the NMOCD rejection comments are reiterated below along with Maverick's response.

"Numerous samples do not meet the closure requirements of 19.15.29 NMAC. SSW-2, WSW-2, and AH-2 are above the reclamation standard of 600 mg/kg for chloride"

During the Additional Remediation undertaken by Maverick discussed below, Maverick over-excavated the area of SSW-2 and WSW-2 where samples from the Initial Remediation reported chloride concentrations as greater than the Reclamation Requirement of 600 mg/kg as shown in **Figure 6**.

AH-1 is a floor confirmation sample collected from 4 feet bgs and deeper from the base of the westernmost 4-foot excavation as shown in **Figure 4**. Based on the NMOCD accepted depth-to-groundwater characterization previously submitted in the *Work Plan for the ConocoPhillips Company, EGSAU 3366-029* work plan dated March 6, 2018 (see NMOCD Online Imaging 1RP-4233), and the Interim Closure Request submitted on April 13, 2021, and October 21, 2022, the Remediation RRAL for chloride for this sample is 10,000 mg/kg and no further action is required at this location.

"ESW-2 is above the reclamation standard of 100 mg/kg for TPH Variance request is denied"

Sample ESW-2 is a sidewall confirmation sample collected from the eastern excavation wall of the easternmost Initial Remediation excavation. This location lies within the path of numerous flowlines and at the intersection of flowlines running west-northwest to east-southeast and a flowline running from east-northeast to west-southwest. It is Maverick's position that a variance is not required in this area as it is in active use for production operations and therefore does not need to be reclaimed in accordance with 19.15.29.13 D.

ESW-2 is delineated laterally and vertically to Reclamation Requirements by samples collected from assessment sampling locations BH-20-3 and BH-20-3S, Initial Remediation sample location AH-2, and Additional Remediation sample locations SW-1 and SW-9. Maverick proposes to reclaim the area of ESW-2 during the plugging and abandonment of EVGSAU 3366-029 and reclamation well pad and associated flowlines.

"In Appendix G there are laboratory reports with samples that are not included on the maps or table. BH-20-1 (2-3) returned results of 1,170 mg/kg for chloride. BH-20-2 (0-1) returned results of 1,290 mg/kg for chloride and 1,101 mg/kg for TPH. BH-20-2 (2-3) returned results of 1,320 mg/kg for chloride. BH-20-2 (4-5) returned results of 1,160 mg/kg for chloride. BH-20-1, BH-20-2, BH-20-4, and BH-20-5 are not illustrated on the map or included in the tables. These sample points will need to be included on maps and tables. Based on the analytical results, additional remediation is warranted in these areas."

The Interim Closure Request states "One of the boring locations shown on Figure 5 (BH-20-3) was installed using an air rotary drilling rig to characterize an unrelated, adjacent footprint on May 21, 2020." In the Additional Site Assessment Section. The referenced Pace National laboratory analytical report L1223523 provided in **Attachment 4** associated with BH-20-3 contains analytical results from soil borings completed as part of the assessment of duplicate incidents nPAC0605541294 and nPRS0414755359. Both incidents

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have been remediated and are listed in the NMOCD Permitting portal with the Status of "Incident Closure Approved" on April 14, 2023, and May 23, 2022, respectively.

The figures, tabulated analytical data, and associated remediation activities for BH-20-1, BH-20-2, BH-20-4, and BH-20-5 are available in the NMOCD Permitting Portal in the NMOCD-approved COP *Closure Request* dated May 3, 2022, under Incident ID nPRS0414755359. No further action is warranted in association with this comment.

CULTURAL RESOURCES SURVEY

To comply with 1.10.15 NMAC and New Mexico State Land Office (NMSLO) requirements, Tetra Tech contracted SWCA Environmental Consultants to perform an Archaeological Records Management Section (ARMS) review for the Site.

SWCA performed a literature and file search on September 22, 2023, using the New Mexico Cultural Resources Information System online database which included a review of known cultural resources, such as the built environment, archaeological sites, and State/National Register-listed properties. Other sources reviewed include the Bureau of Land Management (BLM) General Land Office (GLO) Records website, which included land patent and general land office survey data. The review was conducted for the Area of Potential Effects (APE) and 1 km surrounding the APE. The land the proposed project is located on is part of the June 21, 1898: New Mexico Territorial Grant (30 Stat. 484) patented on May 26, 1909.

The ARMS review found the project area and surrounding 1 km have been subject to four (4) cultural resource surveys, two (2) of which are qualifying. One previously recorded site (LA 179703) is located outside of the project area but within the 1k search buffer. The project area is entirely located on NMSLO-managed lands and is completely covered by one (1) qualifying survey conducted within the last ten years (NMCRIS 131135). All remediation work will remain within the previously qualifying survey area.

No subsurface cultural materials were encountered during remediation activities. The redacted ARMS Review letter is included in **Attachment 6**.

MAVERICK ADDITIONAL REMEDIATION AND CONFIRMATION SAMPLING

Excavation activities commenced on December 18, 2023, and concluded on January 18, 2024. Maverick's subcontractor, McNabb Partners (McNabb) used heavy equipment to excavate impacted soil from the remediation areas to maximum depths of 4 feet bgs as shown in **Figure 6**. To avoid potential contact by heavy equipment with pressurized lines within the remediation area, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines where hydro-excavation and hand-digging were employed. McNabb excavated a total of 1,004 cubic yards of contaminated soil from an approximately 4,700 square foot area and transported the soil to R360 Halfway Disposal and Landfill in Hobbs, New Mexico for offsite disposal.

Additional Remediation Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 28 final confirmation samples including 19 floor samples and nine (9) side wall samples from the excavated areas. The remediation excavation confirmation sampling area was comprised of an approximately 4,700 square foot base and 1,250 square feet of sidewall for a total area of 5,900 square feet and a sampling density of approximately one confirmation sample per 213 square feet.

Confirmation 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. Laboratory analytical results for submitted confirmation samples reported concentrations of BTEX, TPH, and chloride as less than respective Reclamation

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Requirements for samples collected from depths shallower than 4 feet bgs. For all samples obtained at or below a depth of 4 feet bgs, laboratory analytical results reported constituent concentrations as less than Remediation RRALs and clean margins were demonstrated. Confirmation sampling locations and excavation extents are shown in **Figure 6**. Confirmation sampling locations and excavation extents of both the Initial and Additional Remediations are depicted in **Figure 7**.

Confirmation sample laboratory analytical results screened against Reclamation Requirements and Remediation RRALs are summarized in **Table 3** and **Table 4** and laboratory analytical data packages including chain of custody documentation for Additional Remediation are included in **Attachment 5**.

Additional Remediation Excavation Backfill

Between January 18 and 19, 2024, subsequent to the receipt of confirmation sample results, McNabb completed backfilling of the excavated areas with 854 cubic yards of clean soil, from Rancher Pit. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 7**.

Reclamation and Revegetation

To restore the impacted surface areas to the condition that existed prior to the release, the excavated areas have been backfilled with clean topsoil, and 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 areas of the Site were seeded with New Mexico State Land Office (NMSLO) Sandy (S) 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 raked in per the specifications for broadcast application in pound pure live seed per acre according to the NMSLO Seed Mix Loamy (L) data sheet provided in **Attachment 8**.

VARIANCE REQUEST

Tetra Tech and Maverick understand that failure to notify the NMOCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. The remediation associated with this incident was conducted concurrently with a number of other remediations during the 2023 holiday period between Thanksgiving and the 2024 New Year. Tetra Tech failed to notify the NMOCD of Additional Remediation sampling two business days in advance in accordance with 19.15.29.12.D.(1).(a). Tetra Tech respectfully requests a variance for the failure to notify the NMOCD of sampling in consideration of the significant changes to the NMOCD notification process and changes that were implemented by the NMOCD in early December 2023.

Tetra Tech has reviewed the C-141N notification process and NMOCD *Public Notice Implementation of Digital C-141 and Incident Statuses* document dated December 1, 2023, and has shifted to strictly adhering to the sampling notification requirements of 19.15.29.12.D.(1).(a) NMAC and NMOCD notification guidance. Tetra Tech is currently submitting C-141N notifications two business days prior to conducting any remediation confirmation sampling.

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CONCLUSION

Based on the results of the confirmation sampling, the impacted soil within the release footprint with chloride concentrations greater than Reclamation Requirements and/or remediation RRALs has been removed and properly disposed of offsite and the excavated area has been backfilled with clean material, graded, and seeded with NMSLO approved seed mixture; Initial Remediation sample ESW-2 in the upper 4 feet is in a location of active production and delineated laterally and vertically to Reclamation Requirements which is proposed to be reclaimed during reclamation of the EVGSAU 3366-029 well and well pad. Therefore, Site remediation is complete. A Reclamation Report for the Site will be submitted to the NMOCD under separate cover containing the NMOCD required information. If you have any questions concerning the remediation activities for the Site, please contact Charles Terhune by email at Charles.Terhune@tetrattech.com or by phone at (832) 252-2093.

Sincerely,



Chris Straub
Project Manager
Tetra Tech, Inc.



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

cc: Bryce Wagoner, Maverick Permian, LLC
New Mexico State Land Office

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LIST OF ATTACHMENTS

Figures

Figure 1 – Site Location Map
Figure 2 – Topographic Map
Figure 3 – Initial Response and Initial Assessment
Figure 4 – Initial Remediation Extent
Figure 5 – Additional Assessment Locations
Figure 6 – Additional Remediation Extent
Figure 7 – Combined Remediation Extent

Tables

Table 1 – Soil Assessment Locations
Table 2 – Summary of Analytical Results – Soil Assessment Sampling
Table 3 – Summary of Analytical Results – Shallow Remediation Confirmation Sampling
Table 4 – Summary of Analytical Results – Deep Remediation Confirmation Sampling

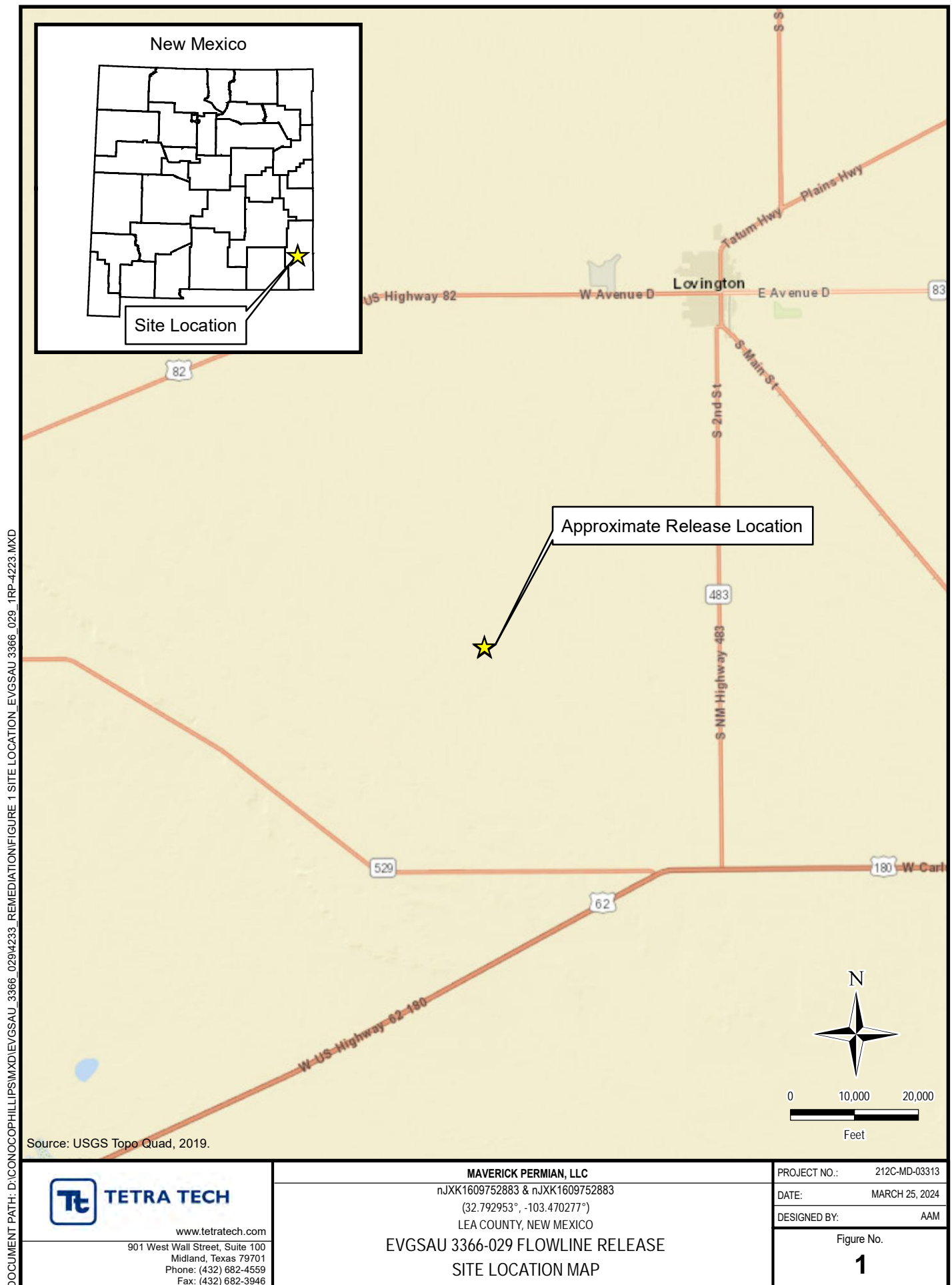
Attachments

Attachment 1 – Site Characterization Data
Attachment 2 – Initial Assessment Laboratory Data
Attachment 3 – Initial Remediation Laboratory Data
Attachment 4 – Additional Assessment Laboratory Data
Attachment 5 – Maverick Remediation Laboratory Data
Attachment 6 – ARMS Review Letter
Attachment 7 – Photographic Documentation
Attachment 8 – NMSLO Seed Mixture Details

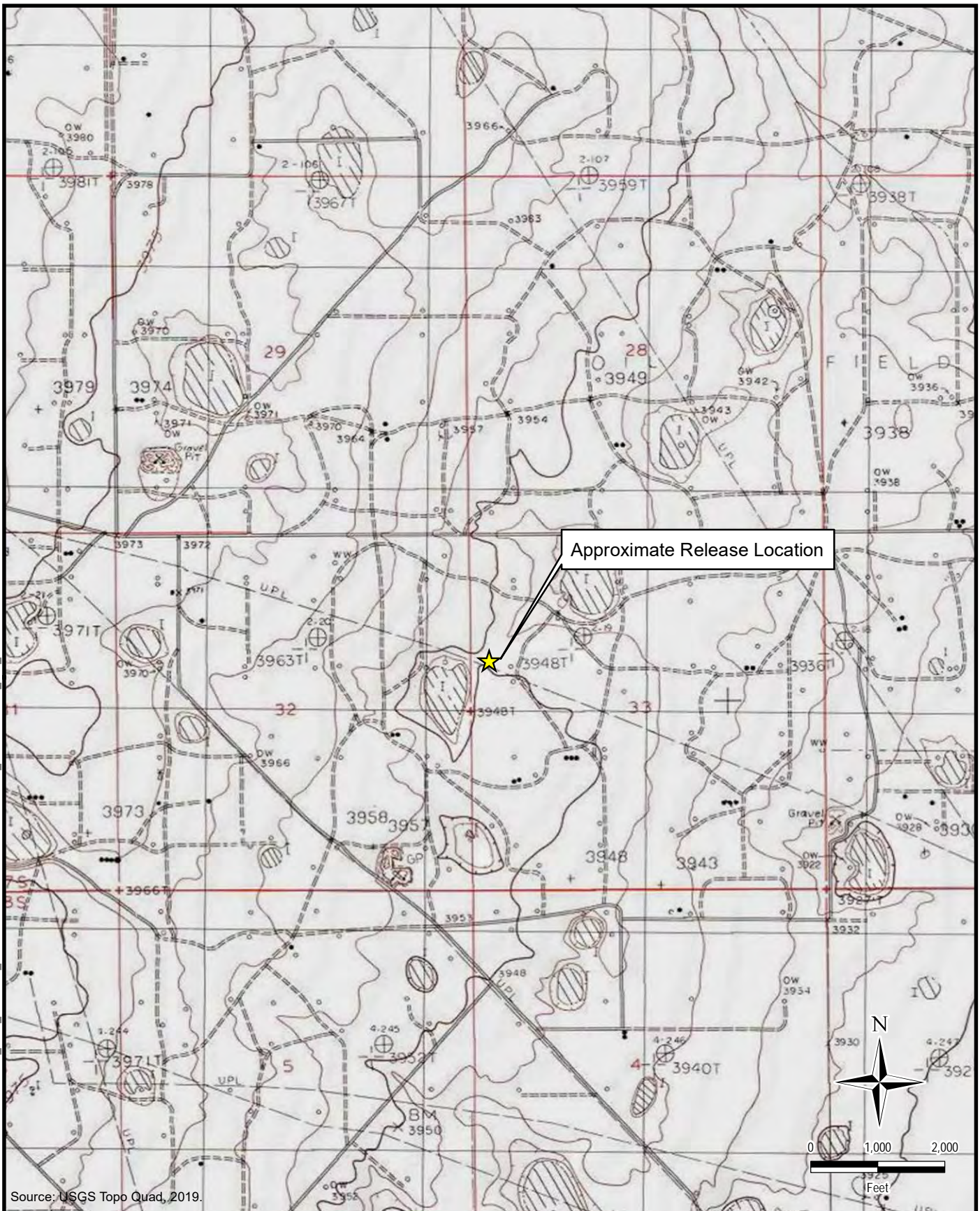
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FIGURES



DOCUMENT PATH: D:\CONOCOPHILLIPS\MXD\EVGSAU_3366_029\Figure 2 TOPO MAP EVGSAU 3366_029_1RP-4233.MXD

**TETRA TECH**

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MAVERICK PERMIAN, LLC

nJXK1609752883 & nJXK1609752883
(32.792953°, -103.470277°)
LEA COUNTY, NEW MEXICO

**EVGSAU 3366-029 FLOWLINE RELEASE
TOPOGRAPHIC MAP**

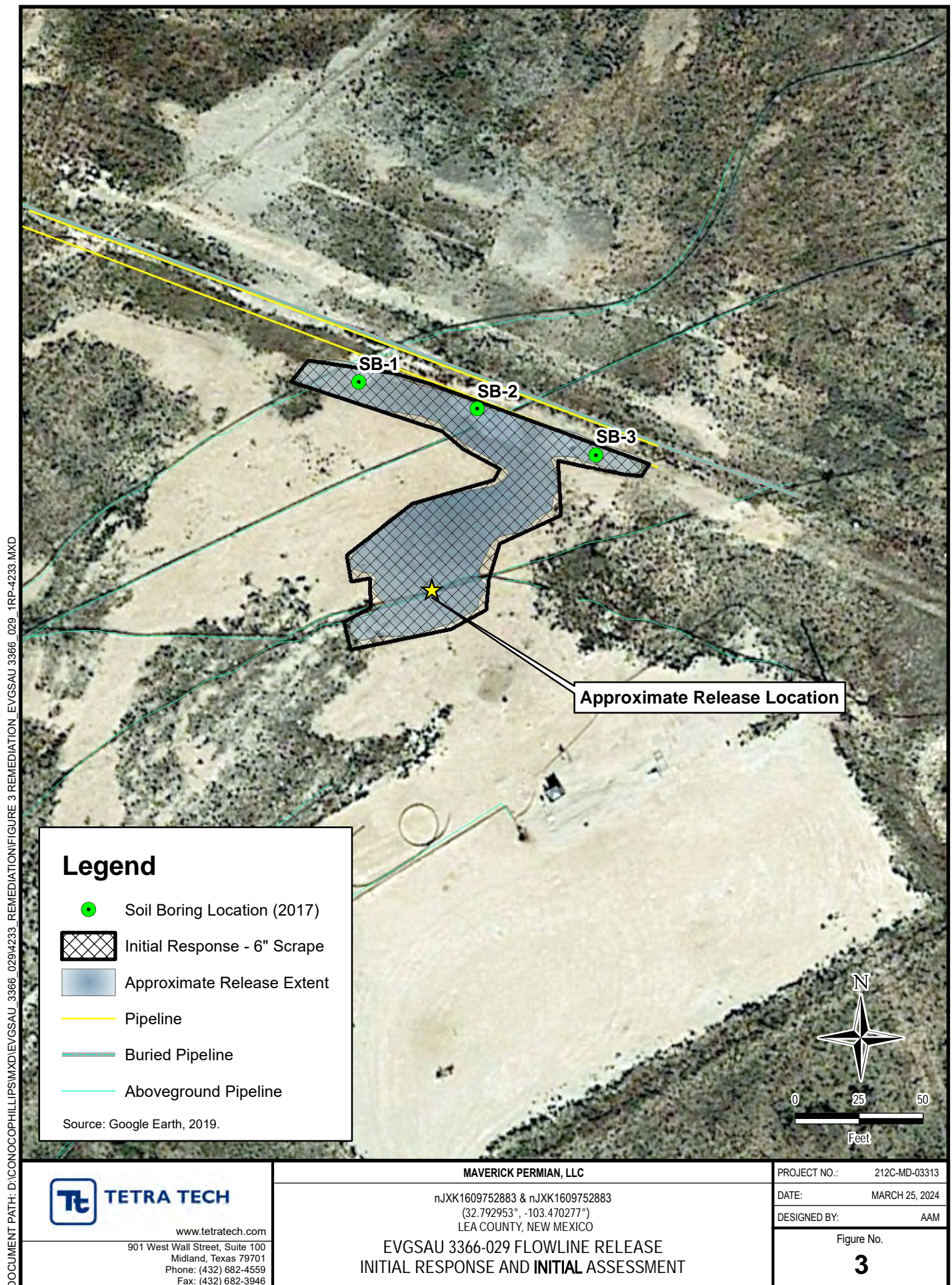
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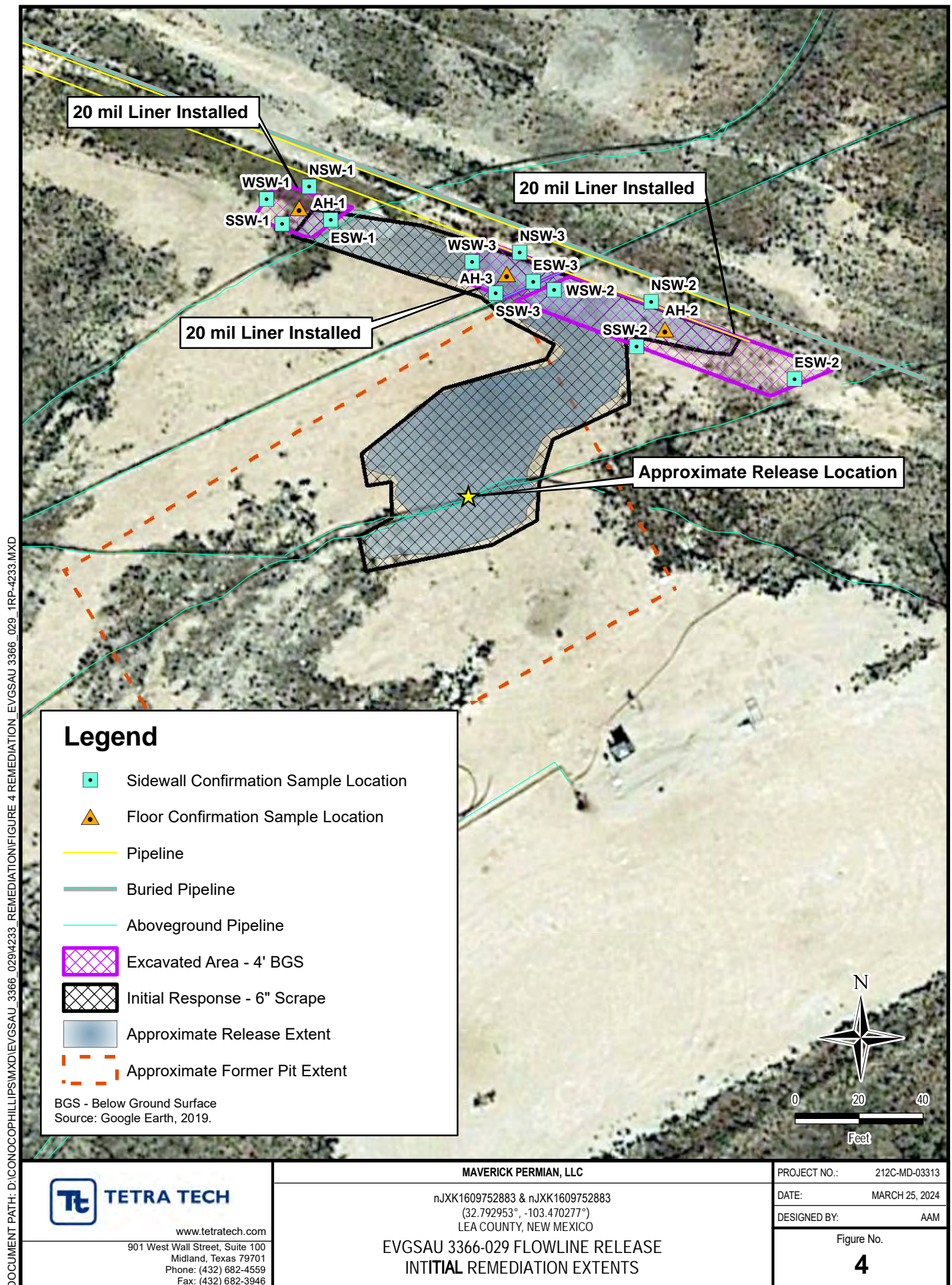
DATE: MARCH 25, 2024

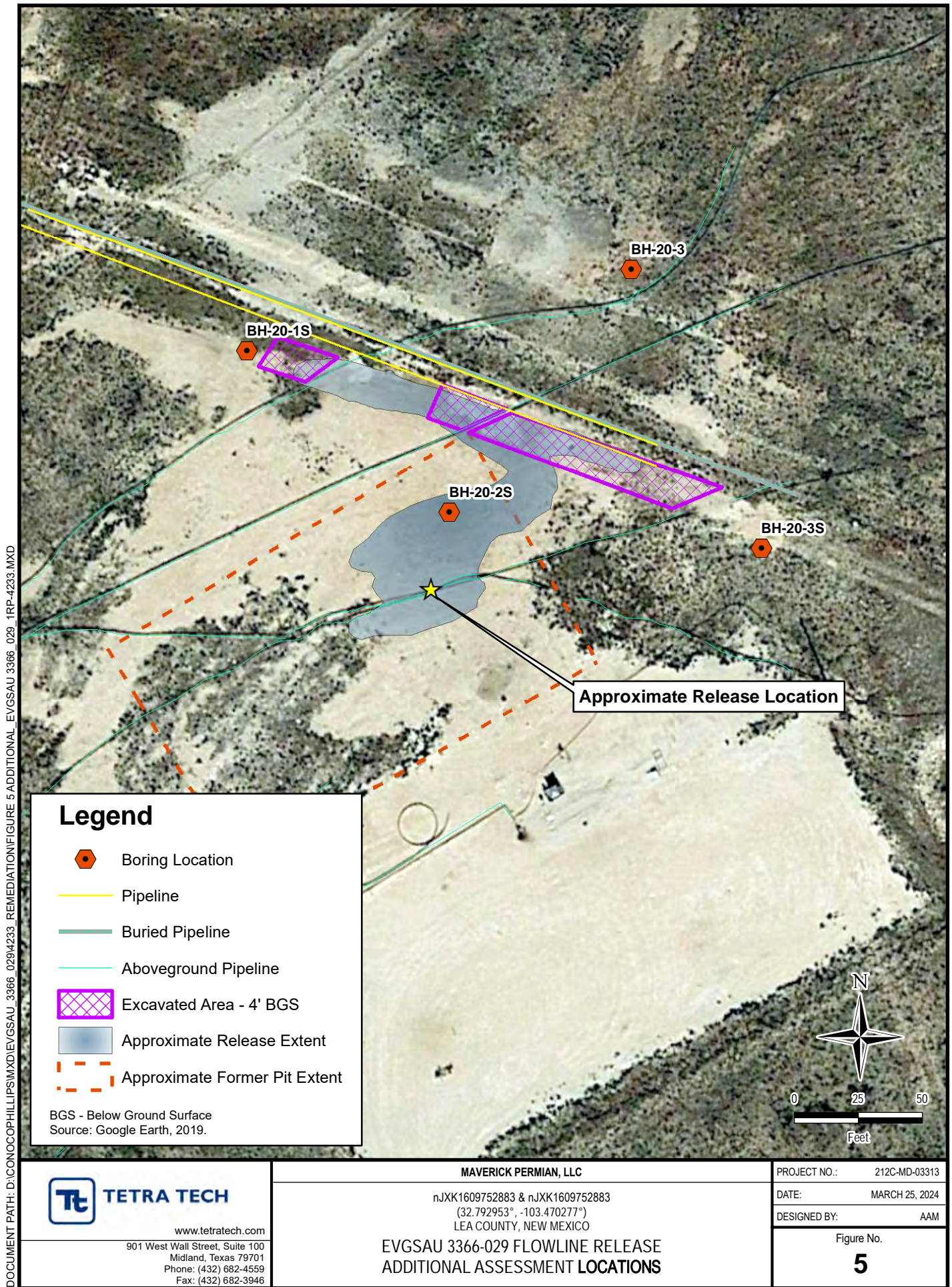
DESIGNED BY: AAM

Figure No.

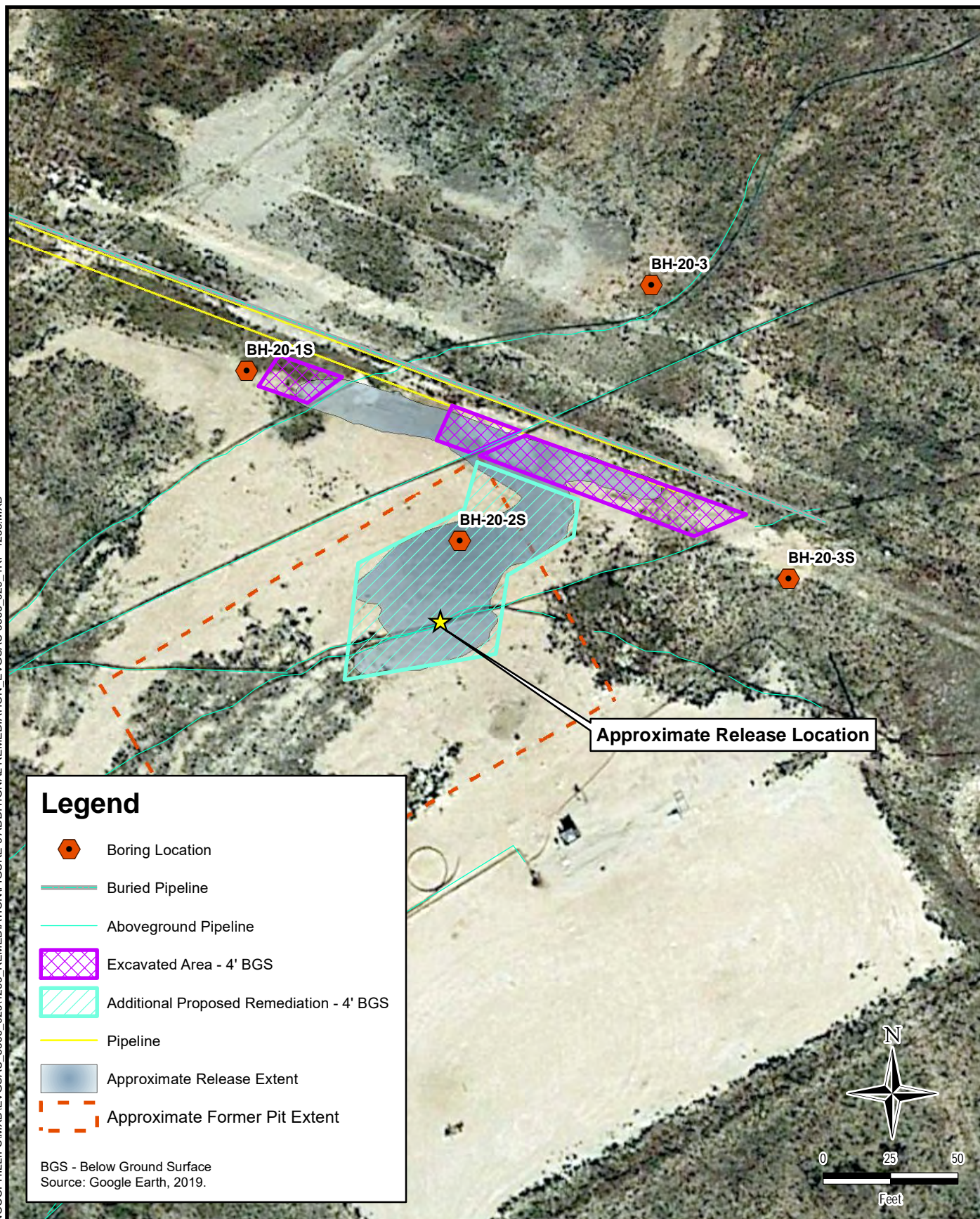
2







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**TETRA TECH**

www.tetrattech.com

901 West Wall Street, Suite 100
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Phone: (432) 682-4559
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MAVERICK PERMIAN, LLC

nJXK1609752883 & nJXK1609752883
(32.792953°, -103.470277°)
LEA COUNTY, NEW MEXICOEVGSAU 3366-029 FLOWLINE RELEASE
ADDITIONAL REMEDIATION EXTENT

PROJECT NO.: 212C-MD-03313

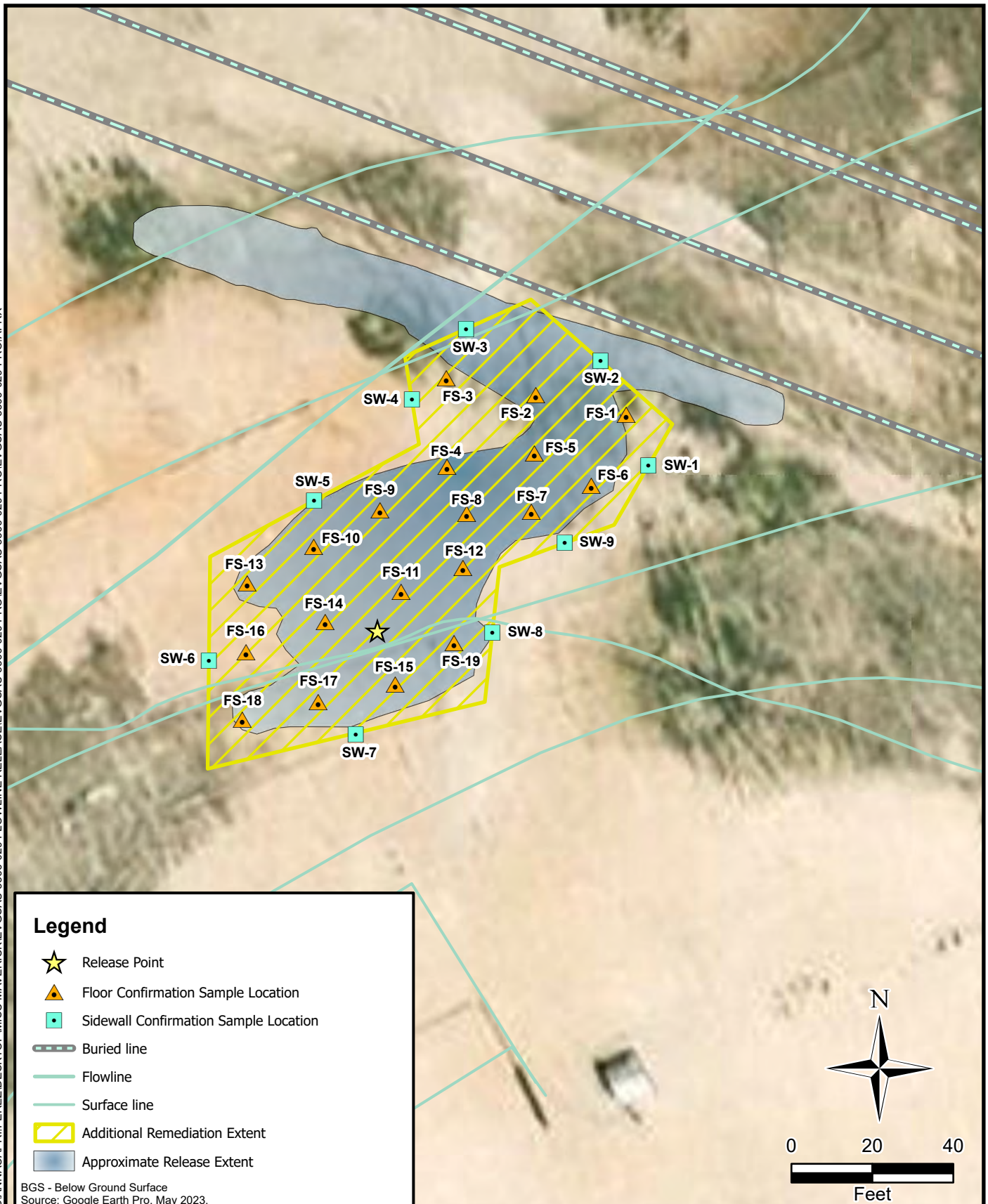
DATE: MARCH 25, 2024

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Figure No.

6

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MAVERICK PERMIAN, LLC

nJXK1609752883 & nJXK1609752883
(32.792953°, -103.470277°)
LEA COUNTY, NEW MEXICO

**EVGSAU 3366-029 FLOWLINE RELEASE
ADDITIONAL REMEDIATION EXTENT**

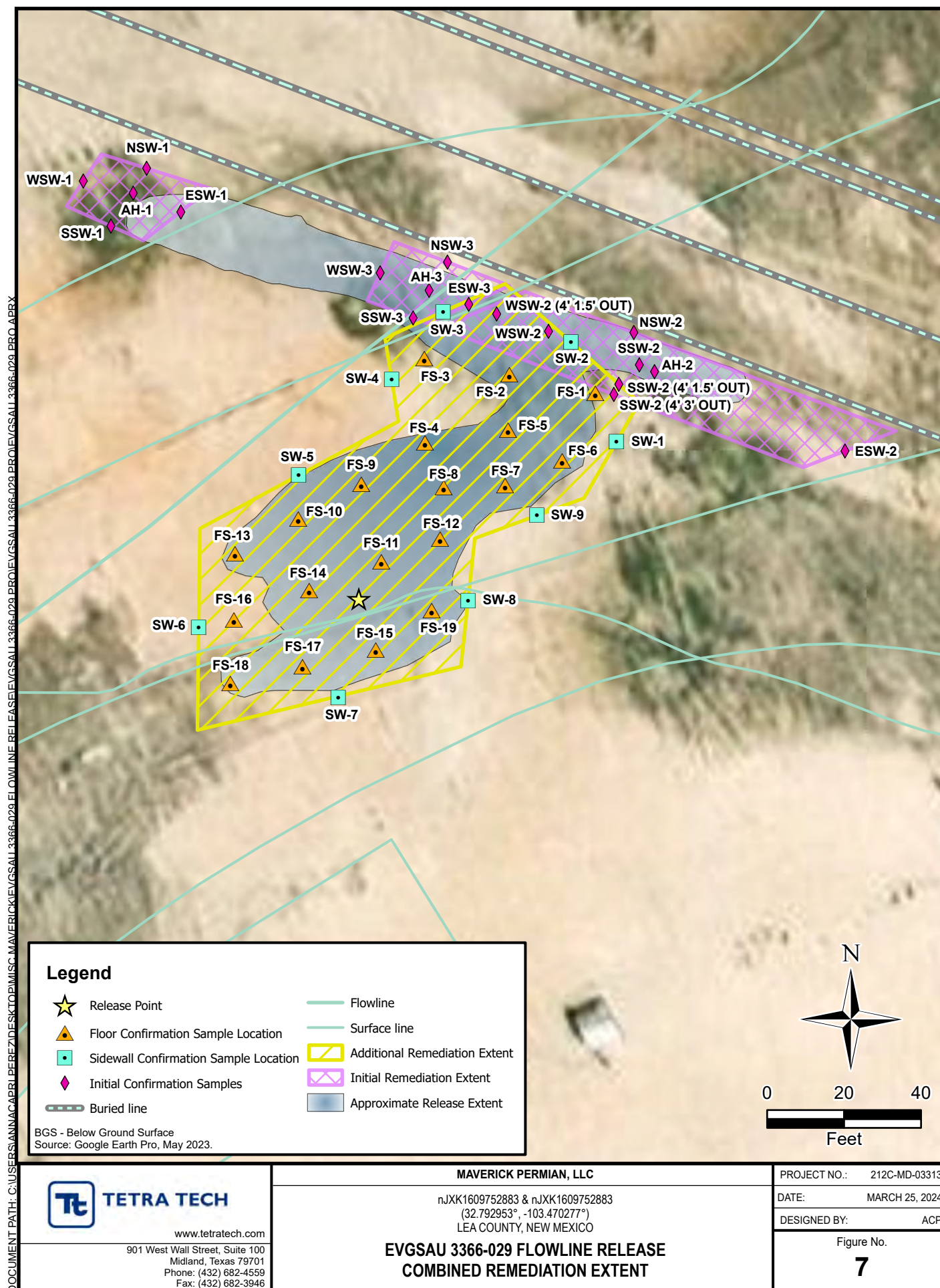
PROJECT NO.: 212C-MD-03313

DATE: MARCH 25, 2024

DESIGNED BY: ACP

Figure No.

6



Remediation Report and Closure Report
Maverick Permian, LLC
EVGSAU 3366-029 Flowline Release
Incident IDs: nJXK1609752883 and nPRS0420835421

March 25, 2024

TABLES



TABLE 1
SOIL ASSESSMENT LOCATIONS
INCIDENT NJXK1609752883 & nJXK1609752883
MAVERICK PERMIAN, LLC
EVGSAU 3366-029 FLOWLINE RELEASE
LEA COUNTY, NEW MEXICO

Boring ID	Date	Latitude	Longitude
SB-1	8/9/2017	32.793201	-103.470447
SB-2	8/9/2017	32.793143	-103.470236
SB-3	8/9/2017	32.793094	-103.470076
BH-20-1S	5/21/2020	32.793209	-103.470508
BH-20-2S	5/21/2020	32.793032	-103.470253
BH-20-3	5/21/2020	32.793292	-103.470019
BH-20-3S	5/21/2020	32.793015	-103.469869



TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENT IDS NJXK1609752883 & NJXK1609752883
MAVERICK PERMIAN, LLC
EVGSAU 3366-029 FLOWLINE RELEASE
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		ORO		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)			600		10								50								100	
SB-1	8/9/2017	0-1	780		-		-		-		-		-		-		-		-		-	
		2-3	470		< 0.0053		< 0.0053		< 0.0053		< 0.0053		-		< 10.6		432		99.2		531.2	
		4-5	569		-		-		-		-		-		-		-		-		-	
		6-7	723		-		-		-		-		-		-		-		-		-	
		9-10	545		< 0.0055		< 0.0055		< 0.0055		< 0.0055		-		< 11.0		< 10.8		< 10.8		-	
		14-15	1,510		-		-		-		-		-		-		-		-		-	
		19-20	686		< 0.0053		< 0.0053		< 0.0053		< 0.0053		-		< 10.7		< 10.5		< 10.5		-	
		24-25	1,500		-		-		-		-		-		-		-		-		-	
		29-30	2,430		-		-		-		-		-		-		-		-		-	
		34-35	2,640		-		-		-		-		-		-		-		-		-	
		39-40	567		-		-		-		-		-		-		-		-		-	
		44-45	114		-		-		-		-		-		-		-		-		-	
		49-50	105		-		-		-		-		-		-		-		-		-	
		54-55	112		-		-		-		-		-		-		-		-		-	
SB-2	8/9/2017	0-1	129		< 0.0057		< 0.0057		< 0.0057		< 0.0057		-		< 11.5		< 33.1		< 33.1		-	
		2-3	291		-		-		-		-		-		-		-		-		-	
		4-5	208		< 0.0053		< 0.0053		< 0.0053		< 0.0053		-		< 10.6		25.4		33.1		58.5	
		6-7	245		-		-		-		-		-		-		-		-		-	
		9-10	160		-		-		-		-		-		-		-		-		-	
		14-15	107		< 0.0052		< 0.0052		< 0.0052		< 0.0052		-		< 10.3		< 9.8		< 9.8		-	
19-20	111		-		-		-		-		-		-		-		-		-			
SB-3	8/9/2017	0-1	2,080		< 0.0062		< 0.0062		< 0.0062		< 0.0062		-		< 12.7		< 12.3		< 12.3		-	
		2-3	487		-		-		-		-		-		-		-		-		-	
		4-5	2,180		< 0.0054		< 0.0054		< 0.0054		< 0.0054		-		< 11.0		< 10.8		< 10.8		-	
		6-7	1,350		-		-		-		-		-		-		-		-		-	
		9-10	672		-		-		-		-		-		-		-		-		-	
		14-15	425		< 0.0054		< 0.0054		< 0.0054		< 0.0054		-		< 10.7		< 10.5		< 10.5		-	
		19-20	131		-		-		-		-		-		-		-		-		-	
24-25	108		-		-		-		-		-		-		-		-		-			
BH-20-1S	5/21/2020	0-1	103		< 0.00103		< 0.00517		< 0.00258		< 0.00671		-		< 0.103		7.71		18.8	B	26.51	
		2-3	306		< 0.00106		< 0.00529		< 0.00265		< 0.00688		-		< 0.106		23.1		41.5		64.6	
		4-5	3,720		< 0.00108		< 0.00539		< 0.0027		< 0.00701		-		< 0.108		< 4.32		0.782	B J	0.782	
BH-20-2S	5/21/2020	0-1	8,480		< 0.00109		0.0018	J	< 0.00273		< 0.00709		0.0018		< 0.109		323		422		745	
		2-3	2,510		< 0.00104		< 0.00522		< 0.00261		< 0.00678		-		< 0.104		< 4.17		1.93	B J	1.93	
		4-5	227		< 0.00103		< 0.00516		< 0.00258		< 0.0067		-		< 0.103		< 4.12		1.55	B J	1.55	
		6-7	3,240		< 0.00108		< 0.00538		< 0.00269		< 0.00699		-		< 0.108		< 4.30		< 4.30		-	
		9-10	327		< 0.001		< 0.00502		< 0.00251		< 0.00653		-		< 0.1		2.19	J	1.26	J	3.45	
BH-20-3	5/21/2020	0-1	93		< 0.00106		< 0.0053		< 0.00265		< 0.00689		-		< 0.106		9.77		19.3		29.1	
		2-3	20.7		< 0.00103		< 0.00516		< 0.00258		< 0.00671		-		< 0.103		4.86		10.4		15.3	
		4-5	65.5		< 0.00104		< 0.0052		< 0.0026		< 0.00676		-		< 0.104		2.47	J	2.47	J	4.94	
BH-20-3S	5/21/2020	0-1	114		< 0.00102		< 0.00508		< 0.00254		< 0.0066		-		< 0.102		9.25		25.7		35	
		2-3	66.5		< 0.00102		< 0.00509		< 0.00255		< 0.00662		-		< 0.102		5.19		8.32		13.5	
		4-5	24		< 0.00102		< 0.00512		< 0.00256		< 0.00666		-		< 0.102		< 4.10		< 4.10		-	



TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT SAMPLING - INCIDENT IDS NJXK1609752883 & NJXK1609752883
MAVERICK PERMIAN, LLC
EVGSAU 3366-029 FLOWLINE RELEASE
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		ORO		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	Q	mg/kg	
Reclamation Requirements (19.15.29 NMAC)			600		10								50							100		

NOTES:

bgs: Below ground surface	(-): Non-detect	1: Method SM4500Cl-B	Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).
mg/kg: Milligrams per kilogram	GRO: Gasoline Range Organics	2: Method 8021B	
TPH: Total Petroleum Hydrocarbons	DRO: Diesel Range Organics	3: Method 8015M	
NS: Not Sampled	ORO: Oil Range Organics		

B: The same analyte is found in the associated blank
J: The reported value is an estimate
J3: The associated batch QC was outside the established QC range for precision



TABLE 3
SUMMARY OF ANALYTICAL RESULTS
SHALLOW SOIL CONFIRMATION SAMPLING - INCIDENT IDS nJXK1609752883 & nJXK1609752883
MAVERICK PERMIAN, LLC
EVGSAU 3366-029 FLOWLINE RELEASE
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)			600		10							50						100				
Interim Remediation Sampling																						
NSW-1 (4')	1/28/2019	0.0 - 4.0	567		< 0.000420		< 0.00131		< 0.000556		< 0.00501		-		< 0.0228		7.3		6.65		13.95	
NSW-2 (4')	1/24/2019	0.0 - 4.0	337		< 0.000429		< 0.00134		< 0.000568		< 0.00513		-		< 0.0233		4.54		3.32	J	7.86	
NSW-3 (4')	1/29/2019	0.0 - 4.0	NS		NS		NS		NS		NS		-		NS		NS		NS		-	
ESW-1 (4')	1/31/2019	0.0 - 4.0	133		< 0.000443		< 0.00138		< 0.000586		< 0.00529		-		< 0.0240		1.96	J	< 0.303		1.96	
ESW-2 (4')	1/24/2019	0.0 - 4.0	103		< 0.000448	J3	< 0.00140		< 0.000593		< 0.00535		-		< 0.0243		97.6		99.7		197.3	
ESW-3 (4')	1/29/2019	0.0 - 4.0	235		< 0.000431		< 0.00135		< 0.000572		< 0.00515		-		< 0.0234		3.58	J	1.55	J	5.13	
WSW-1 (4')	1/28/2019	0.0 - 4.0	466		< 0.000430		< 0.00134		< 0.000569		< 0.00513		-		< 0.0233		22.7		20.9		43.6	
WSW-2 (4')	1/24/2019	0.0 - 4.0	690		< 0.000421		< 0.00132		< 0.000558		< 0.00504		-		< 0.0229		51.1		32.8		83.9	
WSW-2 (4' 1.5' OUT)	1/24/2019	0.0 - 4.0	1070		< 0.000431		< 0.00135		< 0.000570		< 0.00514		-		< 0.0234		3.38	J	1.06	J	4.44	
WSW-3 (4')	1/29/2019	0.0 - 4.0	122		< 0.000436		< 0.00136		< 0.000577		< 0.00521		-		< 0.0236		2.04	J	< 0.299		2.04	
SSW-1 (4')	1/28/2019	0.0 - 4.0	173		< 0.000433		< 0.00135		< 0.000573		< 0.00517		-		< 0.0235		3.17	J	2.52	J	5.69	
SSW-2 (4')	1/24/2019	0.0 - 4.0	1150		< 0.000422		< 0.00132		< 0.000559		< 0.00504		-		< 0.0229		2.45	J	0.678	J	3.128	
SSW-2 (4' 1.5' OUT)	1/24/2019	0.0 - 4.0	2200		< 0.000432		< 0.00135		< 0.000572		< 0.00516		-		< 0.0234		3.12	J	1.21	J	4.33	
SSW-2 (4' 3' OUT)	1/29/2019	0.0 - 4.0	1430		< 0.000424	J3	< 0.00133	J3	< 0.000562	J3	< 0.00507	J3	-		< 0.0230		< 1.71		< 0.290		-	
SSW-3 (4')	1/29/2019	0.0 - 4.0	NS		NS		NS		NS		NS		-		NS		NS		NS		-	
Additional Remediation Sampling																						
SW - 1	1/4/2024	0.0 - 4.0	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 2	1/4/2024	0.0 - 4.0	320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 3	1/12/2024	0.0 - 4.0	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 4	1/12/2024	0.0 - 4.0	688		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 4	1/18/2024	0.0 - 4.0	144		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 5	1/12/2024	0.0 - 4.0	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 6	1/12/2024	0.0 - 4.0	1,250		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		14		<10.0		14	
SW - 6	1/18/2024	0.0 - 4.0	128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 7	1/10/2024	0.0 - 4.0	272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 8	1/10/2024	0.0 - 4.0	448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
SW - 9	1/12/2024	0.0 - 4.0	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

bgs: Below ground surface

GRO: Gasoline Range Organics

1: Method 300.0 or SM4500Cl-B

mg/kg: Milligrams per kilogram

DRO: Diesel Range Organics

2: Method 8021B

TPH: Total Petroleum Hydrocarbons

ORO: Oil Range Organics

3: Method 8015M

J: The identification of the analyte is acceptable; the reported value is an estimate.

J3: The associated batch QC was outside the established quality control range for precision.

Bold and highlighted values indicate exceedance of Reclamation Requirements (19.15.29 NMAC).**Highlighted Rows indicate additional lateral excavation and resampling during Interim Remediation Sampling****Highlighted Rows indicate excavation and sampling inclusive of this sample area during Additional Remediation**



TABLE 4
SUMMARY OF ANALYTICAL RESULTS
DEEP CONFIRMATION SAMPLING - INCIDENT IDS nJXK1609752883 & nJXK1609752883
MAVERICK PERMIAN, LLC
EVGSAU 3366-029 FLOWLINE RELEASE
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		ORO		TPH GRO+DRO	Total TPH (GRO+DRO+ORO)
		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	mg/kg				
RRALs (Table I 19.15.29.12 NMAC)			10,000		10							50							1,000	2,500		
Interim Remediation Sampling																						
AH-1 (4')	1/28/2019	4.0 - 4.5	80.5		< 0.000428		< 0.00134		< 0.000567		< 0.00511		-		< 0.0232		2.51	J	< 0.293		2.51	2.51
AH-2 (4')	1/24/2019	4.0 - 4.5	926		< 0.000435		< 0.00136		< 0.000576		< 0.00520		-		< 0.0236		2.22	J	0.503	J	2.22	2.723
AH-3 (4')	1/29/2019	4.0 - 4.5	147		< 0.000424		< 0.00132		< 0.000561		< 0.00506		-		< 0.0230		< 1.70		< 0.290		-	-
Additional Remediation Sampling																						
FS - 1 (4.0')	1/4/2024	4.0 - 4.5	1,020		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.7		<10.0		16.7	16.7
FS - 2 (4.0')	1/4/2024	4.0 - 4.5	352		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		11.8		<10.0		11.8	11.8
FS - 3 (4.0')	1/4/2024	4.0 - 4.5	256		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
FS - 4 (4.0')	1/4/2024	4.0 - 4.5	736		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
FS - 5 (4.0')	1/4/2024	4.0 - 4.5	2,320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
FS - 6 (4.0')	1/4/2024	4.0 - 4.5	1,790		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		15.3		<10.0		15.3	15.3
FS - 7 (4.0')	1/4/2024	4.0 - 4.5	3,480		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
FS - 8 (4.0')	1/4/2024	4.0 - 4.5	1,940		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
FS - 9 (4.0')	1/4/2024	4.0 - 4.5	4,520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
FS - 10 (4.0')	1/4/2024	4.0 - 4.5	3,520		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
FS - 11 (4.0')	1/4/2024	4.0 - 4.5	2,560		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
FS - 12 (4.0')	1/4/2024	4.0 - 4.5	2,400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
FS - 13 (4.0')	1/4/2024	4.0 - 4.5	2,280		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
FS - 14 (4.0')	1/4/2024	4.0 - 4.5	2,360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	-
FS - 19 (4.0')	1/10/2024	4.0 - 4.5	3,920		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		20		<10.0		20	20

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

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

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

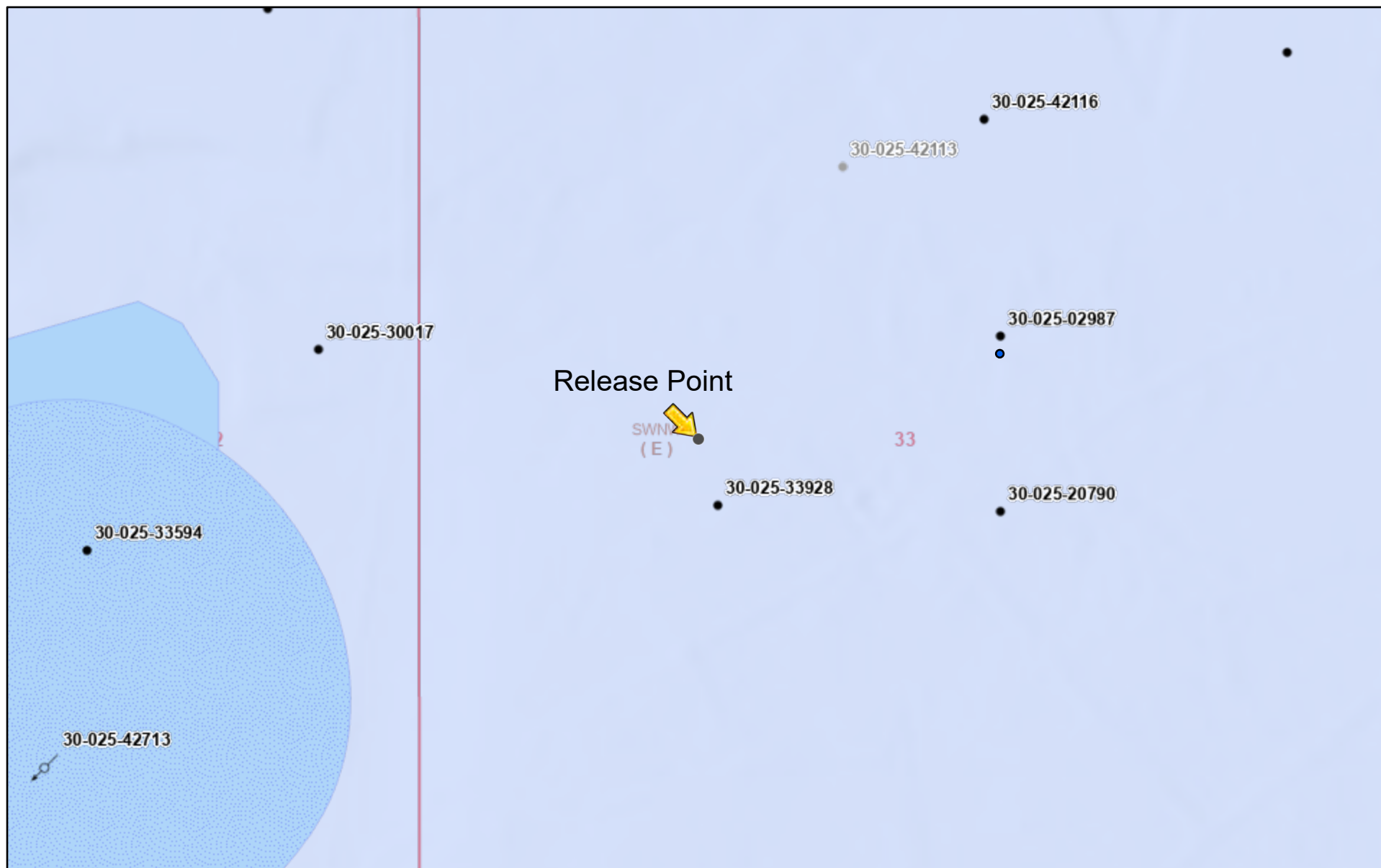
Bold and highlighted values indicate exceedance of Table I 19.15.29.12 NMAC.
Areas where samples were collected were then over excavated to achieve clean margins.
J: The identification of the analyte is acceptable; the reported value is an estimate.

Remediation Report and Closure Report
Maverick Permian, LLC
EVGSAU 3366-029 Flowline Release
Incident IDs: nJXK1609752883 and nPRS0420835421

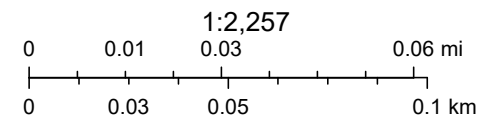
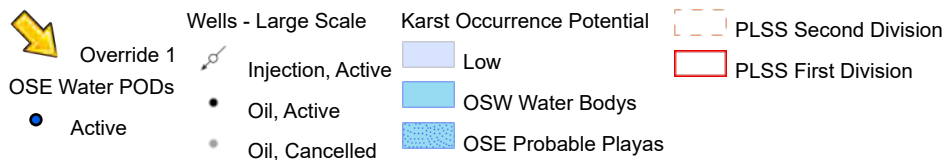
March 25, 2024

ATTACHMENT 1 – SITE CHARACTERIZATION DATA

EVGSAU 3366-029



3/26/2024, 12:34:16 PM




BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, Airbus


New Mexico Oil Conservation Division


EVGSAU 3366-029 Remediation

300-foot buffer demonstration

Legend

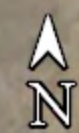
 300-foot buffer

 4' excavation

 4'Additional Excavation



NWI Mapped PUBF Wetland





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
L 04829 S5	L	LE		3	1	33	17S	35E		643347	3629400*	120	220	90	130
L 04880	L	LE		2	3	33	17S	35E		643757	3629002*	673	145	90	55
L 04578	L	LE				33	17S	35E		643962	3629198*	766	126	60	66

Average Depth to Water: **80 feet**

Minimum Depth: **60 feet**

Maximum Depth: **90 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 643227.957

Northing (Y): 3629419

Radius: 800

*UTM location was derived from PLSS - see Help

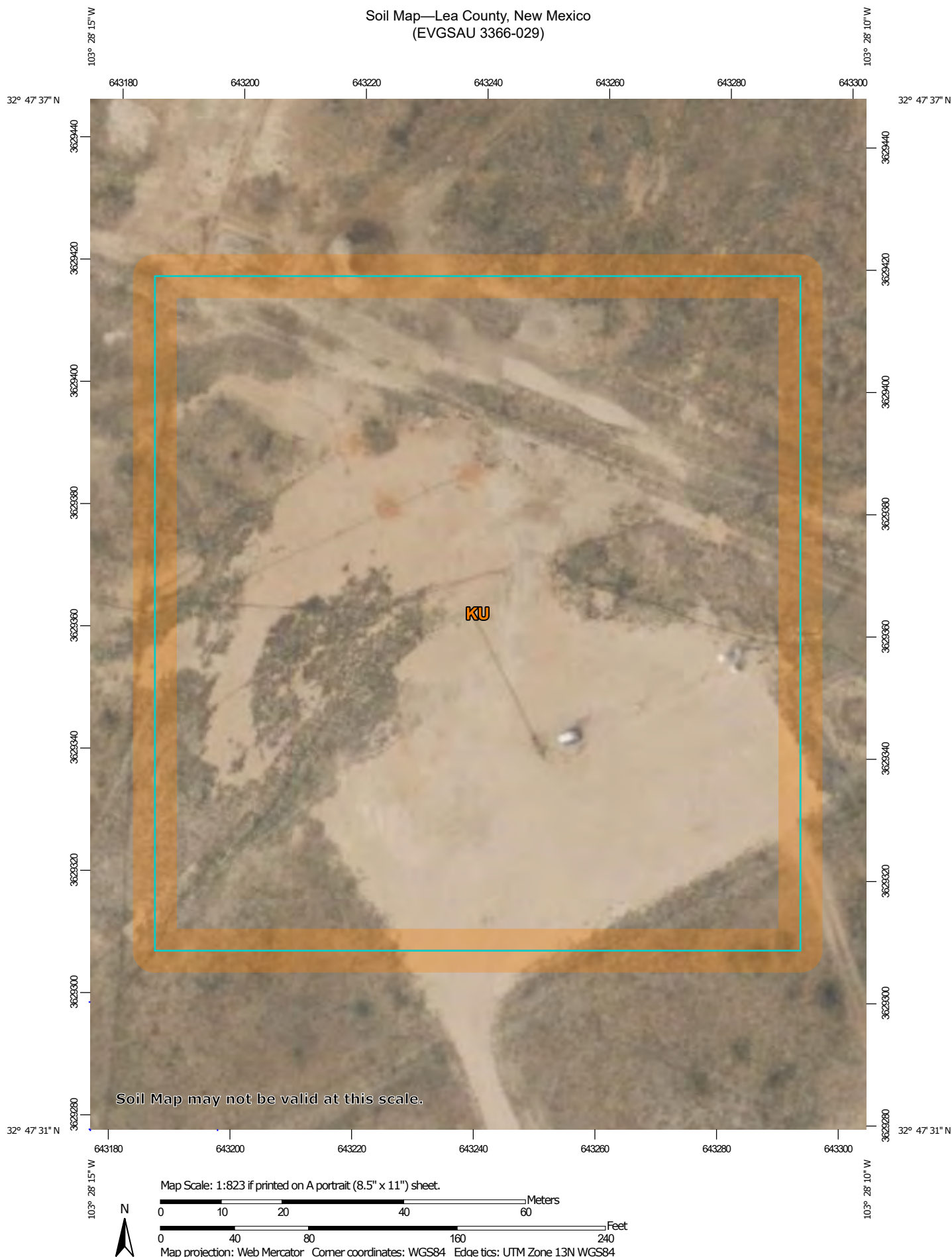
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/15/20 7:59 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Soil Map—Lea County, New Mexico
(EVGSAU 3366-029)



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

3/23/2024
Page 1 of 3

Soil Map—Lea County, New Mexico
(EVGSAU 3366-029)

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: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

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

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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
KU	Kimbrough-Lea complex, dry, 0 to 3 percent slopes	2.9	100.0%
Totals for Area of Interest		2.9	100.0%

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

EVGSAU 3366-029

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46

Elevation: 2,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches

Mean annual air temperature: 57 to 63 degrees F

Frost-free period: 180 to 220 days

Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent

Lea and similar soils: 25 percent

Minor components: 30 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Concave, linear

Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam

Bw - 3 to 10 inches: loam

Bkkm1 - 10 to 16 inches: cemented material

Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 4 to 18 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 95 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 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

EVGSAU 3366-029

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY049TX - Very Shallow 12-17" PZ
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 90 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 3.0
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R077DY047TX - Sandy Loam 12-17" PZ
Hydric soil rating: No

Minor Components

Kenhill

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R077DY038TX - Clay Loam 12-17" PZ
Hydric soil rating: No

Map Unit Description: Kimbrough-Lea complex, dry, 0 to 3 percent slopes---Lea County, New Mexico

EVGSAU 3366-029

Douro

Percent of map unit: 12 percent

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R077DY047TX - Sandy Loam 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent

Landform: Playa rims, plains

Down-slope shape: Convex, linear

Across-slope shape: Linear

Ecological site: R077DY049TX - Very Shallow 12-17" PZ

Other vegetative classification: Unnamed (G077DH000TX)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023



Remediation Report and Closure Report
Maverick Permian, LLC
EVGSAU 3366-029 Flowline Release
Incident IDs: nJXK1609752883 and nPRS0420835421

March 25, 2024

ATTACHMENT 2 – INITIAL ASSESSMENT LABORATORY DATA



August 25, 2017

Greg Pope
TetraTech
4000 N. Big Spring St.
Ste 401
Midland, TX 79705

RE: Project: 212C-MD-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Dear Greg Pope:

Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Melissa McCullough
melissa.mccullough@pacelabs.com
(972)727-1123
Project Manager

Enclosures

cc: Jeanne Fitch, Tetra Tech
Todd Wells, TetraTech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 15-016-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407

Utah Certification #: KS00021

Kansas Field Laboratory Accreditation: # E-92587

Missouri Certification: 10070

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7572014001	EVGSAU 3366-029 SB-01(0-1')	Solid	08/09/17 14:00	08/15/17 08:50
7572014002	EVGSAU 3366-029 SB-01(2-3')	Solid	08/09/17 14:00	08/15/17 08:50
7572014003	EVGSAU 3366-029 SB-01(4-5')	Solid	08/09/17 14:00	08/15/17 08:50
7572014004	EVGSAU 3366-029 SB-01(6-7')	Solid	08/09/17 14:00	08/15/17 08:50
7572014005	EVGSAU 3366-029 SB-01(9-10')	Solid	08/09/17 14:00	08/15/17 08:50
7572014006	EVGSAU 3366-029 SB-01(14-15')	Solid	08/09/17 14:00	08/15/17 08:50
7572014007	EVGSAU 3366-029 SB-01(19-20')	Solid	08/09/17 14:00	08/15/17 08:50
7572014008	EVGSAU 3366-029 SB-01(24-25')	Solid	08/09/17 14:00	08/15/17 08:50
7572014009	EVGSAU 3366-029 SB-01(29-30')	Solid	08/09/17 14:00	08/15/17 08:50
7572014010	EVGSAU 3366-029 SB-01(34-35')	Solid	08/09/17 14:00	08/15/17 08:50
7572014011	EVGSAU 3366-029 SB-01(39-40')	Solid	08/09/17 14:00	08/15/17 08:50
7572014012	EVGSAU 3366-029 SB-01(44-45')	Solid	08/09/17 14:00	08/15/17 08:50
7572014013	EVGSAU 3366-029 SB-01(49-50')	Solid	08/09/17 14:00	08/15/17 08:50
7572014014	EVGSAU 3366-029 SB-01(54-55')	Solid	08/09/17 14:00	08/15/17 08:50
7572014015	EVGSAU 3366-029 SB-2 (0-1')	Solid	08/09/17 15:00	08/15/17 08:50
7572014016	EVGSAU 3366-029 SB-2(2-3')	Solid	08/09/17 15:00	08/15/17 08:50
7572014017	EVGSAU 3366-029 SB-2 (4-5')	Solid	08/09/17 15:00	08/15/17 08:50
7572014018	EVGSAU 3366-029 SB-2(6-7')	Solid	08/09/17 15:00	08/15/17 08:50
7572014019	EVGSAU 3366-029 SB-2(9-10')	Solid	08/09/17 15:00	08/15/17 08:50
7572014020	EVGSAU 3366-029 SB-2 (14-15')	Solid	08/09/17 15:00	08/15/17 08:50
7572014021	EVGSAU 3366-029 SB-2(19-20')	Solid	08/08/17 15:00	08/15/17 08:50
7572014022	EVGSAU 3366-029 SB-3 (0-1')	Solid	08/09/17 17:00	08/15/17 08:50
7572014023	EVGSAU 3366-029 SB-3(2-3')	Solid	08/09/17 17:00	08/15/17 08:50
7572014024	EVGSAU 3366-029 SB-3 (4-5')	Solid	08/09/17 17:00	08/15/17 08:50
7572014025	EVGSAU 3366-029 SB-3(6-7')	Solid	08/09/17 17:00	08/15/17 08:50
7572014026	EVGSAU 3366-029 SB-3(9-10')	Solid	08/09/17 17:00	08/15/17 08:50
7572014027	EVGSAU 3366-029 SB-3 (14-15')	Solid	08/09/17 17:00	08/15/17 08:50
7572014028	EVGSAU 3366-029 SB-3(19-20')	Solid	08/09/17 17:00	08/15/17 08:50
7572014029	EVGSAU 3366-029 SB-3(24-25')	Solid	08/09/17 17:00	08/15/17 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7572014001	EVGSAU 3366-029 SB-01(0-1')	EPA 300.0	OL	1	PASI-K
7572014002	EVGSAU 3366-029 SB-01(2-3')	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014003	EVGSAU 3366-029 SB-01(4-5')	EPA 300.0	OL	1	PASI-K
7572014004	EVGSAU 3366-029 SB-01(6-7')	EPA 300.0	OL	1	PASI-K
7572014005	EVGSAU 3366-029 SB-01(9-10')	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014006	EVGSAU 3366-029 SB-01(14-15')	EPA 300.0	OL	1	PASI-K
7572014007	EVGSAU 3366-029 SB-01(19-20')	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014008	EVGSAU 3366-029 SB-01(24-25')	EPA 300.0	OL	1	PASI-K
7572014009	EVGSAU 3366-029 SB-01(29-30')	EPA 300.0	OL	1	PASI-K
7572014010	EVGSAU 3366-029 SB-01(34-35')	EPA 300.0	OL	1	PASI-K
7572014011	EVGSAU 3366-029 SB-01(39-40')	EPA 300.0	OL	1	PASI-K
7572014012	EVGSAU 3366-029 SB-01(44-45')	EPA 300.0	OL	1	PASI-K
7572014013	EVGSAU 3366-029 SB-01(49-50')	EPA 300.0	OL	1	PASI-K
7572014014	EVGSAU 3366-029 SB-01(54-55')	EPA 300.0	OL	1	PASI-K
7572014015	EVGSAU 3366-029 SB-2 (0-1')	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014016	EVGSAU 3366-029 SB-2(2-3')	EPA 300.0	OL	1	PASI-K
7572014017	EVGSAU 3366-029 SB-2 (4-5')	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014018	EVGSAU 3366-029 SB-2(6-7')	EPA 300.0	OL	1	PASI-K
7572014019	EVGSAU 3366-029 SB-2(9-10')	EPA 300.0	OL	1	PASI-K
7572014020	EVGSAU 3366-029 SB-2 (14-15')	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	OL	1	PASI-K
7572014021	EVGSAU 3366-029 SB-2(19-20')	EPA 300.0	OL	1	PASI-K
7572014022	EVGSAU 3366-029 SB-3 (0-1')	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014023	EVGSAU 3366-029 SB-3(2-3')	EPA 300.0	OL	1	PASI-K
7572014024	EVGSAU 3366-029 SB-3 (4-5')	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014025	EVGSAU 3366-029 SB-3(6-7')	EPA 300.0	OL	1	PASI-K
7572014026	EVGSAU 3366-029 SB-3(9-10')	EPA 300.0	OL	1	PASI-K
7572014027	EVGSAU 3366-029 SB-3 (14-15')	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014028	EVGSAU 3366-029 SB-3(19-20')	EPA 300.0	OL	1	PASI-K
7572014029	EVGSAU 3366-029 SB-3(24-25')	EPA 300.0	OL	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(0-1') Lab ID: 7572014001 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	780	mg/kg	101	10	08/18/17 11:24	08/18/17 17:18	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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Date: 08/25/2017 11:00 AM

Page 6 of 47

ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(2-3') Lab ID: 7572014002 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO (C10-C28)	432	mg/kg	10	1	08/23/17 08:36	08/24/17 12:44		
TPH-ORO (C28-C35)	99.2	mg/kg	10	1	08/23/17 08:36	08/24/17 12:44		
Surrogates								
n-Tetracosane (S)	172	%	65-119	1	08/23/17 08:36	08/24/17 12:44	646-31-1	S5
p-Terphenyl (S)	74	%	41-131	1	08/23/17 08:36	08/24/17 12:44	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.6	1	08/20/17 00:00	08/21/17 20:13		
Surrogates								
4-Bromofluorobenzene (S)	95	%	64-122	1	08/20/17 00:00	08/21/17 20:13	460-00-4	
8260/5035A Volatile Organics Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.3	1		08/22/17 20:29	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1		08/22/17 20:29	100-41-4	
Toluene	ND	ug/kg	5.3	1		08/22/17 20:29	108-88-3	
Xylene (Total)	ND	ug/kg	5.3	1		08/22/17 20:29	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 20:29	2037-26-5	
4-Bromofluorobenzene (S)	106	%	87-115	1		08/22/17 20:29	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	85-115	1		08/22/17 20:29	17060-07-0	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	470	mg/kg	103	10	08/18/17 11:24	08/18/17 17:31	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(4-5') Lab ID: 7572014003 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	569	mg/kg	96.7	10	08/18/17 11:24	08/18/17 17:44	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(6-7') Lab ID: 7572014004 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	723	mg/kg	98.2	10	08/18/17 11:24	08/18/17 17:57	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(9-10') Lab ID: 7572014005 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO (C10-C28)	ND	mg/kg	10.8	1	08/23/17 08:36	08/24/17 12:53		
TPH-ORO (C28-C35)	ND	mg/kg	10.8	1	08/23/17 08:36	08/24/17 12:53		
Surrogates								
n-Tetracosane (S)	81	%	65-119	1	08/23/17 08:36	08/24/17 12:53	646-31-1	
p-Terphenyl (S)	80	%	41-131	1	08/23/17 08:36	08/24/17 12:53	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	11.0	1	08/20/17 00:00	08/21/17 20:29		
Surrogates								
4-Bromofluorobenzene (S)	96	%	64-122	1	08/20/17 00:00	08/21/17 20:29	460-00-4	
8260/5035A Volatile Organics Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.5	1		08/22/17 20:45	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1		08/22/17 20:45	100-41-4	
Toluene	ND	ug/kg	5.5	1		08/22/17 20:45	108-88-3	
Xylene (Total)	ND	ug/kg	5.5	1		08/22/17 20:45	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 20:45	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-115	1		08/22/17 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	85-115	1		08/22/17 20:45	17060-07-0	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	545	mg/kg	109	10	08/18/17 11:24	08/18/17 18:10	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(14-15') Lab ID: 7572014006 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	1510	mg/kg	96.2	10	08/18/17 11:24	08/18/17 18:23	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(19-20') Lab ID: 7572014007 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO (C10-C28)	ND	mg/kg	10.5	1	08/23/17 08:36	08/24/17 14:09		
TPH-ORO (C28-C35)	ND	mg/kg	10.5	1	08/23/17 08:36	08/24/17 14:09		
Surrogates								
n-Tetracosane (S)	80	%	65-119	1	08/23/17 08:36	08/24/17 14:09	646-31-1	
p-Terphenyl (S)	79	%	41-131	1	08/23/17 08:36	08/24/17 14:09	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.7	1	08/20/17 00:00	08/21/17 20:45		
Surrogates								
4-Bromofluorobenzene (S)	94	%	64-122	1	08/20/17 00:00	08/21/17 20:45	460-00-4	
8260/5035A Volatile Organics Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.3	1		08/22/17 21:01	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1		08/22/17 21:01	100-41-4	
Toluene	ND	ug/kg	5.3	1		08/22/17 21:01	108-88-3	
Xylene (Total)	ND	ug/kg	5.3	1		08/22/17 21:01	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 21:01	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-115	1		08/22/17 21:01	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	85-115	1		08/22/17 21:01	17060-07-0	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	686	mg/kg	103	10	08/18/17 11:24	08/18/17 18:36	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(24-25') Lab ID: 7572014008 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	1500	mg/kg	98.2	10	08/18/17 11:24	08/18/17 19:14	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(29-30') Lab ID: 7572014009 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	2430	mg/kg	195	20	08/18/17 11:24	08/19/17 09:15	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(34-35') Lab ID: 7572014010 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	2640	mg/kg	196	20	08/18/17 11:24	08/19/17 09:28	16887-00-6	

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Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(39-40') Lab ID: 7572014011 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	567	mg/kg	101	10	08/22/17 10:47	08/22/17 10:47	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(44-45') Lab ID: 7572014012 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	114	mg/kg	101	10	08/22/17 13:03	08/22/17 13:03	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(49-50') Lab ID: 7572014013 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	105	mg/kg	97.8	10	08/22/17 13:18	08/22/17 13:18	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(54-55') Lab ID: 7572014014 Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	112	mg/kg	101	10	08/22/17 13:33	08/22/17 13:33	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2 (0-1') **Lab ID:** 7572014015 **Collected:** 08/09/17 15:00 **Received:** 08/15/17 08:50 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO (C10-C28)	ND	mg/kg	33.1	1	08/23/17 08:36	08/24/17 13:12		
TPH-ORO (C28-C35)	ND	mg/kg	33.1	1	08/23/17 08:36	08/24/17 13:12		
Surrogates								
n-Tetracosane (S)	81	%	65-119	1	08/23/17 08:36	08/24/17 13:12	646-31-1	
p-Terphenyl (S)	81	%	41-131	1	08/23/17 08:36	08/24/17 13:12	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	11.5	1	08/20/17 00:00	08/21/17 21:01		
Surrogates								
4-Bromofluorobenzene (S)	87	%	64-122	1	08/20/17 00:00	08/21/17 21:01	460-00-4	
8260/5035A Volatile Organics Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.7	1		08/22/17 21:17	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1		08/22/17 21:17	100-41-4	
Toluene	ND	ug/kg	5.7	1		08/22/17 21:17	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1		08/22/17 21:17	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 21:17	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-115	1		08/22/17 21:17	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	85-115	1		08/22/17 21:17	17060-07-0	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	129	mg/kg	116	10	08/22/17 13:48	08/22/17 13:48	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2(2-3') Lab ID: 7572014016 Collected: 08/09/17 15:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	291	mg/kg	101	10	08/22/17 14:03	08/22/17 14:03	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2 (4-5') Lab ID: 7572014017 Collected: 08/09/17 15:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO (C10-C28)	25.4	mg/kg	10.2	1	08/23/17 08:36	08/24/17 13:21		
TPH-ORO (C28-C35)	33.1	mg/kg	10.2	1	08/23/17 08:36	08/24/17 13:21		
Surrogates								
n-Tetracosane (S)	89	%	65-119	1	08/23/17 08:36	08/24/17 13:21	646-31-1	
p-Terphenyl (S)	85	%	41-131	1	08/23/17 08:36	08/24/17 13:21	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.6	1	08/20/17 00:00	08/21/17 21:48		
Surrogates								
4-Bromofluorobenzene (S)	94	%	64-122	1	08/20/17 00:00	08/21/17 21:48	460-00-4	
8260/5035A Volatile Organics Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.3	1		08/22/17 21:33	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1		08/22/17 21:33	100-41-4	
Toluene	ND	ug/kg	5.3	1		08/22/17 21:33	108-88-3	
Xylene (Total)	ND	ug/kg	5.3	1		08/22/17 21:33	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	87-112	1		08/22/17 21:33	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-115	1		08/22/17 21:33	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	85-115	1		08/22/17 21:33	17060-07-0	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	208	mg/kg	103	10	08/22/17 15:31	08/22/17 15:31	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2(6-7') Lab ID: 7572014018 Collected: 08/09/17 15:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	245	mg/kg	96.5	10	08/22/17 15:46	08/22/17 15:46	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2(9-10') Lab ID: 7572014019 Collected: 08/09/17 15:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	160	mg/kg	98.8	10	08/22/17 16:02	08/22/17 16:02	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2 **Lab ID:** 7572014020 **Collected:** 08/09/17 15:00 **Received:** 08/15/17 08:50 **Matrix:** Solid
(14-15')

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO (C10-C28)	ND	mg/kg	9.8	1	08/23/17 08:36	08/24/17 13:31		
TPH-ORO (C28-C35)	ND	mg/kg	9.8	1	08/23/17 08:36	08/24/17 13:31		
Surrogates								
n-Tetracosane (S)	76	%	65-119	1	08/23/17 08:36	08/24/17 13:31	646-31-1	
p-Terphenyl (S)	79	%	41-131	1	08/23/17 08:36	08/24/17 13:31	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.3	1	08/20/17 00:00	08/21/17 22:04		
Surrogates								
4-Bromofluorobenzene (S)	97	%	64-122	1	08/20/17 00:00	08/21/17 22:04	460-00-4	
8260/5035A Volatile Organics Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.2	1		08/22/17 21:49	71-43-2	
Ethylbenzene	ND	ug/kg	5.2	1		08/22/17 21:49	100-41-4	
Toluene	ND	ug/kg	5.2	1		08/22/17 21:49	108-88-3	
Xylene (Total)	ND	ug/kg	5.2	1		08/22/17 21:49	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 21:49	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-115	1		08/22/17 21:49	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	85-115	1		08/22/17 21:49	17060-07-0	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	107	mg/kg	104	10	08/22/17 16:17	08/22/17 16:17	16887-00-6	M1

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2(19-20') Lab ID: 7572014021 Collected: 08/08/17 15:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	111	mg/kg	99.2	10	08/22/17 17:17	08/22/17 17:17	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3 (0-1') **Lab ID:** 7572014022 **Collected:** 08/09/17 17:00 **Received:** 08/15/17 08:50 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO (C10-C28)	ND	mg/kg	12.3	1	08/23/17 08:36	08/24/17 13:40		
TPH-ORO (C28-C35)	ND	mg/kg	12.3	1	08/23/17 08:36	08/24/17 13:40		
Surrogates								
n-Tetracosane (S)	68	%	65-119	1	08/23/17 08:36	08/24/17 13:40	646-31-1	
p-Terphenyl (S)	70	%	41-131	1	08/23/17 08:36	08/24/17 13:40	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	12.7	1	08/20/17 00:00	08/21/17 22:20		
Surrogates								
4-Bromofluorobenzene (S)	95	%	64-122	1	08/20/17 00:00	08/21/17 22:20	460-00-4	
8260/5035A Volatile Organics Analytical Method: EPA 8260								
Benzene	ND	ug/kg	6.2	1		08/22/17 22:05	71-43-2	
Ethylbenzene	ND	ug/kg	6.2	1		08/22/17 22:05	100-41-4	
Toluene	ND	ug/kg	6.2	1		08/22/17 22:05	108-88-3	
Xylene (Total)	ND	ug/kg	6.2	1		08/22/17 22:05	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	87-112	1		08/22/17 22:05	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-115	1		08/22/17 22:05	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	85-115	1		08/22/17 22:05	17060-07-0	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	2080	mg/kg	122	10	08/22/17 17:32	08/22/17 17:32	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3(2-3') Lab ID: 7572014023 Collected: 08/09/17 17:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	487	mg/kg	97.3	10	08/22/17 17:47	08/22/17 17:47	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3 (4-5') Lab ID: 7572014024 Collected: 08/09/17 17:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO (C10-C28)	ND	mg/kg	10.8	1	08/23/17 08:36	08/24/17 13:50		
TPH-ORO (C28-C35)	ND	mg/kg	10.8	1	08/23/17 08:36	08/24/17 13:50		
Surrogates								
n-Tetracosane (S)	74	%	65-119	1	08/23/17 08:36	08/24/17 13:50	646-31-1	
p-Terphenyl (S)	74	%	41-131	1	08/23/17 08:36	08/24/17 13:50	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	11.0	1	08/20/17 00:00	08/21/17 22:36		
Surrogates								
4-Bromofluorobenzene (S)	96	%	64-122	1	08/20/17 00:00	08/21/17 22:36	460-00-4	
8260/5035A Volatile Organics Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.4	1		08/22/17 22:21	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1		08/22/17 22:21	100-41-4	
Toluene	ND	ug/kg	5.4	1		08/22/17 22:21	108-88-3	
Xylene (Total)	ND	ug/kg	5.4	1		08/22/17 22:21	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	87-112	1		08/22/17 22:21	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-115	1		08/22/17 22:21	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	85-115	1		08/22/17 22:21	17060-07-0	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	2180	mg/kg	216	20	08/22/17 08:00	08/23/17 16:36	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3(6-7') Lab ID: 7572014025 Collected: 08/09/17 17:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	1350	mg/kg	101	10	08/22/17 18:18	08/22/17 18:18	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3(9-10') Lab ID: 7572014026 Collected: 08/09/17 17:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	672	mg/kg	96.9	10	08/22/17 18:33	08/22/17 18:33	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3 **Lab ID:** 7572014027 **Collected:** 08/09/17 17:00 **Received:** 08/15/17 08:50 **Matrix:** Solid
 (14-15')

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO (C10-C28)	ND	mg/kg	10.5	1	08/23/17 08:36	08/24/17 13:59		
TPH-ORO (C28-C35)	ND	mg/kg	10.5	1	08/23/17 08:36	08/24/17 13:59		
Surrogates								
n-Tetracosane (S)	84	%	65-119	1	08/23/17 08:36	08/24/17 13:59	646-31-1	
p-Terphenyl (S)	85	%	41-131	1	08/23/17 08:36	08/24/17 13:59	92-94-4	
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.7	1	08/23/17 00:00	08/23/17 14:32		
Surrogates								
4-Bromofluorobenzene (S)	100	%	64-122	1	08/23/17 00:00	08/23/17 14:32	460-00-4	
8260/5035A Volatile Organics Analytical Method: EPA 8260								
Benzene	ND	ug/kg	5.4	1		08/22/17 22:37	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1		08/22/17 22:37	100-41-4	
Toluene	ND	ug/kg	5.4	1		08/22/17 22:37	108-88-3	
Xylene (Total)	ND	ug/kg	5.4	1		08/22/17 22:37	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 22:37	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-115	1		08/22/17 22:37	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	85-115	1		08/22/17 22:37	17060-07-0	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	425	mg/kg	103	10	08/22/17 18:48	08/22/17 18:48	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3(19-20') Lab ID: 7572014028 Collected: 08/09/17 17:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	131	mg/kg	98.8	10	08/22/17 19:03	08/22/17 19:03	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3(24-25') Lab ID: 7572014029 Collected: 08/09/17 17:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	108	mg/kg	97.7	10	08/22/17 19:18	08/22/17 19:18	16887-00-6	

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QUALITY CONTROL DATA

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

QC Batch: 490632 Analysis Method: EPA 8015B
 QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
 Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024

METHOD BLANK: 2008512 Matrix: Solid
 Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	08/21/17 15:45	
4-Bromofluorobenzene (S)	%	112	64-122	08/21/17 15:45	

LABORATORY CONTROL SAMPLE: 2008513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	48.4	97	85-130	
4-Bromofluorobenzene (S)	%			109	64-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2008514 2008515

Parameter	Units	7572002014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	56	56	58.0	56.0	102	98	85-125	4	12	
4-Bromofluorobenzene (S)	%						101	87	64-122			

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QUALITY CONTROL DATA

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

QC Batch: 491143

Analysis Method: EPA 8015B

QC Batch Method: EPA 5035A/5030B

Analysis Description: Gasoline Range Organics

Associated Lab Samples: 7572014027

METHOD BLANK: 2010285

Matrix: Solid

Associated Lab Samples: 7572014027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	08/23/17 11:22	
4-Bromofluorobenzene (S)	%	110	64-122	08/23/17 11:22	

LABORATORY CONTROL SAMPLE: 2010286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	51.7	103	85-130	
4-Bromofluorobenzene (S)	%			105	64-122	

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QUALITY CONTROL DATA

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

QC Batch: 490867 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
 Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024, 7572014027

METHOD BLANK: 2009313 Matrix: Solid
 Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024, 7572014027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	08/22/17 18:03	
Ethylbenzene	ug/kg	ND	5.0	08/22/17 18:03	
Toluene	ug/kg	ND	5.0	08/22/17 18:03	
Xylene (Total)	ug/kg	ND	5.0	08/22/17 18:03	
1,2-Dichloroethane-d4 (S)	%	105	85-115	08/22/17 18:03	
4-Bromofluorobenzene (S)	%	104	87-115	08/22/17 18:03	
Toluene-d8 (S)	%	101	87-112	08/22/17 18:03	

LABORATORY CONTROL SAMPLE: 2009314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	87.6	88	81-115	
Ethylbenzene	ug/kg	100	82.4	82	76-119	
Toluene	ug/kg	100	84.1	84	77-116	
Xylene (Total)	ug/kg	300	247	82	76-121	
1,2-Dichloroethane-d4 (S)	%			109	85-115	
4-Bromofluorobenzene (S)	%			105	87-115	
Toluene-d8 (S)	%			101	87-112	

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QUALITY CONTROL DATA

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

QC Batch: 491042 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024, 7572014027

METHOD BLANK: 2009940 Matrix: Solid
Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024, 7572014027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.8	08/24/17 10:12	
TPH-ORO (C28-C35)	mg/kg	ND	9.8	08/24/17 10:12	
n-Tetracosane (S)	%	92	65-119	08/24/17 10:12	
p-Terphenyl (S)	%	92	41-131	08/24/17 10:12	

LABORATORY CONTROL SAMPLE: 2009941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	80.9	72.7	90	80-112	
n-Tetracosane (S)	%			86	65-119	
p-Terphenyl (S)	%			85	41-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2009942 2009943

Parameter	Units	7572007029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	212	92.9	95.5	361	208	161	-4	10-180	54	39	M1,R1
n-Tetracosane (S)	%						106	79	65-119		58	
p-Terphenyl (S)	%						97	77	41-131		56	

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QUALITY CONTROL DATA

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

QC Batch: 490442 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 7572014001, 7572014002, 7572014003, 7572014004, 7572014005, 7572014006, 7572014007, 7572014008, 7572014009, 7572014010

METHOD BLANK: 2007674 Matrix: Solid
 Associated Lab Samples: 7572014001, 7572014002, 7572014003, 7572014004, 7572014005, 7572014006, 7572014007, 7572014008, 7572014009, 7572014010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/19/17 08:23	

LABORATORY CONTROL SAMPLE: 2007675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	485	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2007676 2007677

Parameter	Units	7572004016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	ND	585	590	559	ND	89	3	80-120		15	M1

MATRIX SPIKE SAMPLE: 2007678

Parameter	Units	7572004025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg		ND	687	139	5	80-120 M1

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QUALITY CONTROL DATA

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

QC Batch:	490485	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	7572014011, 7572014012, 7572014013, 7572014014, 7572014015, 7572014016, 7572014017, 7572014018, 7572014019, 7572014020, 7572014021, 7572014022, 7572014023, 7572014024, 7572014025, 7572014026, 7572014027, 7572014028, 7572014029		

METHOD BLANK: 2007886

Matrix: Solid

Associated Lab Samples: 7572014011, 7572014012, 7572014013, 7572014014, 7572014015, 7572014016, 7572014017, 7572014018, 7572014019, 7572014020, 7572014021, 7572014022, 7572014023, 7572014024, 7572014025, 7572014026, 7572014027, 7572014028, 7572014029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/23/17 15:50	

LABORATORY CONTROL SAMPLE: 2007887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	476	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2007888 2007889

Parameter	Units	7572014011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	567	506	499	1040	1040	94	95	80-120	0	15	

MATRIX SPIKE SAMPLE: 2007890

Parameter	Units	7572014020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	107	504	139	6	80-120	M1

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QUALIFIERS

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: 490996

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 491374

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

REPORT OF LABORATORY ANALYSIS

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Date: 08/25/2017 11:00 AM

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7572014002	EVGSAU 3366-029 SB-01(2-3')	EPA 3546	491042	EPA 8015B	491258
7572014005	EVGSAU 3366-029 SB-01(9-10')	EPA 3546	491042	EPA 8015B	491258
7572014007	EVGSAU 3366-029 SB-01(19-20')	EPA 3546	491042	EPA 8015B	491258
7572014015	EVGSAU 3366-029 SB-2 (0-1')	EPA 3546	491042	EPA 8015B	491258
7572014017	EVGSAU 3366-029 SB-2 (4-5')	EPA 3546	491042	EPA 8015B	491258
7572014020	EVGSAU 3366-029 SB-2 (14-15')	EPA 3546	491042	EPA 8015B	491258
7572014022	EVGSAU 3366-029 SB-3 (0-1')	EPA 3546	491042	EPA 8015B	491258
7572014024	EVGSAU 3366-029 SB-3 (4-5')	EPA 3546	491042	EPA 8015B	491258
7572014027	EVGSAU 3366-029 SB-3 (14-15')	EPA 3546	491042	EPA 8015B	491258
7572014002	EVGSAU 3366-029 SB-01(2-3')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014005	EVGSAU 3366-029 SB-01(9-10')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014007	EVGSAU 3366-029 SB-01(19-20')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014015	EVGSAU 3366-029 SB-2 (0-1')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014017	EVGSAU 3366-029 SB-2 (4-5')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014020	EVGSAU 3366-029 SB-2 (14-15')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014022	EVGSAU 3366-029 SB-3 (0-1')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014024	EVGSAU 3366-029 SB-3 (4-5')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014027	EVGSAU 3366-029 SB-3 (14-15')	EPA 5035A/5030B	491143	EPA 8015B	491374
7572014002	EVGSAU 3366-029 SB-01(2-3')	EPA 8260	490867		
7572014005	EVGSAU 3366-029 SB-01(9-10')	EPA 8260	490867		
7572014007	EVGSAU 3366-029 SB-01(19-20')	EPA 8260	490867		
7572014015	EVGSAU 3366-029 SB-2 (0-1')	EPA 8260	490867		
7572014017	EVGSAU 3366-029 SB-2 (4-5')	EPA 8260	490867		
7572014020	EVGSAU 3366-029 SB-2 (14-15')	EPA 8260	490867		
7572014022	EVGSAU 3366-029 SB-3 (0-1')	EPA 8260	490867		
7572014024	EVGSAU 3366-029 SB-3 (4-5')	EPA 8260	490867		
7572014027	EVGSAU 3366-029 SB-3 (14-15')	EPA 8260	490867		
7572014001	EVGSAU 3366-029 SB-01(0-1')	EPA 300.0	490442	EPA 300.0	490562
7572014002	EVGSAU 3366-029 SB-01(2-3')	EPA 300.0	490442	EPA 300.0	490562
7572014003	EVGSAU 3366-029 SB-01(4-5')	EPA 300.0	490442	EPA 300.0	490562
7572014004	EVGSAU 3366-029 SB-01(6-7')	EPA 300.0	490442	EPA 300.0	490562
7572014005	EVGSAU 3366-029 SB-01(9-10')	EPA 300.0	490442	EPA 300.0	490562
7572014006	EVGSAU 3366-029 SB-01(14-15')	EPA 300.0	490442	EPA 300.0	490562
7572014007	EVGSAU 3366-029 SB-01(19-20')	EPA 300.0	490442	EPA 300.0	490562
7572014008	EVGSAU 3366-029 SB-01(24-25')	EPA 300.0	490442	EPA 300.0	490562
7572014009	EVGSAU 3366-029 SB-01(29-30')	EPA 300.0	490442	EPA 300.0	490573
7572014010	EVGSAU 3366-029 SB-01(34-35')	EPA 300.0	490442	EPA 300.0	490573
7572014011	EVGSAU 3366-029 SB-01(39-40')	EPA 300.0	490485	EPA 300.0	491036
7572014012	EVGSAU 3366-029 SB-01(44-45')	EPA 300.0	490485	EPA 300.0	491036
7572014013	EVGSAU 3366-029 SB-01(49-50')	EPA 300.0	490485	EPA 300.0	491036
7572014014	EVGSAU 3366-029 SB-01(54-55')	EPA 300.0	490485	EPA 300.0	491036
7572014015	EVGSAU 3366-029 SB-2 (0-1')	EPA 300.0	490485	EPA 300.0	491036
7572014016	EVGSAU 3366-029 SB-2(2-3')	EPA 300.0	490485	EPA 300.0	491036
7572014017	EVGSAU 3366-029 SB-2 (4-5')	EPA 300.0	490485	EPA 300.0	491036
7572014018	EVGSAU 3366-029 SB-2(6-7')	EPA 300.0	490485	EPA 300.0	491036
7572014019	EVGSAU 3366-029 SB-2(9-10')	EPA 300.0	490485	EPA 300.0	491036

REPORT OF LABORATORY ANALYSIS

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Date: 08/25/2017 11:00 AM

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 212C-MD-00938/EVGSAU 3366-029

Pace Project No.: 7572014


Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7572014020	EVGSAU 3366-029 SB-2 (14-15')	EPA 300.0	490485	EPA 300.0	491036
7572014021	EVGSAU 3366-029 SB-2(19-20')	EPA 300.0	490485	EPA 300.0	491036
7572014022	EVGSAU 3366-029 SB-3 (0-1')	EPA 300.0	490485	EPA 300.0	491036
7572014023	EVGSAU 3366-029 SB-3(2-3')	EPA 300.0	490485	EPA 300.0	491036
7572014024	EVGSAU 3366-029 SB-3 (4-5')	EPA 300.0	490485	EPA 300.0	491104
7572014025	EVGSAU 3366-029 SB-3(6-7')	EPA 300.0	490485	EPA 300.0	491036
7572014026	EVGSAU 3366-029 SB-3(9-10')	EPA 300.0	490485	EPA 300.0	491036
7572014027	EVGSAU 3366-029 SB-3 (14-15')	EPA 300.0	490485	EPA 300.0	491036
7572014028	EVGSAU 3366-029 SB-3(19-20')	EPA 300.0	490485	EPA 300.0	491036
7572014029	EVGSAU 3366-029 SB-3(24-25')	EPA 300.0	490485	EPA 300.0	491036

REPORT OF LABORATORY ANALYSIS

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Date: 08/25/2017 11:00 AM

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	Document Name: Sample Condition Upon Receipt	Document Revised: 7/25/16 Page 1 of 1
	Document No.: F-DAL-C-001-rev.06	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☒ Dallas ☐ Ft Worth ☐ San Angelo

WO#: 7572014

Client Name: Tetra Tech Project Work order:



Courier: FedEX ☒ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other:

Tracking#: 7420 8979 1910 / 7420 8979 1909

Custody Seal on Cooler/Box: Yes ☒ No ☐ Seals Intact: Yes ☒ No ☐ NA ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☒ Other ☐

Thermometer Used: IR-154 Type of Ice: Wet ☒ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☒

Cooler Temp °C: 4.3, 4.0 (Recorded) 0.2 (Correction Factor) 4.5, 4.2 (Actual) Temp should be above freezing to 6°C

Chain of Custody Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	1
Chain of Custody filled out	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	2
Chain of Custody relinquished	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	3
Sampler name & signature on COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	4
Sample received within HT	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	5
Short HT analyses (<72 hrs)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>	6
Rush TAT requested	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>	7
Sufficient Volume received	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	8
Correct Container used	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	9
Pace Container used	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	
Container Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	10
Unpreserved 5035A soil frozen within 48 hrs	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	11
Filtered volume received for Dissolved tests	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/>	12
Sample labels match COC	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	13
Include date/time/ID/analyses Matrix: <u>soil</u>		<u>Samples 22-29 do not match</u>
All containers needing preservation have been checked	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	14a. Lot# of pH strip: _____ Original pH: < <input type="checkbox"/> or > <input type="checkbox"/> 2 <input type="checkbox"/> 9 <input type="checkbox"/> 12 <input type="checkbox"/> or received Neutral <input type="checkbox"/> Lot# of Iodine strip: _____ Lot# of Lead Acetate strip: _____
Do containers require preservation at the lab	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	14b. Preservation: _____ Lot# and adjusted pH: _____ pH < 2 <input type="checkbox"/> pH > 9 <input type="checkbox"/> pH > 12 <input type="checkbox"/>
All containers needing preservation are found to be in Compliance with EPA recommendation	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	14c.
Exception: VOA, coliform, O&G	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Are soil samples (volatiles) received in Bulk <input type="checkbox"/> Terracore <input type="checkbox"/> EnCore <input type="checkbox"/> NA <input checked="" type="checkbox"/>		15.
Trip Blank present	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	16.
Trip Blank Custody Seals Intact	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	
Pace Trip Blank Lot# (if purchased): _____		
Headspace in VOA (>6mm)	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>	17.
Project sampled in USDA Regulated Area:	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>	18. List State <u>TX</u>

Client Notification/Resolution/Comments:

Person Contacted: _____

Date: _____

Comments/Resolution: _____

Person Examining Contents: SS

Date: 8/15/17

Project Manager Review: mm

Analysis Request of Chain of Custody Record

Page

1 of

3



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Conoco Phillips		Site Manager: Ike Tavaraz	
Project Name: EVGSAU 3366-029			
Project Location: (county, state)	Lea Co NM	Project #:	212C-MD-00938
Invoice to:			
Receiving Laboratory: Pace Analytical		Sampler Signature: Clint Merritt	
Comments: If TPH exceeds 1,000 mg/kg, run deeper sample. If Benzene exceeds 10mg/kg or total BTEX exceeds 50 mg/kg, run deeper sample.			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE				
001	EVGSAU 3366-029 SB-1 (0-1')	8/9/2017	14:00	X				X		1	
002	EVGSAU 3366-029 SB-1 (2-3')	8/9/2017	14:00	X				X		1	
003	EVGSAU 3366-029 SB-1 (4-5')	8/9/2017	14:00	X				X		1	
004	EVGSAU 3366-029 SB-1 (6-7')	8/9/2017	14:00	X				X		1	
005	EVGSAU 3366-029 SB-1 (9-10')	8/9/2017	14:00	X				X		1	
006	EVGSAU 3366-029 SB-1 (14-15')	8/9/2017	14:00	X				X		1	
007	EVGSAU 3366-029 SB-1 (19-20')	8/9/2017	14:00	X				X		1	
008	EVGSAU 3366-029 SB-1 (24-25')	8/9/2017	14:00	X				X		1	
009	EVGSAU 3366-029 SB-1 (29-30')	8/9/2017	14:00	X				X		1	
010	EVGSAU 3366-029 SB-1 (34-35')	8/9/2017	14:00	X				X		1	

Relinquished by: Clint Merritt	Date: 8/14/17	Time: 17:00
Relinquished by:	Date:	Time:
Relinquished by:	Date:	Time:

REMARKS:	LAB USE ONLY
<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	Sample Temperature 4.2, 4.5

ANALYSIS REQUEST (Circle or Specify Method No.)											
TPH 8015M (Ext to C35)											
TPH 8015M (GRO - DRO - ORO - MBO)											
PAH 8270C											
Total Metals Ag As Ba Cd Cr Pb Se Hg											
TCLP Metals Ag As Ba Cd Cr Pb Se Hg											
TCLP Volatiles											
TCLP Semi Volatiles											
RCI											
GC/MS Vol. 8260B / 624											
GC/MS Semi. Vol. 8270C/625											
PCBs 8082 / 608											
NORM											
PLM (Asbestos)											
Chloride											
Chloride Sulfate TDS											
General Water Chemistry (see attached list)											
Anion/Cation Balance											
Hold											

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: Conoco Phillips		Site Manager: Ike Tavaréz									
Project Name: EVGSAU 3366-029											
Project Location: (county, state)	Lea Co NM	Project #:	212C-MD-00938								
Invoice to:											
Receiving Laboratory: Pace Analytical		Sampler Signature: Clint Merritt									
Comments: If TPH exceeds 1,000 mg/kg, run deeper sample. If Benzene exceeds 10mg/kg or total BTEX exceeds 50 mg/kg, run deeper sample											
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
011	EVGSAU 3366-029 SB-1 (39'-40')	8/9/2017	14:00	X	X			X		1	
012	EVGSAU 3366-029 SB-1 (44'-45')	8/9/2017	14:00	X	X			X		1	
013	EVGSAU 3366-029 SB-1 (49'-50')	8/9/2017	14:00	X	X			X		1	
014	EVGSAU 3366-029 SB-1 (54'-55')	8/9/2017	14:00	X	X			X		1	
015	EVGSAU 3366-029 SB-2 (0'-1')	8/9/2017	15:00	X	X			X		1	
016	EVGSAU 3366-029 SB-2 (2'-3')	8/9/2017	15:00	X	X			X		1	
017	EVGSAU 3366-029 SB-2 (4'-5')	8/9/2017	15:00	X	X			X		1	
018	EVGSAU 3366-029 SB-2 (6'-7')	8/9/2017	15:00	X	X			X		1	
019	EVGSAU 3366-029 SB-2 (9'-10')	8/9/2017	15:00	X	X			X		1	
020	EVGSAU 3366-029 SB-2 (14'-15')	8/9/2017	15:00	X	X			X		1	
Relinquished by: Clint Merritt		Date: 8/14/17	Time: 17:00	Received by: [Signature]		Date: 8/15/17	Time: 10:55				
Relinquished by:		Date:	Time:	Received by:		Date:	Time:				
Relinquished by:		Date:	Time:	Received by:		Date:	Time:				

LAB USE ONLY

Sample Temperature: 4.2, 4.5

REMARKS:

☐ 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 #: 7420 8979 1910
7420 8979 1909

Analysis Request of Chain of Custody Record

Page 3 of 3



Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4659
Fax (432) 682-3946

Client Name: Conoco Phillips		Site Manager: Ike Tavaraz	
Project Name: EVGSAU 3366-029		Project #: 212C-MD-00938	
Project Location: (county, state) Lea Co NM		Invoice to:	
Receiving Laboratory: Pace Analytical		Sampler Signature: Clint Merritt	
Comments: If TPH exceeds 1,000 mg/kg, run deeper sample. If Benzene exceeds 10mg/kg or total BTEX exceeds 50 mg/kg, run deeper sample			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE				
021	EVGSAU 3366-029 SB-2 (19'-20')	8/8/2017	15:00	X				X		1	
022	EVGSAU 3366-029 SB-2 (0-1') *	8/9/2017	17:00	X				X		1	
023	EVGSAU 3366-029 SB-2 (2'-3')	8/9/2017	17:00	X				X		1	
024	EVGSAU 3366-029 SB-2 (4'-5')	8/9/2017	17:00	X				X		1	
025	EVGSAU 3366-029 SB-2 (6'-7')	8/9/2017	17:00	X				X		1	
026	EVGSAU 3366-029 SB-2 (9'-10')	8/9/2017	17:00	X				X		1	
027	EVGSAU 3366-029 SB-2 (14'-15')	8/9/2017	17:00	X				X		1	
028	EVGSAU 3366-029 SB-2 (19'-20')	8/9/2017	17:00	X				X		1	
029	EVGSAU 3366-029 SB-2 (24'-25')	8/9/2017	17:00	X				X		1	

Relinquished by: Clint Merritt	Date: 8/14/17	Time: 17:00
Relinquished by:	Date:	Time:
Relinquished by:	Date:	Time:

Received by:	Date: 8/15/17	Time: 0850
Received by:	Date:	Time:
Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
Sample Temperature: 4.2, 4.5	<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

ANALYSIS REQUEST (Circle or Specify Method No.)	Hold
TPH TX1005 (EXT to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCBs 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	

* corrected IDs to SB-3 per Orig Paper 8-16-17
ORIGINAL COPY

Remediation Report and Closure Report
Maverick Permian, LLC
EVGSAU 3366-029 Flowline Release
Incident IDs: nJXK1609752883 and nPRS0420835421

March 25, 2024

ATTACHMENT 3 – INITIAL REMEDIATION LABORATORY DATA



ANALYTICAL REPORT

February 05, 2019

ConocoPhillips - Tetra Tech

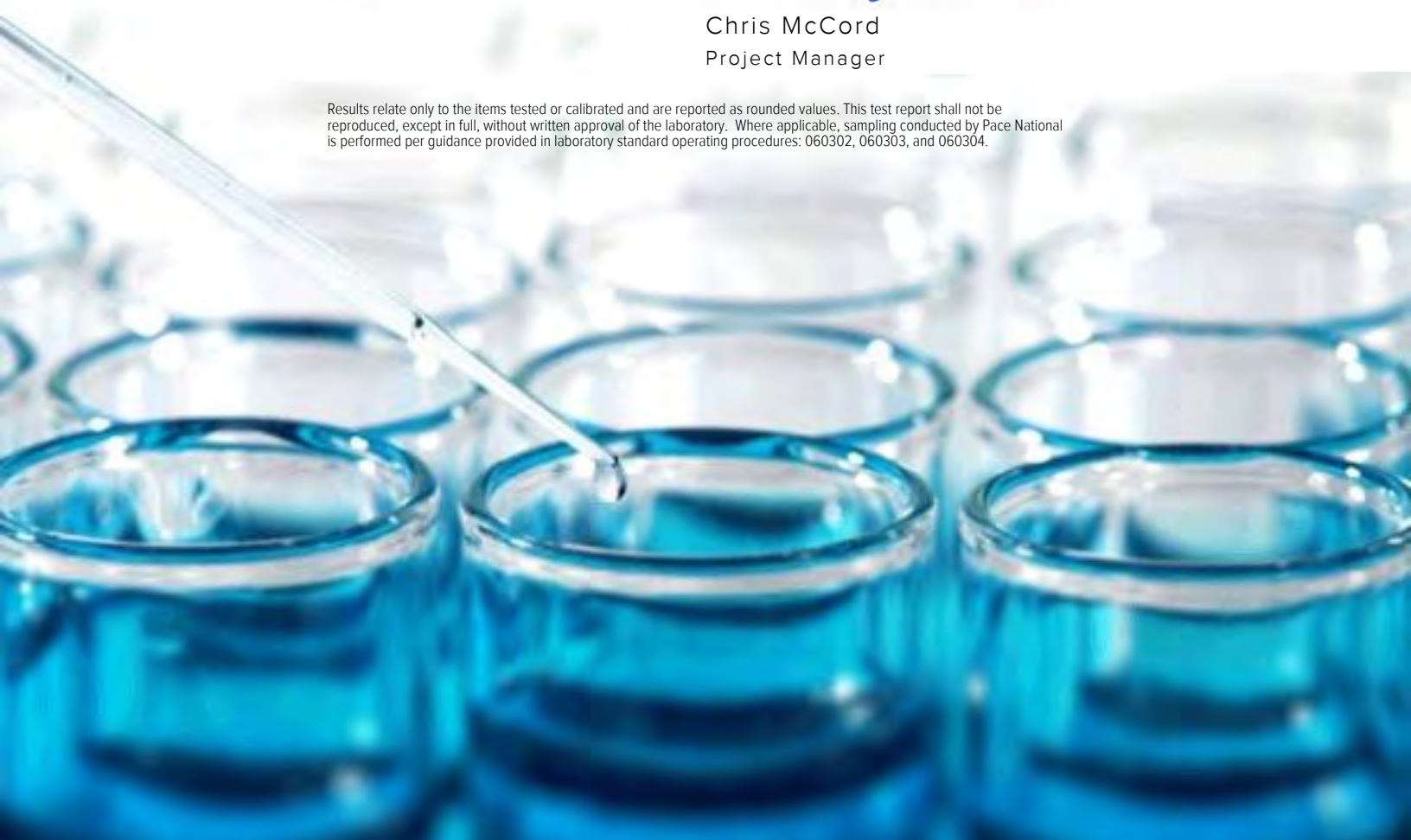
Sample Delivery Group: L1065066
Samples Received: 01/29/2019
Project Number: 212C-MD-01576
Description: EVGSAU 3366-029

Report To: Kayla Taylor
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page 1

Tc: Table of Contents 2

Ss: Sample Summary 3

Cn: Case Narrative 5

Sr: Sample Results 6

 ESW-2 (4') L1065066-01 6

 NSW-2 (4') L1065066-02 7

 SSW-2 (4') L1065066-03 8

 AH-2 (4') L1065066-04 9

 WSW-2 (4') L1065066-05 10

 SSW-2 (4' 1.5' OUT) L1065066-06 11

 WSW-2 (4' 1.5' OUT) L1065066-07 12

Qc: Quality Control Summary 13

 Total Solids by Method 2540 G-2011 13

 Wet Chemistry by Method 300.0 15

 Volatile Organic Compounds (GC) by Method 8015D/GRO 16

 Volatile Organic Compounds (GC/MS) by Method 8260B 17

 Semi-Volatile Organic Compounds (GC) by Method 8015 18

Gl: Glossary of Terms 19

Al: Accreditations & Locations 20

Sc: Sample Chain of Custody 21

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ESW-2 (4') L1065066-01 Solid

Collected by Devin Dominguez
Collected date/time 01/24/19 09:20
Received date/time 01/29/19 08:00

1

Cp

2

Tc

3

Ss

4

Cn

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1230766	1	01/31/19 11:34	01/31/19 11:42	KDW
Wet Chemistry by Method 300.0	WG1229855	1	01/30/19 10:00	01/30/19 20:17	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	01/30/19 16:22	02/03/19 16:18	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1230742	1	01/30/19 16:22	01/31/19 16:41	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1230859	1	01/31/19 11:57	02/01/19 03:38	DMW

NSW-2 (4') L1065066-02 Solid

Collected by Devin Dominguez
Collected date/time 01/24/19 09:23
Received date/time 01/29/19 08:00

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1230768	1	02/01/19 09:37	02/01/19 09:49	KBC
Wet Chemistry by Method 300.0	WG1229855	1	01/30/19 10:00	01/30/19 20:31	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	01/30/19 16:22	02/03/19 16:40	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1230742	1	01/30/19 16:22	01/31/19 17:01	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1230859	1	01/31/19 11:57	02/01/19 03:52	DMW

SSW-2 (4') L1065066-03 Solid

Collected by Devin Dominguez
Collected date/time 01/24/19 09:25
Received date/time 01/29/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1230768	1	02/01/19 09:37	02/01/19 09:49	KBC
Wet Chemistry by Method 300.0	WG1229855	5	01/30/19 10:00	01/30/19 20:46	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	01/30/19 16:22	02/03/19 17:02	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1230742	1	01/30/19 16:22	01/31/19 17:21	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1230859	1	01/31/19 11:57	02/01/19 04:05	DMW

AH-2 (4') L1065066-04 Solid

Collected by Devin Dominguez
Collected date/time 01/24/19 09:28
Received date/time 01/29/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1230768	1	02/01/19 09:37	02/01/19 09:49	KBC
Wet Chemistry by Method 300.0	WG1229855	1	01/30/19 10:00	01/30/19 21:00	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	01/30/19 16:22	02/03/19 17:24	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1230742	1	01/30/19 16:22	01/31/19 17:40	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1230859	1	01/31/19 11:57	02/01/19 02:57	DMW

WSW-2 (4') L1065066-05 Solid

Collected by Devin Dominguez
Collected date/time 01/24/19 09:30
Received date/time 01/29/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1230768	1	02/01/19 09:37	02/01/19 09:49	KBC
Wet Chemistry by Method 300.0	WG1229855	1	01/30/19 10:00	01/30/19 21:15	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	01/30/19 16:22	02/03/19 17:46	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1230742	1	01/30/19 16:22	01/31/19 18:00	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1230859	1	01/31/19 11:57	02/01/19 04:19	DMW

SSW-2 (4' 1.5' OUT) L1065066-06 Solid

Collected by Devin Dominguez
Collected date/time 01/24/19 16:00
Received date/time 01/29/19 08:00

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

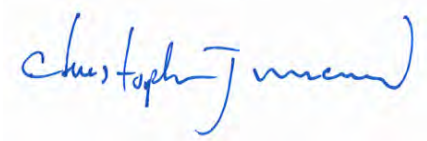
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1230768	1	02/01/19 09:37	02/01/19 09:49	KBC
Wet Chemistry by Method 300.0	WG1229855	5	01/30/19 10:00	01/30/19 21:58	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	01/30/19 16:22	02/03/19 18:09	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1230742	1	01/30/19 16:22	01/31/19 18:20	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1230859	1	01/31/19 11:57	02/01/19 04:33	DMW

WSW-2 (4' 1.5' OUT) L1065066-07 Solid

Collected by Devin Dominguez
Collected date/time 01/25/19 11:50
Received date/time 01/29/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1230768	1	02/01/19 09:37	02/01/19 09:49	KBC
Wet Chemistry by Method 300.0	WG1229855	5	01/30/19 10:00	01/30/19 22:12	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	01/30/19 16:22	02/03/19 18:31	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1230742	1	01/30/19 16:22	01/31/19 18:40	ACG
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1230859	1	01/31/19 11:57	02/01/19 04:46	DMW

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 01/24/19 09:20

L1065066

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.3		1	01/31/2019 11:42	WG1230766

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	103		0.890	10.0	11.2	1	01/30/2019 20:17	WG1229855

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0243	0.100	0.112	1	02/03/2019 16:18	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		02/03/2019 16:18	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U	J3	0.000448	0.00100	0.00112	1	01/31/2019 16:41	WG1230742
Toluene	U		0.00140	0.00500	0.00560	1	01/31/2019 16:41	WG1230742
Ethylbenzene	U		0.000593	0.00250	0.00280	1	01/31/2019 16:41	WG1230742
Total Xylenes	U		0.00535	0.00650	0.00728	1	01/31/2019 16:41	WG1230742
(S) Toluene-d8	130				75.0-131		01/31/2019 16:41	WG1230742
(S) Dibromofluoromethane	84.4				65.0-129		01/31/2019 16:41	WG1230742
(S) a,a,a-Trifluorotoluene	85.2				80.0-120		01/31/2019 16:41	WG1230742
(S) 4-Bromofluorobenzene	101				67.0-138		01/31/2019 16:41	WG1230742

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	97.6		1.80	4.00	4.48	1	02/01/2019 03:38	WG1230859
C28-C40 Oil Range	99.7		0.307	4.00	4.48	1	02/01/2019 03:38	WG1230859
(S) o-Terphenyl	64.5				18.0-148		02/01/2019 03:38	WG1230859

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.3		1	02/01/2019 09:49	WG1230768

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	377		0.853	10.0	10.7	1	01/30/2019 20:31	WG1229855

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0233	0.100	0.107	1	02/03/2019 16:40	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		02/03/2019 16:40	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000429	0.00100	0.00107	1	01/31/2019 17:01	WG1230742
Toluene	U		0.00134	0.00500	0.00536	1	01/31/2019 17:01	WG1230742
Ethylbenzene	U		0.000568	0.00250	0.00268	1	01/31/2019 17:01	WG1230742
Total Xylenes	U		0.00513	0.00650	0.00697	1	01/31/2019 17:01	WG1230742
(S) Toluene-d8	127				75.0-131		01/31/2019 17:01	WG1230742
(S) Dibromofluoromethane	88.0				65.0-129		01/31/2019 17:01	WG1230742
(S) a,a,a-Trifluorotoluene	85.2				80.0-120		01/31/2019 17:01	WG1230742
(S) 4-Bromofluorobenzene	101				67.0-138		01/31/2019 17:01	WG1230742

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.54		1.73	4.00	4.29	1	02/01/2019 03:52	WG1230859
C28-C40 Oil Range	3.32	J	0.294	4.00	4.29	1	02/01/2019 03:52	WG1230859
(S) o-Terphenyl	109				18.0-148		02/01/2019 03:52	WG1230859

Collected date/time: 01/24/19 09:25

L1065066

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.8		1	02/01/2019 09:49	WG1230768

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	1150		4.20	10.0	52.8	5	01/30/2019 20:46	WG1229855

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0229	0.100	0.106	1	02/03/2019 17:02	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	99.9				77.0-120		02/03/2019 17:02	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000422	0.00100	0.00106	1	01/31/2019 17:21	WG1230742
Toluene	U		0.00132	0.00500	0.00528	1	01/31/2019 17:21	WG1230742
Ethylbenzene	U		0.000559	0.00250	0.00264	1	01/31/2019 17:21	WG1230742
Total Xylenes	U		0.00504	0.00650	0.00686	1	01/31/2019 17:21	WG1230742
(S) Toluene-d8	128				75.0-131		01/31/2019 17:21	WG1230742
(S) Dibromofluoromethane	87.4				65.0-129		01/31/2019 17:21	WG1230742
(S) a,a,a-Trifluorotoluene	84.2				80.0-120		01/31/2019 17:21	WG1230742
(S) 4-Bromofluorobenzene	104				67.0-138		01/31/2019 17:21	WG1230742

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.45	J	1.70	4.00	4.22	1	02/01/2019 04:05	WG1230859
C28-C40 Oil Range	0.678	J	0.289	4.00	4.22	1	02/01/2019 04:05	WG1230859
(S) o-Terphenyl	94.8				18.0-148		02/01/2019 04:05	WG1230859

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.0		1	02/01/2019 09:49	WG1230768

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	926		0.864	10.0	10.9	1	01/30/2019 21:00	WG1229855

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0236	0.100	0.109	1	02/03/2019 17:24	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	99.5				77.0-120		02/03/2019 17:24	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000435	0.00100	0.00109	1	01/31/2019 17:40	WG1230742
Toluene	U		0.00136	0.00500	0.00543	1	01/31/2019 17:40	WG1230742
Ethylbenzene	U		0.000576	0.00250	0.00272	1	01/31/2019 17:40	WG1230742
Total Xylenes	U		0.00520	0.00650	0.00707	1	01/31/2019 17:40	WG1230742
(S) Toluene-d8	127				75.0-131		01/31/2019 17:40	WG1230742
(S) Dibromofluoromethane	90.0				65.0-129		01/31/2019 17:40	WG1230742
(S) a,a,a-Trifluorotoluene	86.2				80.0-120		01/31/2019 17:40	WG1230742
(S) 4-Bromofluorobenzene	101				67.0-138		01/31/2019 17:40	WG1230742

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.22	J	1.75	4.00	4.35	1	02/01/2019 02:57	WG1230859
C28-C40 Oil Range	0.503	J	0.298	4.00	4.35	1	02/01/2019 02:57	WG1230859
(S) o-Terphenyl	94.1				18.0-148		02/01/2019 02:57	WG1230859

WSW-2 (4)
Collected date/time: 01/24/19 09:30

L1065066

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.9		1	02/01/2019 09:49	WG1230768

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	690		0.838	10.0	10.5	1	01/30/2019 21:15	WG1229855

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0229	0.100	0.105	1	02/03/2019 17:46	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	100				77.0-120		02/03/2019 17:46	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000421	0.00100	0.00105	1	01/31/2019 18:00	WG1230742
Toluene	U		0.00132	0.00500	0.00527	1	01/31/2019 18:00	WG1230742
Ethylbenzene	U		0.000558	0.00250	0.00263	1	01/31/2019 18:00	WG1230742
Total Xylenes	U		0.00504	0.00650	0.00685	1	01/31/2019 18:00	WG1230742
(S) Toluene-d8	128				75.0-131		01/31/2019 18:00	WG1230742
(S) Dibromofluoromethane	86.0				65.0-129		01/31/2019 18:00	WG1230742
(S) a,a,a-Trifluorotoluene	84.7				80.0-120		01/31/2019 18:00	WG1230742
(S) 4-Bromofluorobenzene	101				67.0-138		01/31/2019 18:00	WG1230742

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	51.1		1.70	4.00	4.21	1	02/01/2019 04:19	WG1230859
C28-C40 Oil Range	32.8		0.289	4.00	4.21	1	02/01/2019 04:19	WG1230859
(S) o-Terphenyl	65.4				18.0-148		02/01/2019 04:19	WG1230859

Collected date/time: 01/24/19 16:00

L1065066

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.7		1	02/01/2019 09:49	WG1230768

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	2200		4.29	10.0	54.0	5	01/30/2019 21:58	WG1229855

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0234	0.100	0.108	1	02/03/2019 18:09	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		02/03/2019 18:09	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000432	0.00100	0.00108	1	01/31/2019 18:20	WG1230742
Toluene	U		0.00135	0.00500	0.00540	1	01/31/2019 18:20	WG1230742
Ethylbenzene	U		0.000572	0.00250	0.00270	1	01/31/2019 18:20	WG1230742
Total Xylenes	U		0.00516	0.00650	0.00702	1	01/31/2019 18:20	WG1230742
(S) Toluene-d8	128				75.0-131		01/31/2019 18:20	WG1230742
(S) Dibromofluoromethane	88.1				65.0-129		01/31/2019 18:20	WG1230742
(S) a,a,a-Trifluorotoluene	84.8				80.0-120		01/31/2019 18:20	WG1230742
(S) 4-Bromofluorobenzene	108				67.0-138		01/31/2019 18:20	WG1230742

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.12	J	1.74	4.00	4.32	1	02/01/2019 04:33	WG1230859
C28-C40 Oil Range	1.21	J	0.296	4.00	4.32	1	02/01/2019 04:33	WG1230859
(S) o-Terphenyl	115				18.0-148		02/01/2019 04:33	WG1230859

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.9		1	02/01/2019 09:49	WG1230768

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	1070		4.28	10.0	53.8	5	01/30/2019 22:12	WG1229855

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0234	0.100	0.108	1	02/03/2019 18:31	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	99.8				77.0-120		02/03/2019 18:31	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000431	0.00100	0.00108	1	01/31/2019 18:40	WG1230742
Toluene	U		0.00135	0.00500	0.00538	1	01/31/2019 18:40	WG1230742
Ethylbenzene	U		0.000570	0.00250	0.00269	1	01/31/2019 18:40	WG1230742
Total Xylenes	U		0.00514	0.00650	0.00700	1	01/31/2019 18:40	WG1230742
(S) Toluene-d8	128				75.0-131		01/31/2019 18:40	WG1230742
(S) Dibromofluoromethane	88.1				65.0-129		01/31/2019 18:40	WG1230742
(S) a,a,a-Trifluorotoluene	83.6				80.0-120		01/31/2019 18:40	WG1230742
(S) 4-Bromofluorobenzene	98.0				67.0-138		01/31/2019 18:40	WG1230742

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	3.38	J	1.73	4.00	4.31	1	02/01/2019 04:46	WG1230859
C28-C40 Oil Range	1.06	J	0.295	4.00	4.31	1	02/01/2019 04:46	WG1230859
(S) o-Terphenyl	122				18.0-148		02/01/2019 04:46	WG1230859

Total Solids by Method 2540 G-2011 [L1065066-01](#)

Method Blank (MB)

(MB) R3380414-1 01/31/19 11:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

L1065023-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1065023-14 01/31/19 11:42 • (DUP) R3380414-3 01/31/19 11:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	79.0	78.3	1	0.882		10

⁷ Gl

⁸ Al

Laboratory Control Sample (LCS)

(LCS) R3380414-2 01/31/19 11:42

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁹ Sc

Method Blank (MB)

(MB) R3380933-1 02/01/19 09:49

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1065067-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1065067-03 02/01/19 09:49 • (DUP) R3380933-3 02/01/19 09:49

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	83.3	82.2	1	1.40		10

Laboratory Control Sample (LCS)

(LCS) R3380933-2 02/01/19 09:49

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 300.0 [L1065066-01,02,03,04,05,06,07](#)

Method Blank (MB)

(MB) R3380133-1 01/30/19 15:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	3.85	<u>J</u>	0.795	10.0

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1064854-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1064854-03 01/30/19 19:48 • (DUP) R3380133-5 01/30/19 20:02

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	9.43	7.08	1	28.5	<u>J P1</u>	20

L1065075-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1065075-04 01/31/19 08:47 • (DUP) R3380133-7 01/31/19 09:01

Analyte	Original Result mg/kg	DUP Result mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	140	151	1	7.54		20

Laboratory Control Sample (LCS)

(LCS) R3380133-2 01/30/19 16:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	215	108	90.0-110	

L1062014-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1062014-05 01/30/19 23:10 • (MS) R3380133-3 01/30/19 17:09 • (MSD) R3380133-4 01/30/19 17:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	583	7650	7880	7880	39.4	39.6	1	80.0-120	<u>E V</u>	<u>E V</u>	0.0104	20

Volatile Organic Compounds (GC) by Method 8015D/GRO [L1065066-01,02,03,04,05,06,07](#)

Method Blank (MB)

(MB) R3380936-3 02/03/19 12:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3380936-1 02/03/19 11:35 • (LCSD) R3380936-2 02/03/19 11:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.37	6.32	116	115	72.0-127			0.650	20
(S) a,a,a-Trifluorotoluene(FID)				109	108	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

L1065066-01,02,03,04,05,06,07

Method Blank (MB)

(MB) R3380815-3 01/31/19 11:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	116			75.0-131
(S) Dibromofluoromethane	97.2			65.0-129
(S) a,a,a-Trifluorotoluene	88.2			80.0-120
(S) 4-Bromofluorobenzene	98.5			67.0-138

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3380815-1 01/31/19 09:06 • (LCSD) R3380815-2 01/31/19 09:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.118	0.115	94.4	92.2	70.0-123			2.29	20
Ethylbenzene	0.125	0.100	0.100	80.3	80.1	74.0-126			0.265	20
Toluene	0.125	0.148	0.150	119	120	75.0-121			0.922	20
Xylenes, Total	0.375	0.362	0.365	96.5	97.3	72.0-127			0.825	20
(S) Toluene-d8				101	102	75.0-131				
(S) Dibromofluoromethane				111	108	65.0-129				
(S) a,a,a-Trifluorotoluene				91.5	92.0	80.0-120				
(S) 4-Bromofluorobenzene				108	108	67.0-138				

L1065066-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065066-01 01/31/19 16:41 • (MS) R3380815-4 01/31/19 19:58 • (MSD) R3380815-5 01/31/19 20:18

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.140	U	0.0583	0.0876	41.7	62.6	1	10.0-149		J3	40.2	37
Ethylbenzene	0.140	U	0.0698	0.0919	49.9	65.7	1	10.0-160			27.2	38
Toluene	0.140	U	0.114	0.139	81.8	99.4	1	10.0-156			19.4	38
Xylenes, Total	0.420	U	0.297	0.336	70.7	80.0	1	10.0-160			12.4	38
(S) Toluene-d8					117	117		75.0-131				
(S) Dibromofluoromethane					87.4	88.8		65.0-129				
(S) a,a,a-Trifluorotoluene					86.1	84.4		80.0-120				
(S) 4-Bromofluorobenzene					101	101		67.0-138				

Semi-Volatile Organic Compounds (GC) by Method 8015

L1065066-01,02,03,04,05,06,07

Method Blank (MB)

(MB) R3380484-1 02/01/19 02:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	120			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3380484-2 02/01/19 02:29 • (LCSD) R3380484-3 02/01/19 02:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	50.0	44.6	44.3	89.2	88.6	50.0-150			0.675	20
(S) o-Terphenyl				135	130	18.0-148				

L1065066-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065066-04 02/01/19 02:57 • (MS) R3380484-4 02/01/19 03:10 • (MSD) R3380484-5 02/01/19 03:24

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	54.3	2.22	37.2	41.7	64.3	72.7	1	50.0-150			11.6	20
(S) o-Terphenyl					95.5	112		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

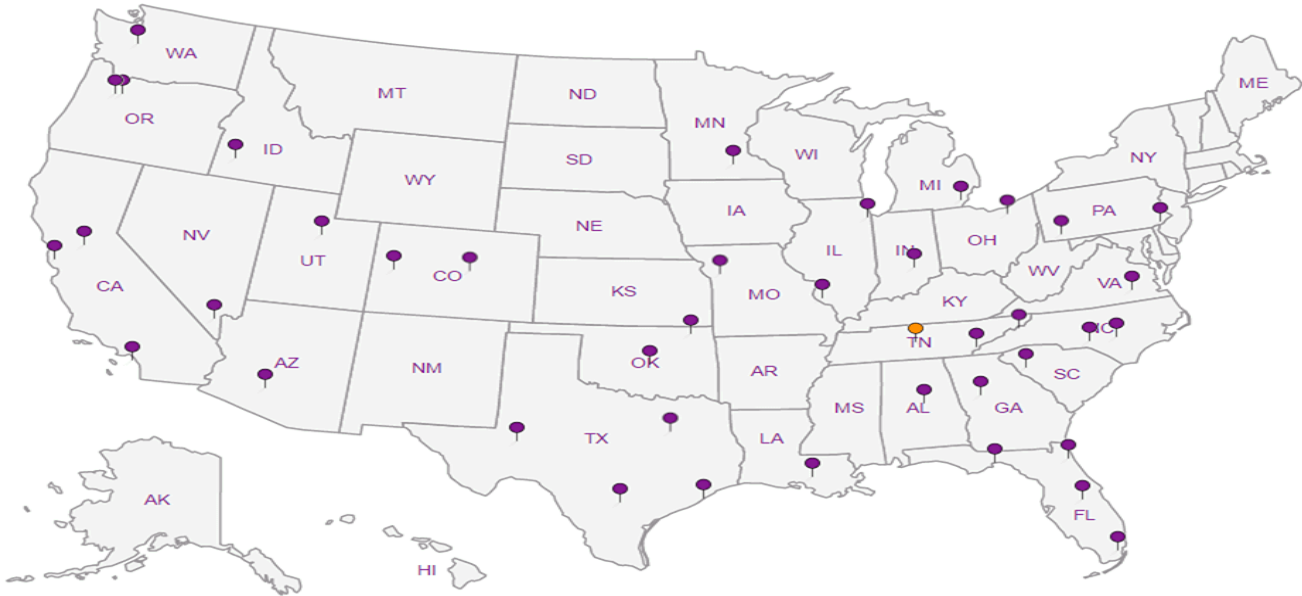
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

900 West Wyle Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4550
Fax (432) 682-3940

Page 1 of 1

L1065 066

Client Name:	ConocoPhillips	Site Manager:	Kayla Taylor
Project Name:	EVGSAU 3366-029		
Project Location: (county, state)	Lea County, New Mexico	Project #:	212C-MD-01576
Invoice to:			
Receiving Laboratory:	Pace Analytical	Sampler Signature:	Devin Dominguez
Comments:	COP TETRA		

ANALYSIS REQUEST
(Circle or Specify Method No.)[illegible][illegible]

Relinquished by: <i>Kayla Taylor</i>	Date: <i>1-28-19</i> Time: <i>13:30</i>	Received by: <i>Kohlman</i>	Date: <i>1-28-19</i> Time: <i>13:30</i>
Relinquished by:	Date: Time:	Received by:	Date: Time:
Relinquished by:	Date: Time:	Received by: <i>K Willis</i>	Date: <i>1/29/19</i> Time: <i>800</i>

LAB USE ONLY	REMARKS:
	<input checked="" type="checkbox"/> STANDARD
	<input type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr
	<input type="checkbox"/> Rush Charges Authorized
Sample Temperature	<input type="checkbox"/> Special Report Limits or TRRP Report

ORIGINAL COPY

B229

$$1 \cdot 0 = 0.95$$

RAD SCREEN: <0.5 mFWhr

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COP TETRA	SDG#	L1065066	
Cooler Received/Opened On: 1/29/19	Temperature:		
Received By: Kristin Willis			
Signature: KWillis			
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	/		
COC Signed / Accurate?		/	
Bottles arrive intact?		/	
Correct bottles used?		/	
Sufficient volume sent?		/	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			



ANALYTICAL REPORT

February 08, 2019

ConocoPhillips - Tetra Tech

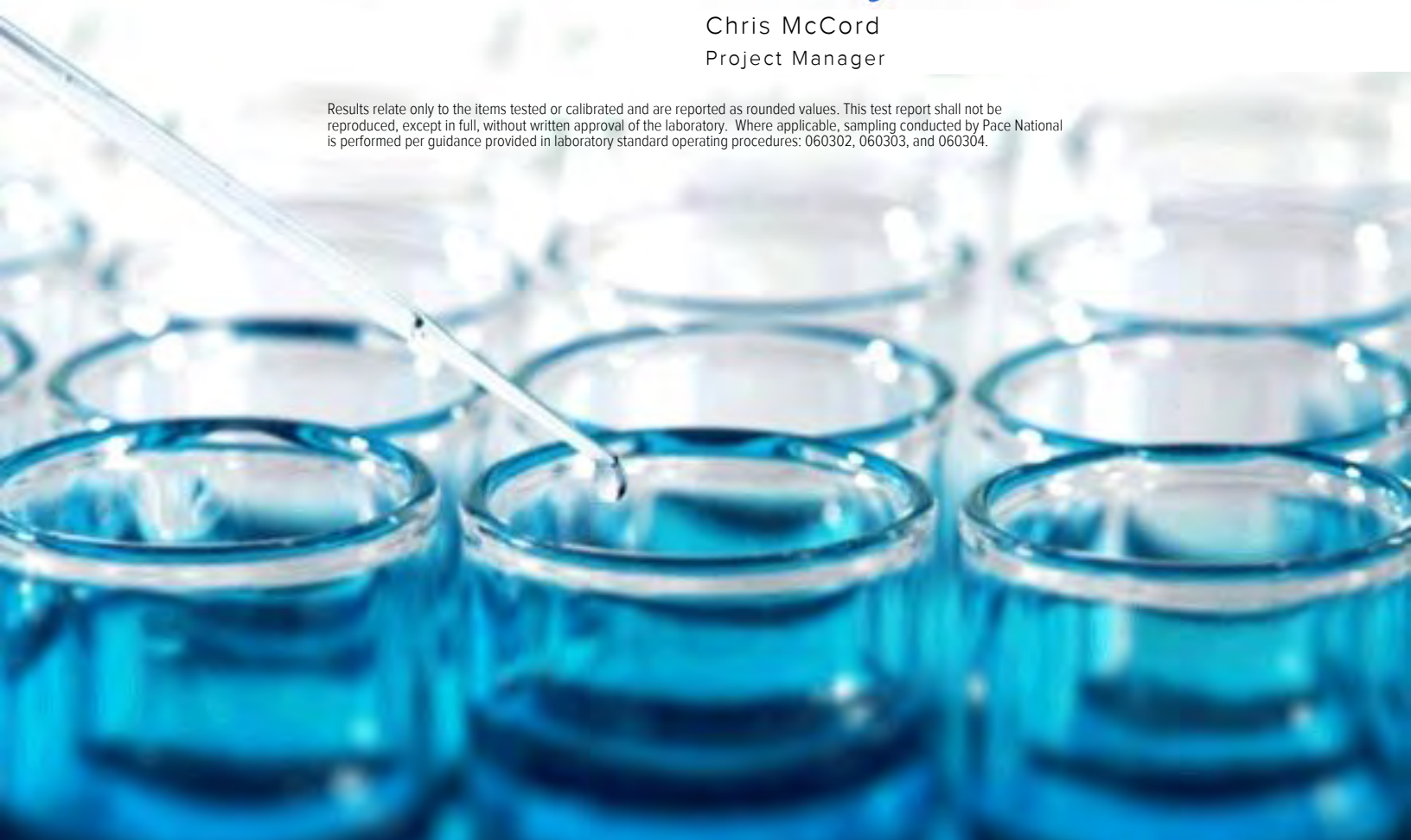
Sample Delivery Group: L1065691
Samples Received: 01/31/2019
Project Number: 212C-MD-01576
Description: EVGSAU 3366-029

Report To: Kayla Taylor
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1	<div>¹Cp</div>
Tc: Table of Contents	2	
Ss: Sample Summary	3	<div>²Tc</div>
Cn: Case Narrative	5	
Sr: Sample Results	6	<div>³Ss</div>
ESW-1 (4') L1065691-01	6	
NSW-1 (4') L1065691-02	7	<div>⁴Cn</div>
SSW-1 (4') L1065691-03	8	<div>⁵Sr</div>
AH-1 (4') L1065691-04	9	
WSW-1 (4') L1065691-05	10	<div>⁶Qc</div>
WSW-3 (4') L1065691-06	11	
ESW-3 (4') L1065691-07	12	<div>⁷Gl</div>
AH-3 (4') L1065691-08	13	<div>⁸Al</div>
SSW-2 (4' 3' OUT) L1065691-09	14	
Qc: Quality Control Summary	15	<div>⁹Sc</div>
Total Solids by Method 2540 G-2011	15	
Wet Chemistry by Method 300.0	16	
Volatile Organic Compounds (GC) by Method 8015D/GRO	17	
Volatile Organic Compounds (GC/MS) by Method 8260B	20	
Semi-Volatile Organic Compounds (GC) by Method 8015	21	
Gl: Glossary of Terms	22	
Al: Accreditations & Locations	23	
Sc: Sample Chain of Custody	24	

ESW-1 (4') L1065691-01 Solid

Collected by Devin Dominguez
Collected date/time 01/28/19 15:50
Received date/time 01/31/19 08:00

1

Cp

2

Tc

3

Ss

4

Cn

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231410	1	02/04/19 13:11	02/04/19 13:23	KDW
Wet Chemistry by Method 300.0	WG1231380	1	02/02/19 14:00	02/02/19 20:10	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	02/01/19 15:56	02/03/19 20:23	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1231846	1	02/01/19 15:56	02/03/19 00:27	JBE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1231397	1	02/01/19 19:55	02/02/19 05:12	DMW

NSW-1 (4') L1065691-02 Solid

Collected by Devin Dominguez
Collected date/time 01/28/19 15:53
Received date/time 01/31/19 08:00

5

Sr

6

Qc

7

Gl

8

Al

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231410	1	02/04/19 13:11	02/04/19 13:23	KDW
Wet Chemistry by Method 300.0	WG1231380	1	02/02/19 14:00	02/02/19 20:25	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	02/01/19 15:56	02/03/19 20:45	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1231846	1	02/01/19 15:56	02/03/19 00:48	JBE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1231397	1	02/01/19 19:55	02/02/19 05:26	DMW

SSW-1 (4') L1065691-03 Solid

Collected by Devin Dominguez
Collected date/time 01/28/19 15:56
Received date/time 01/31/19 08:00

9

Sc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231410	1	02/04/19 13:11	02/04/19 13:23	KDW
Wet Chemistry by Method 300.0	WG1231380	1	02/02/19 14:00	02/02/19 20:40	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	02/01/19 15:56	02/03/19 21:07	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1231846	1	02/01/19 15:56	02/03/19 01:08	JBE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1231397	1	02/01/19 19:55	02/02/19 05:40	DMW

AH-1 (4') L1065691-04 Solid

Collected by Devin Dominguez
Collected date/time 01/28/19 15:59
Received date/time 01/31/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231410	1	02/04/19 13:11	02/04/19 13:23	KDW
Wet Chemistry by Method 300.0	WG1231380	1	02/02/19 14:00	02/02/19 20:56	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	02/01/19 15:56	02/03/19 21:29	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1231846	1	02/01/19 15:56	02/03/19 01:29	JBE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1231397	1	02/01/19 19:55	02/02/19 05:53	DMW

WSW-1 (4') L1065691-05 Solid

Collected by Devin Dominguez
Collected date/time 01/28/19 16:04
Received date/time 01/31/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231410	1	02/04/19 13:11	02/04/19 13:23	KDW
Wet Chemistry by Method 300.0	WG1231380	1	02/02/19 14:00	02/02/19 21:42	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	02/01/19 15:56	02/03/19 21:52	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1231846	1	02/01/19 15:56	02/03/19 01:49	JBE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1231397	1	02/01/19 19:55	02/02/19 07:43	DMW

WSW-3 (4') L1065691-06 Solid

Collected by Devin Dominguez
Collected date/time 01/29/19 11:49
Received date/time 01/31/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231410	1	02/04/19 13:11	02/04/19 13:23	KDW
Wet Chemistry by Method 300.0	WG1231380	1	02/02/19 14:00	02/02/19 21:57	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	02/01/19 15:56	02/03/19 22:14	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1231846	1	02/01/19 15:56	02/03/19 02:10	JBE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1231397	1	02/01/19 19:55	02/02/19 06:48	DMW

1Cp

2Tc

3Ss

4Cn

ESW-3 (4') L1065691-07 Solid

Collected by Devin Dominguez
Collected date/time 01/29/19 11:51
Received date/time 01/31/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231410	1	02/04/19 13:11	02/04/19 13:23	KDW
Wet Chemistry by Method 300.0	WG1231380	1	02/02/19 14:00	02/02/19 22:13	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1231900	1	02/01/19 15:56	02/03/19 22:36	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1231846	1	02/01/19 15:56	02/03/19 02:30	JBE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1231397	1	02/01/19 19:55	02/02/19 07:02	DMW

5Sr

6Qc

7Gl

8Al

AH-3 (4') L1065691-08 Solid

Collected by Devin Dominguez
Collected date/time 01/29/19 11:53
Received date/time 01/31/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231410	1	02/04/19 13:11	02/04/19 13:23	KDW
Wet Chemistry by Method 300.0	WG1231380	1	02/02/19 14:00	02/02/19 22:28	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1232503	1	02/05/19 11:49	02/05/19 12:08	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1231846	1	02/01/19 15:56	02/03/19 02:51	JBE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1231397	1	02/01/19 19:55	02/02/19 07:16	DMW

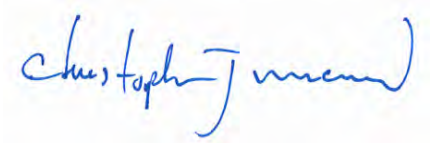
9Sc

SSW-2 (4' 3' OUT) L1065691-09 Solid

Collected by Devin Dominguez
Collected date/time 01/29/19 14:30
Received date/time 01/31/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1231410	1	02/04/19 13:11	02/04/19 13:23	KDW
Wet Chemistry by Method 300.0	WG1231380	5	02/02/19 14:00	02/02/19 22:44	ST
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1232168	1	02/01/19 15:56	02/04/19 15:19	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1231846	1	02/01/19 15:56	02/03/19 03:11	JBE
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1231397	1	02/01/19 19:55	02/02/19 07:30	DMW

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 01/28/19 15:50

L1065691

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.4		1	02/04/2019 13:23	WG1231410

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	133		0.880	10.0	11.1	1	02/02/2019 20:10	WG1231380

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0240	0.100	0.111	1	02/03/2019 20:23	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		02/03/2019 20:23	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000443	0.00100	0.00111	1	02/03/2019 00:27	WG1231846
Toluene	U		0.00138	0.00500	0.00553	1	02/03/2019 00:27	WG1231846
Ethylbenzene	U		0.000586	0.00250	0.00277	1	02/03/2019 00:27	WG1231846
Total Xylenes	U		0.00529	0.00650	0.00719	1	02/03/2019 00:27	WG1231846
(S) Toluene-d8	110				75.0-131		02/03/2019 00:27	WG1231846
(S) Dibromofluoromethane	97.5				65.0-129		02/03/2019 00:27	WG1231846
(S) a,a,a-Trifluorotoluene	105				80.0-120		02/03/2019 00:27	WG1231846
(S) 4-Bromofluorobenzene	93.4				67.0-138		02/03/2019 00:27	WG1231846

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.96	J	1.78	4.00	4.43	1	02/02/2019 05:12	WG1231397
C28-C40 Oil Range	U		0.303	4.00	4.43	1	02/02/2019 05:12	WG1231397
(S) o-Terphenyl	105				18.0-148		02/02/2019 05:12	WG1231397

Collected date/time: 01/28/19 15:53

L1065691

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.3		1	02/04/2019 13:23	WG1231410

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Chloride	567		0.834	10.0	10.5	1	02/02/2019 20:25	WG1231380

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0228	0.100	0.105	1	02/03/2019 20:45	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	100				77.0-120		02/03/2019 20:45	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
Benzene	U		0.000420	0.00100	0.00105	1	02/03/2019 00:48	WG1231846
Toluene	U		0.00131	0.00500	0.00524	1	02/03/2019 00:48	WG1231846
Ethylbenzene	U		0.000556	0.00250	0.00262	1	02/03/2019 00:48	WG1231846
Total Xylenes	U		0.00501	0.00650	0.00682	1	02/03/2019 00:48	WG1231846
(S) Toluene-d8	110				75.0-131		02/03/2019 00:48	WG1231846
(S) Dibromofluoromethane	96.4				65.0-129		02/03/2019 00:48	WG1231846
(S) a,a,a-Trifluorotoluene	103				80.0-120		02/03/2019 00:48	WG1231846
(S) 4-Bromofluorobenzene	99.5				67.0-138		02/03/2019 00:48	WG1231846

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	7.30		1.69	4.00	4.20	1	02/02/2019 05:26	WG1231397
C28-C40 Oil Range	6.65		0.287	4.00	4.20	1	02/02/2019 05:26	WG1231397
(S) o-Terphenyl	91.2				18.0-148		02/02/2019 05:26	WG1231397

Collected date/time: 01/28/19 15:56

L1065691

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.5		1	02/04/2019 13:23	WG1231410

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	173		0.860	10.0	10.8	1	02/02/2019 20:40	WG1231380

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0235	0.100	0.108	1	02/03/2019 21:07	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		02/03/2019 21:07	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000433	0.00100	0.00108	1	02/03/2019 01:08	WG1231846
Toluene	U		0.00135	0.00500	0.00541	1	02/03/2019 01:08	WG1231846
Ethylbenzene	U		0.000573	0.00250	0.00270	1	02/03/2019 01:08	WG1231846
Total Xylenes	U		0.00517	0.00650	0.00703	1	02/03/2019 01:08	WG1231846
(S) Toluene-d8	108				75.0-131		02/03/2019 01:08	WG1231846
(S) Dibromofluoromethane	92.4				65.0-129		02/03/2019 01:08	WG1231846
(S) a,a,a-Trifluorotoluene	106				80.0-120		02/03/2019 01:08	WG1231846
(S) 4-Bromofluorobenzene	94.9				67.0-138		02/03/2019 01:08	WG1231846

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.17	J	1.74	4.00	4.33	1	02/02/2019 05:40	WG1231397
C28-C40 Oil Range	2.52	J	0.296	4.00	4.33	1	02/02/2019 05:40	WG1231397
(S) o-Terphenyl	84.4				18.0-148		02/02/2019 05:40	WG1231397

Collected date/time: 01/28/19 15:59

L1065691

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.5		1	02/04/2019 13:23	WG1231410

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	80.5		0.851	10.0	10.7	1	02/02/2019 20:56	WG1231380

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0232	0.100	0.107	1	02/03/2019 21:29	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		02/03/2019 21:29	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000428	0.00100	0.00107	1	02/03/2019 01:29	WG1231846
Toluene	U		0.00134	0.00500	0.00535	1	02/03/2019 01:29	WG1231846
Ethylbenzene	U		0.000567	0.00250	0.00267	1	02/03/2019 01:29	WG1231846
Total Xylenes	U		0.00511	0.00650	0.00695	1	02/03/2019 01:29	WG1231846
(S) Toluene-d8	110				75.0-131		02/03/2019 01:29	WG1231846
(S) Dibromofluoromethane	91.5				65.0-129		02/03/2019 01:29	WG1231846
(S) a,a,a-Trifluorotoluene	104				80.0-120		02/03/2019 01:29	WG1231846
(S) 4-Bromofluorobenzene	96.0				67.0-138		02/03/2019 01:29	WG1231846

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.51	J	1.72	4.00	4.28	1	02/02/2019 05:53	WG1231397
C28-C40 Oil Range	U		0.293	4.00	4.28	1	02/02/2019 05:53	WG1231397
(S) o-Terphenyl	95.0				18.0-148		02/02/2019 05:53	WG1231397

WSW-1147
Collected date/time: 01/28/19 16:04

L1065691

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.1		1	02/04/2019 13:23	WG1231410

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	466		0.854	10.0	10.7	1	02/02/2019 21:42	WG1231380

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0233	0.100	0.107	1	02/03/2019 21:52	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	100				77.0-120		02/03/2019 21:52	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000430	0.00100	0.00107	1	02/03/2019 01:49	WG1231846
Toluene	U		0.00134	0.00500	0.00537	1	02/03/2019 01:49	WG1231846
Ethylbenzene	U		0.000569	0.00250	0.00269	1	02/03/2019 01:49	WG1231846
Total Xylenes	U		0.00513	0.00650	0.00698	1	02/03/2019 01:49	WG1231846
(S) Toluene-d8	111				75.0-131		02/03/2019 01:49	WG1231846
(S) Dibromofluoromethane	92.4				65.0-129		02/03/2019 01:49	WG1231846
(S) a,a,a-Trifluorotoluene	103				80.0-120		02/03/2019 01:49	WG1231846
(S) 4-Bromofluorobenzene	95.6				67.0-138		02/03/2019 01:49	WG1231846

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	22.7		1.73	4.00	4.30	1	02/02/2019 07:43	WG1231397
C28-C40 Oil Range	20.9		0.294	4.00	4.30	1	02/02/2019 07:43	WG1231397
(S) o-Terphenyl	68.8				18.0-148		02/02/2019 07:43	WG1231397

Collected date/time: 01/29/19 11:49

L1065691

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.8		1	02/04/2019 13:23	WG1231410

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	122		0.866	10.0	10.9	1	02/02/2019 21:57	WG1231380

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0236	0.100	0.109	1	02/03/2019 22:14	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	101				77.0-120		02/03/2019 22:14	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000436	0.00100	0.00109	1	02/03/2019 02:10	WG1231846
Toluene	U		0.00136	0.00500	0.00545	1	02/03/2019 02:10	WG1231846
Ethylbenzene	U		0.000577	0.00250	0.00272	1	02/03/2019 02:10	WG1231846
Total Xylenes	U		0.00521	0.00650	0.00708	1	02/03/2019 02:10	WG1231846
(S) Toluene-d8	110				75.0-131		02/03/2019 02:10	WG1231846
(S) Dibromofluoromethane	90.1				65.0-129		02/03/2019 02:10	WG1231846
(S) a,a,a-Trifluorotoluene	103				80.0-120		02/03/2019 02:10	WG1231846
(S) 4-Bromofluorobenzene	88.2				67.0-138		02/03/2019 02:10	WG1231846

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.04	J	1.75	4.00	4.36	1	02/02/2019 06:48	WG1231397
C28-C40 Oil Range	U		0.299	4.00	4.36	1	02/02/2019 06:48	WG1231397
(S) o-Terphenyl	106				18.0-148		02/02/2019 06:48	WG1231397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.7		1	02/04/2019 13:23	WG1231410

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	235		0.858	10.0	10.8	1	02/02/2019 22:13	WG1231380

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0234	0.100	0.108	1	02/03/2019 22:36	WG1231900
(S) a,a,a-Trifluorotoluene(FID)	100				77.0-120		02/03/2019 22:36	WG1231900

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000431	0.00100	0.00108	1	02/03/2019 02:30	WG1231846
Toluene	U		0.00135	0.00500	0.00539	1	02/03/2019 02:30	WG1231846
Ethylbenzene	U		0.000572	0.00250	0.00270	1	02/03/2019 02:30	WG1231846
Total Xylenes	U		0.00515	0.00650	0.00701	1	02/03/2019 02:30	WG1231846
(S) Toluene-d8	114				75.0-131		02/03/2019 02:30	WG1231846
(S) Dibromofluoromethane	91.2				65.0-129		02/03/2019 02:30	WG1231846
(S) a,a,a-Trifluorotoluene	106				80.0-120		02/03/2019 02:30	WG1231846
(S) 4-Bromofluorobenzene	98.4				67.0-138		02/03/2019 02:30	WG1231846

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.58	J	1.74	4.00	4.31	1	02/02/2019 07:02	WG1231397
C28-C40 Oil Range	1.55	J	0.295	4.00	4.31	1	02/02/2019 07:02	WG1231397
(S) o-Terphenyl	109				18.0-148		02/02/2019 07:02	WG1231397

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	02/04/2019 13:23	WG1231410

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	147		0.842	10.0	10.6	1	02/02/2019 22:28	WG1231380

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0230	0.100	0.106	1	02/05/2019 12:08	WG1232503
(S) a,a,a-Trifluorotoluene(FID)	96.6				77.0-120		02/05/2019 12:08	WG1232503

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000424	0.00100	0.00106	1	02/03/2019 02:51	WG1231846
Toluene	U		0.00132	0.00500	0.00529	1	02/03/2019 02:51	WG1231846
Ethylbenzene	U		0.000561	0.00250	0.00265	1	02/03/2019 02:51	WG1231846
Total Xylenes	U		0.00506	0.00650	0.00688	1	02/03/2019 02:51	WG1231846
(S) Toluene-d8	112				75.0-131		02/03/2019 02:51	WG1231846
(S) Dibromofluoromethane	97.1				65.0-129		02/03/2019 02:51	WG1231846
(S) a,a,a-Trifluorotoluene	107				80.0-120		02/03/2019 02:51	WG1231846
(S) 4-Bromofluorobenzene	96.1				67.0-138		02/03/2019 02:51	WG1231846

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.00	4.24	1	02/02/2019 07:16	WG1231397
C28-C40 Oil Range	U		0.290	4.00	4.24	1	02/02/2019 07:16	WG1231397
(S) o-Terphenyl	118				18.0-148		02/02/2019 07:16	WG1231397

Collected date/time: 01/29/19 14:30

L1065691

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.3		1	02/04/2019 13:23	WG1231410

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Chloride	1430		4.22	10.0	53.0	5	02/02/2019 22:44	WG1231380

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0230	0.100	0.106	1	02/04/2019 15:19	WG1232168
(S) a,a,a-Trifluorotoluene(FID)	104				77.0-120		02/04/2019 15:19	WG1232168

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
Benzene	U	J3	0.000424	0.00100	0.00106	1	02/03/2019 03:11	WG1231846
Toluene	U	J3	0.00133	0.00500	0.00530	1	02/03/2019 03:11	WG1231846
Ethylbenzene	U	J3	0.000562	0.00250	0.00265	1	02/03/2019 03:11	WG1231846
Total Xylenes	U	J3	0.00507	0.00650	0.00689	1	02/03/2019 03:11	WG1231846
(S) Toluene-d8	108				75.0-131		02/03/2019 03:11	WG1231846
(S) Dibromofluoromethane	93.6				65.0-129		02/03/2019 03:11	WG1231846
(S) a,a,a-Trifluorotoluene	102				80.0-120		02/03/2019 03:11	WG1231846
(S) 4-Bromofluorobenzene	98.6				67.0-138		02/03/2019 03:11	WG1231846

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	SDL (dry)	Unadj. MQL	MQL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.71	4.00	4.24	1	02/02/2019 07:30	WG1231397
C28-C40 Oil Range	U		0.290	4.00	4.24	1	02/02/2019 07:30	WG1231397
(S) o-Terphenyl	112				18.0-148		02/02/2019 07:30	WG1231397

Method Blank (MB)

(MB) R3381196-1 02/04/19 13:23

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1065691-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1065691-01 02/04/19 13:23 • (DUP) R3381196-3 02/04/19 13:23

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	90.4	89.8	1	0.695		10

Laboratory Control Sample (LCS)

(LCS) R3381196-2 02/04/19 13:23

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3381191-1 02/02/19 15:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	0.909	⬇	0.795	10.0

L1065677-34 Original Sample (OS) • Duplicate (DUP)

(OS) L1065677-34 02/02/19 16:19 • (DUP) R3381191-3 02/02/19 16:34

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2050	2030	5	0.897		20

L1065703-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1065703-01 02/02/19 22:59 • (DUP) R3381191-6 02/02/19 23:15

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	12.1	10.7	1	13.0		20

Laboratory Control Sample (LCS)

(LCS) R3381191-2 02/02/19 15:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	212	106	90.0-110	

L1065677-39 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065677-39 02/02/19 17:51 • (MS) R3381191-4 02/02/19 18:37 • (MSD) R3381191-5 02/02/19 18:53

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	533	4590	4830	4930	44.8	63.4	1	80.0-120	EV	EV	2.03	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO
[L1065691-01,02,03,04,05,06,07](#)

Method Blank (MB)

(MB) R3380936-3 02/03/19 12:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3380936-1 02/03/19 11:35 • (LCSD) R3380936-2 02/03/19 11:57

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.37	6.32	116	115	72.0-127			0.650	20
(S) a,a,a-Trifluorotoluene(FID)				109	108	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO [L1065691-09](#)

Method Blank (MB)

(MB) R3381047-5 02/04/19 11:53

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3381047-3 02/04/19 10:47 • (LCSD) R3381047-4 02/04/19 11:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.65	5.61	103	102	72.0-127			0.658	20
(S) a,a,a-Trifluorotoluene(FID)				104	103	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO [L1065691-08](#)

Method Blank (MB)

(MB) R3381319-3 02/05/19 10:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3381319-1 02/05/19 09:15 • (LCSD) R3381319-2 02/05/19 09:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.14	5.78	112	105	72.0-127			6.13	20
(S) a,a,a-Trifluorotoluene(FID)				119	118	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

L1065691-01,02,03,04,05,06,07,08,09

Method Blank (MB)

(MB) R3381426-2 02/02/19 21:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000400	0.00100
Ethylbenzene	U		0.000530	0.00250
Toluene	U		0.00125	0.00500
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	115			75.0-131
(S) Dibromofluoromethane	92.1			65.0-129
(S) a,a,a-Trifluorotoluene	104			80.0-120
(S) 4-Bromofluorobenzene	94.5			67.0-138

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3381426-1 02/02/19 20:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.110	87.8	70.0-123	
Ethylbenzene	0.125	0.120	96.2	74.0-126	
Toluene	0.125	0.126	101	75.0-121	
Xylenes, Total	0.375	0.416	111	72.0-127	
(S) Toluene-d8			108	75.0-131	
(S) Dibromofluoromethane			109	65.0-129	
(S) a,a,a-Trifluorotoluene			110	80.0-120	
(S) 4-Bromofluorobenzene			102	67.0-138	

L1065691-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065691-09 02/03/19 03:11 • (MS) R3381426-3 02/03/19 04:54 • (MSD) R3381426-4 02/03/19 05:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.133	U	0.0827	0.0371	62.4	28.0	1	10.0-149		J3	76.1	37
Ethylbenzene	0.133	U	0.0909	0.0367	68.6	27.7	1	10.0-160		J3	85.0	38
Toluene	0.133	U	0.0952	0.0438	71.8	33.0	1	10.0-156		J3	74.0	38
Xylenes, Total	0.398	U	0.317	0.140	79.7	35.3	1	10.0-160		J3	77.2	38
(S) Toluene-d8					104	107		75.0-131				
(S) Dibromofluoromethane					93.3	96.3		65.0-129				
(S) a,a,a-Trifluorotoluene					102	107		80.0-120				
(S) 4-Bromofluorobenzene					100	99.2		67.0-138				

Semi-Volatile Organic Compounds (GC) by Method 8015

L1065691-01,02,03,04,05,06,07,08,09

Method Blank (MB)

(MB) R3380776-1 02/01/19 23:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	136			18.0-148

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3380776-2 02/02/19 00:10 • (LCSD) R3380776-3 02/02/19 00:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Extractable Petroleum Hydrocarbon	50.0	40.6	39.1	81.2	78.2	50.0-150			3.76	20
C10-C28 Diesel Range	50.0	45.9	44.4	91.8	88.8	50.0-150			3.32	20
(S) o-Terphenyl				146	132	18.0-148				

L1065349-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1065349-04 02/02/19 04:31 • (MS) R3380776-4 02/02/19 04:45 • (MSD) R3380776-5 02/02/19 04:58

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Extractable Petroleum Hydrocarbon	49.7	ND	42.5	45.2	85.5	90.4	1	50.0-150			6.16	20
C10-C28 Diesel Range	49.7	9.11	54.1	56.7	90.5	95.2	1	50.0-150			4.69	20
(S) o-Terphenyl					67.4	113		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MQL (dry)	Method Quantitation Limit.
MQL	Method Quantitation Limit.
ND	Not detected at the Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
SDL (dry)	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

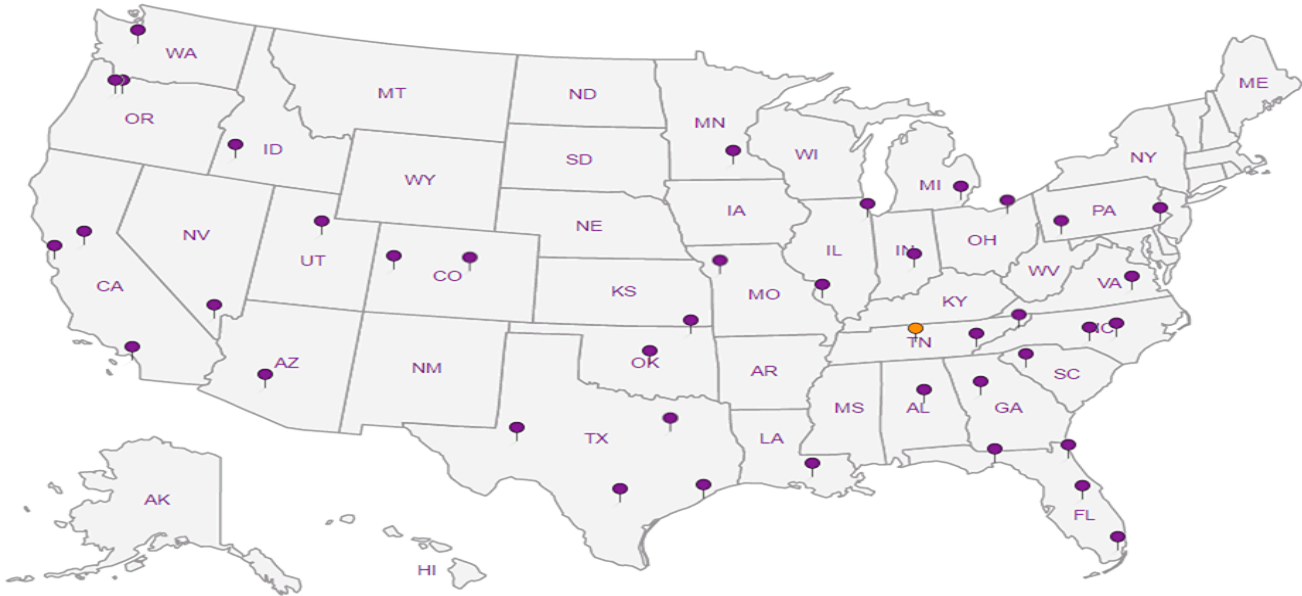
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 100 West Wall Street, Ste. 100
 Midland, Texas 79701
 Tel (432) 682-4559
 Fax (432) 682-3946

Page 1 of 1

Client Name: **ConocoPhillips** Site Manager: **Kayla Taylor**

Project Name: **EVGSAU 3366-029**

Project Location: (county, state) **Lea County, New Mexico** Project #: **212C-MD-01576**

Invoice to:

Receiving Laboratory: **Pace Analytical** Sampler Signature: **Devin Dominguez**

Comments: **COP TETRA**

ANALYSIS REQUEST
 (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)																	Hold						
		YEAR: 2019		WATER	SOIL	HCL	HNO ₃	ICE	None			BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH BD15M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0		Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R		
		DATE	TIME																															
L106541-01	ESW-1 (4')	1/28/2019	1550		X			X		1	N	X	X																					
02	NSW-1 (4')	1/28/2019	1553		X			X		1	N	X	X																					
03	SSW-1 (4')	1/28/2019	1556		X			X		1	N	X	X																					
04	AH-1 (4')	1/28/2019	1559		X			X		1	N	X	X																					
05	WSW-1 (4')	1/28/2019	1604		X			X		1	N	X	X																					
06	WSW-3 (4')	1/29/2019	1149		X			X		1	N	X	X																					
07	ESW-3 (4')	1/29/2019	1151		X			X		1	N	X	X																					
08	AH-3 (4')	1/29/2019	1153		X			X		1	N	X	X																					
09	SSW-2 (4' 3' out)	1/29/2019	1430		X			X		1	N	X	X																					
Relinquished by: <i>[Signature]</i>		Date: <i>1/29/2019</i> Time: <i>1430</i>		Received by: <i>[Signature]</i>		Date: <i>1/29/2019</i> Time: <i>1430</i>																		X										

 Relinquished by: **Kayla Taylor** Date: **1/30/19** Time: **1615**

 Received by: **[Signature]** Date: **1/30/19** Time: **1650**

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

 Received by: **[Signature]** Date: **01/31/19** Time: **08:00**

LAB USE ONLY

Sample Temperature

0.4°C = 0.5°F

REMARKS:

☒ STANDARD☐ RUSH! Same Day 24 hr 48 hr 72 hr☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

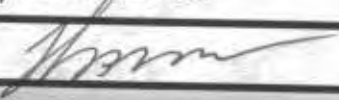
ORIGINAL COPY

F038

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

RAD SCREEN 31-514

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:		CAPTETRA		SDG#		1.1065691	
Cooler Received/Opened On: 01/31/19				Temperature:		0.5	
Received By: Thomas Virden							
Signature: 							
Receipt Check List							
				NP	Yes	No	
COC Seal Present / Intact?				/			
COC Signed / Accurate?					/		
Bottles arrive intact?					/		
Correct bottles used?					/		
Sufficient volume sent?					/		
If Applicable							
VOA Zero headspace?							
Preservation Correct / Checked?							

Remediation Report and Closure Report
Maverick Permian, LLC
EVGSAU 3366-029 Flowline Release
Incident IDs: nJXK1609752883 and nPRS0420835421

March 25, 2024

ATTACHMENT 4 – ADDITIONAL ASSESSMENT LABORATORY DATA



ANALYTICAL REPORT

June 08, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group: L1223377
Samples Received: 05/29/2020
Project Number: 212C-MD-01576
Description: EVGSAU 3366-029

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Cp: Cover Page	1	<div>¹Cp</div>
Tc: Table of Contents	2	
Ss: Sample Summary	3	<div>²Tc</div>
Cn: Case Narrative	4	
Sr: Sample Results	5	<div>³Ss</div>
BH-20-1S (0-1) L1223377-01	5	
BH-20-1S (2-3) L1223377-02	6	<div>⁴Cn</div>
BH-20-1S (4-5) L1223377-03	7	<div>⁵Sr</div>
Qc: Quality Control Summary	8	
Total Solids by Method 2540 G-2011	8	<div>⁶Qc</div>
Wet Chemistry by Method 300.0	9	
Volatile Organic Compounds (GC) by Method 8015D/GRO	10	<div>⁷Gl</div>
Volatile Organic Compounds (GC/MS) by Method 8260B	11	<div>⁸Al</div>
Semi-Volatile Organic Compounds (GC) by Method 8015	12	
Gl: Glossary of Terms	13	<div>⁹Sc</div>
Al: Accreditations & Locations	14	
Sc: Sample Chain of Custody	15	

BH-20-1S (0-1) L1223377-01 Solid

Collected by Joe Tyler
Collected date/time 05/21/20 13:00
Received date/time 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1487467	1	05/31/20 12:00	06/01/20 02:39	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1484936	1	05/30/20 09:57	05/31/20 13:16	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1484818	1	05/30/20 09:57	05/30/20 23:57	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/05/20 15:12	KME	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

BH-20-1S (2-3) L1223377-02 Solid

Collected by Joe Tyler
Collected date/time 05/21/20 13:05
Received date/time 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1487467	1	05/31/20 12:00	06/01/20 03:04	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1484936	1	05/30/20 09:57	05/31/20 13:40	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1484818	1	05/30/20 09:57	05/31/20 00:16	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/05/20 15:39	KME	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al


9Sc

BH-20-1S (4-5) L1223377-03 Solid

Collected by Joe Tyler
Collected date/time 05/21/20 13:10
Received date/time 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486307	1	06/03/20 22:07	06/03/20 22:18	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1487467	10	05/31/20 12:00	06/01/20 03:29	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1484936	1	05/30/20 09:57	05/31/20 14:05	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1484818	1	05/30/20 09:57	05/31/20 00:36	ADM	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1484968	1	06/02/20 07:56	06/03/20 05:45	KME	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 05/21/20 13:00

L1223377

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	06/03/2020 22:18	WG1486307

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	103		9.50	20.7	1	06/01/2020 02:39	WG1487467

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	05/31/2020 13:16	WG1484936
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		05/31/2020 13:16	WG1484936

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000482	0.00103	1	05/30/2020 23:57	WG1484818
Toluene	U		0.00134	0.00517	1	05/30/2020 23:57	WG1484818
Ethylbenzene	U		0.000761	0.00258	1	05/30/2020 23:57	WG1484818
Total Xylenes	U		0.000909	0.00671	1	05/30/2020 23:57	WG1484818
(S) Toluene-d8	112			75.0-131		05/30/2020 23:57	WG1484818
(S) 4-Bromofluorobenzene	103			67.0-138		05/30/2020 23:57	WG1484818
(S) 1,2-Dichloroethane-d4	89.3			70.0-130		05/30/2020 23:57	WG1484818

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	7.71		1.66	4.13	1	06/05/2020 15:12	WG1484968
C28-C40 Oil Range	18.8	<u>B</u>	0.283	4.13	1	06/05/2020 15:12	WG1484968
(S) o-Terphenyl	103			18.0-148		06/05/2020 15:12	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.5		1	06/03/2020 22:18	WG1486307

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	306		9.74	21.2	1	06/01/2020 03:04	WG1487467

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	05/31/2020 13:40	WG1484936
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		05/31/2020 13:40	WG1484936

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000494	0.00106	1	05/31/2020 00:16	WG1484818
Toluene	U		0.00138	0.00529	1	05/31/2020 00:16	WG1484818
Ethylbenzene	U		0.000780	0.00265	1	05/31/2020 00:16	WG1484818
Total Xylenes	U		0.000931	0.00688	1	05/31/2020 00:16	WG1484818
(S) Toluene-d8	113			75.0-131		05/31/2020 00:16	WG1484818
(S) 4-Bromofluorobenzene	104			67.0-138		05/31/2020 00:16	WG1484818
(S) 1,2-Dichloroethane-d4	87.1			70.0-130		05/31/2020 00:16	WG1484818

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	23.1		1.70	4.23	1	06/05/2020 15:39	WG1484968
C28-C40 Oil Range	41.5		0.290	4.23	1	06/05/2020 15:39	WG1484968
(S) o-Terphenyl	94.1			18.0-148		06/05/2020 15:39	WG1484968

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.7		1	06/03/2020 22:18	WG1486307

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	3720		99.2	216	10	06/01/2020 03:29	WG1487467

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0234	0.108	1	05/31/2020 14:05	WG1484936
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		05/31/2020 14:05	WG1484936

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000504	0.00108	1	05/31/2020 00:36	WG1484818
Toluene	U		0.00140	0.00539	1	05/31/2020 00:36	WG1484818
Ethylbenzene	U		0.000795	0.00270	1	05/31/2020 00:36	WG1484818
Total Xylenes	U		0.000949	0.00701	1	05/31/2020 00:36	WG1484818
(S) Toluene-d8	112			75.0-131		05/31/2020 00:36	WG1484818
(S) 4-Bromofluorobenzene	105			67.0-138		05/31/2020 00:36	WG1484818
(S) 1,2-Dichloroethane-d4	89.3			70.0-130		05/31/2020 00:36	WG1484818

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.74	4.32	1	06/03/2020 05:45	WG1484968
C28-C40 Oil Range	0.782	B J	0.296	4.32	1	06/03/2020 05:45	WG1484968
(S) o-Terphenyl	63.4			18.0-148		06/03/2020 05:45	WG1484968

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Method Blank (MB)

(MB) R3535059-1 06/03/20 22:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

L1223377-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1223377-03 06/03/20 22:18 • (DUP) R3535059-3 06/03/20 22:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	92.7	92.5	1	0.259		10

Laboratory Control Sample (LCS)

(LCS) R3535059-2 06/03/20 22:18

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 300.0

[L1223377-01,02,03](#)

Method Blank (MB)

(MB) R3535239-1 05/31/20 15:12

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1223377-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1223377-03 06/01/20 03:29 • (DUP) R3535239-3 06/01/20 03:54

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	3720	3670	10	1.26		20

Laboratory Control Sample (LCS)

(LCS) R3535239-2 05/31/20 15:36

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	204	102	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1223377-01,02,03](#)

Method Blank (MB)

(MB) R3534673-2 05/31/20 12:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.6			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3534673-1 05/31/20 11:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	6.78	123	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534673-3 05/31/20 22:43 • (MSD) R3534673-4 05/31/20 23:07

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	102		72.7	78.8	71.3	77.3	25	10.0-151			8.05	28
(S) a,a,a-Trifluorotoluene(FID)					104	105		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

L1223377-01,02,03

Method Blank (MB)

(MB) R3535126-2 05/30/20 20:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	109			75.0-131
(S) 4-Bromofluorobenzene	105			67.0-138
(S) 1,2-Dichloroethane-d4	92.8			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3535126-1 05/30/20 19:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.0998	79.8	70.0-123	
Ethylbenzene	0.125	0.123	98.4	74.0-126	
Toluene	0.125	0.110	88.0	75.0-121	
Xylenes, Total	0.375	0.365	97.3	72.0-127	
(S) Toluene-d8			108	75.0-131	
(S) 4-Bromofluorobenzene			109	67.0-138	
(S) 1,2-Dichloroethane-d4			100	70.0-130	

L1223377-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223377-01 05/30/20 23:57 • (MS) R3535126-3 05/31/20 04:06 • (MSD) R3535126-4 05/31/20 04:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.129	U	0.120	0.116	92.8	89.6	1	10.0-149			3.51	37
Ethylbenzene	0.129	U	0.151	0.145	117	112	1	10.0-160			4.20	38
Toluene	0.129	U	0.139	0.132	108	102	1	10.0-156			5.32	38
Xylenes, Total	0.387	U	0.433	0.415	112	107	1	10.0-160			4.14	38
(S) Toluene-d8					112	109		75.0-131				
(S) 4-Bromofluorobenzene					101	104		67.0-138				
(S) 1,2-Dichloroethane-d4					87.4	92.5		70.0-130				

Semi-Volatile Organic Compounds (GC) by Method 8015 L1223377-01,02,03

Method Blank (MB)

(MB) R3534522-1 06/03/20 04:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	2.60	J	0.274	4.00
(S) o-Terphenyl	68.2			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3534522-2 06/03/20 04:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.6	69.2	50.0-150	
(S) o-Terphenyl			59.0	18.0-148	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534522-3 06/03/20 19:44 • (MSD) R3534522-4 06/03/20 20:00

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.4		165	146	151	113	10	50.0-150	J5		12.2	20
(S) o-Terphenyl					130	123		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7G

8Al

9Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

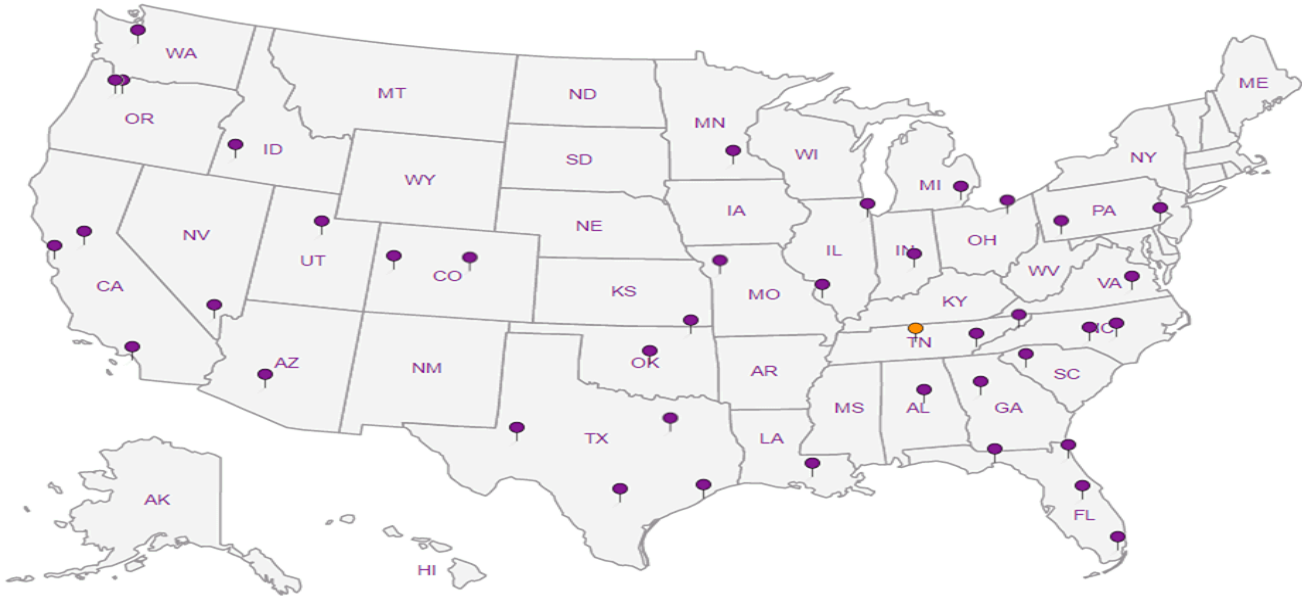
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.




ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

1790 3030 2914

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:	Captain	1223377
Cooler Received/Opened On:	5 / 29 / 20	Temperature: Amb
Received By:	Lakeacher Webster	
Signature:		
Receipt Check List	NP	Yes No
COC Seal Present / Intact?		/
COC Signed / Accurate?		/
Bottles arrive intact?		/
Correct bottles used?		/
Sufficient volume sent?		/
If Applicable		
VOA Zero headspace?		
Preservation Correct / Checked?		



ANALYTICAL REPORT

June 10, 2020

ConocoPhillips - Tetra Tech

Sample Delivery Group: L1223380
Samples Received: 05/29/2020
Project Number: 212C-MD-01576
Description: EVGSAU 3366-029

Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701

Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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BH-20-2S (4-5) L1223380-03	8	⁵ Sr
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BH-20-2S (0-1) L1223380-01 Solid

Collected by
Joe Tyler

Collected date/time
05/21/20 13:30

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	20	06/04/20 21:20	06/05/20 03:58	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:49	06/01/20 17:59	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485369	1	05/30/20 10:49	06/01/20 15:37	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1485512	5	06/02/20 12:46	06/03/20 18:03	FM	Mt. Juliet, TN

1

Cp

2

Tc

3

Ss

4

Cn

BH-20-2S (2-3) L1223380-02 Solid

Collected by
Joe Tyler

Collected date/time
05/21/20 13:35

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	10	06/04/20 21:20	06/05/20 04:13	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:49	06/01/20 18:48	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485369	1	05/30/20 10:49	06/01/20 15:57	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1485512	1	06/02/20 12:46	06/02/20 20:22	KME	Mt. Juliet, TN

5

Sr

6

Qc

7

Gl

8

Al

BH-20-2S (4-5) L1223380-03 Solid

Collected by
Joe Tyler

Collected date/time
05/21/20 13:40

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 04:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:49	06/01/20 19:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485369	1	05/30/20 10:49	06/01/20 16:16	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1485512	1	06/02/20 12:46	06/02/20 20:35	KME	Mt. Juliet, TN

9

Sc

BH-20-2S (6-7) L1223380-04 Solid

Collected by
Joe Tyler

Collected date/time
05/21/20 13:50

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	10	06/04/20 21:20	06/05/20 04:42	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:49	06/01/20 19:29	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485369	1	05/30/20 10:49	06/01/20 16:35	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1488579	1	06/03/20 07:23	06/09/20 12:06	JN	Mt. Juliet, TN

BH-20-2S (9-10) L1223380-05 Solid

Collected by
Joe Tyler

Collected date/time
05/21/20 14:00

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 04:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:49	06/01/20 19:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485369	1	05/30/20 10:49	06/01/20 16:54	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1488579	1	06/03/20 07:23	06/09/20 12:20	JN	Mt. Juliet, TN

BH-20-3S (0-1) L1223380-06 Solid

Collected by Joe Tyler
Collected date/time 05/21/20 14:30
Received date/time 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 05:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:49	06/01/20 20:28	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485369	1	05/30/20 10:49	06/01/20 17:13	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1488579	1	06/03/20 07:23	06/09/20 13:00	JN	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

BH-20-3S (2-3) L1223380-07 Solid

Collected by Joe Tyler
Collected date/time 05/21/20 14:35
Received date/time 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 05:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:49	06/01/20 21:02	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485369	1	05/30/20 10:49	06/01/20 17:32	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1488579	1	06/03/20 07:23	06/09/20 12:47	JN	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al


9Sc

BH-20-3S (4-5) L1223380-08 Solid

Collected by Joe Tyler
Collected date/time 05/21/20 14:40
Received date/time 05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486309	1	06/03/20 21:45	06/03/20 21:57	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1485960	1	06/04/20 21:20	06/05/20 06:12	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485339	1	05/30/20 10:49	06/01/20 21:22	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1485369	1	05/30/20 10:49	06/01/20 17:51	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1488579	1	06/03/20 07:23	06/09/20 12:33	JN	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Qc
- ⁷ Gl
- ⁸ Al
- ⁹ Sc

Collected date/time: 05/21/20 13:30

L1223380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	06/03/2020 21:57	WG1486309

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	8480		201	436	20	06/05/2020 03:58	WG1485960

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0237	0.109	1	06/01/2020 17:59	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	90.5			77.0-120		06/01/2020 17:59	WG1485339

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000509	0.00109	1	06/01/2020 15:37	WG1485369
Toluene	0.00180	J	0.00142	0.00545	1	06/01/2020 15:37	WG1485369
Ethylbenzene	U		0.000804	0.00273	1	06/01/2020 15:37	WG1485369
Total Xylenes	U		0.000960	0.00709	1	06/01/2020 15:37	WG1485369
(S) Toluene-d8	108			75.0-131		06/01/2020 15:37	WG1485369
(S) 4-Bromofluorobenzene	105			67.0-138		06/01/2020 15:37	WG1485369
(S) 1,2-Dichloroethane-d4	92.1			70.0-130		06/01/2020 15:37	WG1485369

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	323		8.78	21.8	5	06/03/2020 18:03	WG1485512
C28-C40 Oil Range	422		1.49	21.8	5	06/03/2020 18:03	WG1485512
(S) o-Terphenyl	62.6			18.0-148		06/03/2020 18:03	WG1485512

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.9		1	06/03/2020 21:57	WG1486309

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	2510		96.0	209	10	06/05/2020 04:13	WG1485960

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	06/01/2020 18:48	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		06/01/2020 18:48	WG1485339

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000487	0.00104	1	06/01/2020 15:57	WG1485369
Toluene	U		0.00136	0.00522	1	06/01/2020 15:57	WG1485369
Ethylbenzene	U		0.000769	0.00261	1	06/01/2020 15:57	WG1485369
Total Xylenes	U		0.000918	0.00678	1	06/01/2020 15:57	WG1485369
(S) Toluene-d8	110			75.0-131		06/01/2020 15:57	WG1485369
(S) 4-Bromofluorobenzene	107			67.0-138		06/01/2020 15:57	WG1485369
(S) 1,2-Dichloroethane-d4	90.8			70.0-130		06/01/2020 15:57	WG1485369

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.68	4.17	1	06/02/2020 20:22	WG1485512
C28-C40 Oil Range	1.93	B J	0.286	4.17	1	06/02/2020 20:22	WG1485512
(S) o-Terphenyl	65.7			18.0-148		06/02/2020 20:22	WG1485512

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Collected date/time: 05/21/20 13:40

L1223380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.0		1	06/03/2020 21:57	WG1486309

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	227		9.49	20.6	1	06/05/2020 04:27	WG1485960

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	06/01/2020 19:08	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		06/01/2020 19:08	WG1485339

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000482	0.00103	1	06/01/2020 16:16	WG1485369
Toluene	U		0.00134	0.00516	1	06/01/2020 16:16	WG1485369
Ethylbenzene	U		0.000760	0.00258	1	06/01/2020 16:16	WG1485369
Total Xylenes	U		0.000907	0.00670	1	06/01/2020 16:16	WG1485369
(S) Toluene-d8	110			75.0-131		06/01/2020 16:16	WG1485369
(S) 4-Bromofluorobenzene	106			67.0-138		06/01/2020 16:16	WG1485369
(S) 1,2-Dichloroethane-d4	89.5			70.0-130		06/01/2020 16:16	WG1485369

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.12	1	06/02/2020 20:35	WG1485512
C28-C40 Oil Range	1.55	B J	0.283	4.12	1	06/02/2020 20:35	WG1485512
(S) o-Terphenyl	73.7			18.0-148		06/02/2020 20:35	WG1485512

Collected date/time: 05/21/20 13:50

L1223380

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.0		1	06/03/2020 21:57	WG1486309

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	3240		98.9	215	10	06/05/2020 04:42	WG1485960

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0233	0.108	1	06/01/2020 19:29	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		06/01/2020 19:29	WG1485339

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000502	0.00108	1	06/01/2020 16:35	WG1485369
Toluene	U		0.00140	0.00538	1	06/01/2020 16:35	WG1485369
Ethylbenzene	U		0.000793	0.00269	1	06/01/2020 16:35	WG1485369
Total Xylenes	U		0.000946	0.00699	1	06/01/2020 16:35	WG1485369
(S) Toluene-d8	110			75.0-131		06/01/2020 16:35	WG1485369
(S) 4-Bromofluorobenzene	106			67.0-138		06/01/2020 16:35	WG1485369
(S) 1,2-Dichloroethane-d4	90.4			70.0-130		06/01/2020 16:35	WG1485369

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.73	4.30	1	06/09/2020 12:06	WG1488579
C28-C40 Oil Range	U		0.295	4.30	1	06/09/2020 12:06	WG1488579
(S) o-Terphenyl	82.5			18.0-148		06/09/2020 12:06	WG1488579

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	99.6		1	06/03/2020 21:57	WG1486309

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	327		9.24	20.1	1	06/05/2020 04:57	WG1485960

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0218	0.100	1	06/01/2020 19:50	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		06/01/2020 19:50	WG1485339

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000469	0.00100	1	06/01/2020 16:54	WG1485369
Toluene	U		0.00131	0.00502	1	06/01/2020 16:54	WG1485369
Ethylbenzene	U		0.000740	0.00251	1	06/01/2020 16:54	WG1485369
Total Xylenes	U		0.000884	0.00653	1	06/01/2020 16:54	WG1485369
(S) Toluene-d8	110			75.0-131		06/01/2020 16:54	WG1485369
(S) 4-Bromofluorobenzene	106			67.0-138		06/01/2020 16:54	WG1485369
(S) 1,2-Dichloroethane-d4	91.4			70.0-130		06/01/2020 16:54	WG1485369

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.19	J	1.62	4.02	1	06/09/2020 12:20	WG1488579
C28-C40 Oil Range	1.26	J	0.275	4.02	1	06/09/2020 12:20	WG1488579
(S) o-Terphenyl	89.6			18.0-148		06/09/2020 12:20	WG1488579

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.4		1	06/03/2020 21:57	WG1486309

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	114		9.35	20.3	1	06/05/2020 05:12	WG1485960

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0220	0.102	1	06/01/2020 20:28	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		06/01/2020 20:28	WG1485339

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000474	0.00102	1	06/01/2020 17:13	WG1485369
Toluene	U		0.00132	0.00508	1	06/01/2020 17:13	WG1485369
Ethylbenzene	U		0.000749	0.00254	1	06/01/2020 17:13	WG1485369
Total Xylenes	U		0.000894	0.00660	1	06/01/2020 17:13	WG1485369
(S) Toluene-d8	110			75.0-131		06/01/2020 17:13	WG1485369
(S) 4-Bromofluorobenzene	104			67.0-138		06/01/2020 17:13	WG1485369
(S) 1,2-Dichloroethane-d4	92.0			70.0-130		06/01/2020 17:13	WG1485369

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.25		1.64	4.06	1	06/09/2020 13:00	WG1488579
C28-C40 Oil Range	25.7		0.278	4.06	1	06/09/2020 13:00	WG1488579
(S) o-Terphenyl	97.0			18.0-148		06/09/2020 13:00	WG1488579

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.1		1	06/03/2020 21:57	WG1486309

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	66.5		9.37	20.4	1	06/05/2020 05:27	WG1485960

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0221	0.102	1	06/01/2020 21:02	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		06/01/2020 21:02	WG1485339

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000476	0.00102	1	06/01/2020 17:32	WG1485369
Toluene	U		0.00132	0.00509	1	06/01/2020 17:32	WG1485369
Ethylbenzene	U		0.000751	0.00255	1	06/01/2020 17:32	WG1485369
Total Xylenes	U		0.000897	0.00662	1	06/01/2020 17:32	WG1485369
(S) Toluene-d8	109			75.0-131		06/01/2020 17:32	WG1485369
(S) 4-Bromofluorobenzene	104			67.0-138		06/01/2020 17:32	WG1485369
(S) 1,2-Dichloroethane-d4	91.7			70.0-130		06/01/2020 17:32	WG1485369

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5.19		1.64	4.08	1	06/09/2020 12:47	WG1488579
C28-C40 Oil Range	8.32		0.279	4.08	1	06/09/2020 12:47	WG1488579
(S) o-Terphenyl	97.1			18.0-148		06/09/2020 12:47	WG1488579

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.6		1	06/03/2020 21:57	WG1486309

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	24.0		9.43	20.5	1	06/05/2020 06:12	WG1485960

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0222	0.102	1	06/01/2020 21:22	WG1485339
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		06/01/2020 21:22	WG1485339

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000479	0.00102	1	06/01/2020 17:51	WG1485369
Toluene	U		0.00133	0.00512	1	06/01/2020 17:51	WG1485369
Ethylbenzene	U		0.000755	0.00256	1	06/01/2020 17:51	WG1485369
Total Xylenes	U		0.000902	0.00666	1	06/01/2020 17:51	WG1485369
(S) Toluene-d8	111			75.0-131		06/01/2020 17:51	WG1485369
(S) 4-Bromofluorobenzene	104			67.0-138		06/01/2020 17:51	WG1485369
(S) 1,2-Dichloroethane-d4	89.7			70.0-130		06/01/2020 17:51	WG1485369

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.65	4.10	1	06/09/2020 12:33	WG1488579
C28-C40 Oil Range	U		0.281	4.10	1	06/09/2020 12:33	WG1488579
(S) o-Terphenyl	100			18.0-148		06/09/2020 12:33	WG1488579

Method Blank (MB)

(MB) R3535057-1 06/03/20 21:57

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1223380-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1223380-04 06/03/20 21:57 • (DUP) R3535057-3 06/03/20 21:57

	Original Result	DUP Result	Dilution	DUP RPD	DUP RPD Limits
Analyte	%	%		%	%
Total Solids	93.0	93.9	1	0.947	10

Laboratory Control Sample (LCS)

(LCS) R3535057-2 06/03/20 21:57

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Wet Chemistry by Method 300.0

[L1223380-01,02,03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R3535396-1 06/04/20 23:59

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1223379-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1223379-04 06/05/20 01:28 • (DUP) R3535396-3 06/05/20 01:43

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	175	174	1	0.587		20

L1223380-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1223380-08 06/05/20 06:12 • (DUP) R3535396-6 06/05/20 06:27

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	24.0	25.2	1	4.90		20

Laboratory Control Sample (LCS)

(LCS) R3535396-2 06/05/20 00:14

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	206	103	90.0-110	

L1223379-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223379-08 06/05/20 03:13 • (MS) R3535396-4 06/05/20 03:28 • (MSD) R3535396-5 06/05/20 03:43

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	523	278	817	804	103	101	1	80.0-120			1.66	20

Volatile Organic Compounds (GC) by Method 8015D/GRO [L1223380-01,02,03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R3534748-2 06/01/20 12:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3534748-1 06/01/20 11:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.46	81.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			95.4	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC/MS) by Method 8260B [L1223380-01,02,03,04,05,06,07,08](#)

Method Blank (MB)

(MB) R3534492-2 06/01/20 11:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	110			75.0-131
(S) 4-Bromofluorobenzene	105			67.0-138
(S) 1,2-Dichloroethane-d4	88.2			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3534492-1 06/01/20 10:11

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.108	86.4	70.0-123	
Ethylbenzene	0.125	0.133	106	74.0-126	
Toluene	0.125	0.121	96.8	75.0-121	
Xylenes, Total	0.375	0.394	105	72.0-127	
(S) Toluene-d8			109	75.0-131	
(S) 4-Bromofluorobenzene			107	67.0-138	
(S) 1,2-Dichloroethane-d4			96.4	70.0-130	

Method Blank (MB)

(MB) R3534383-1 06/02/20 19:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	0.428	J	0.274	4.00
(S) o-Terphenyl	64.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3534383-2 06/02/20 19:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.6	73.2	50.0-150	
(S) o-Terphenyl			84.1	18.0-148	

L1223380-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223380-01 06/03/20 18:03 • (MS) R3534744-1 06/03/20 18:16 • (MSD) R3534744-2 06/03/20 18:30

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	53.7	323	387	387	120	120	5	50.0-150			0.000	20
(S) o-Terphenyl					56.9	62.2		18.0-148				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Semi-Volatile Organic Compounds (GC) by Method 8015 [L1223380-04,05,06,07,08](#)

Method Blank (MB)

(MB) R3536640-1 06/09/20 11:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	95.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3536640-2 06/09/20 11:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	59.6	119	50.0-150	
(S) o-Terphenyl			97.4	18.0-148	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gi
8	Al
9	Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN2000002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

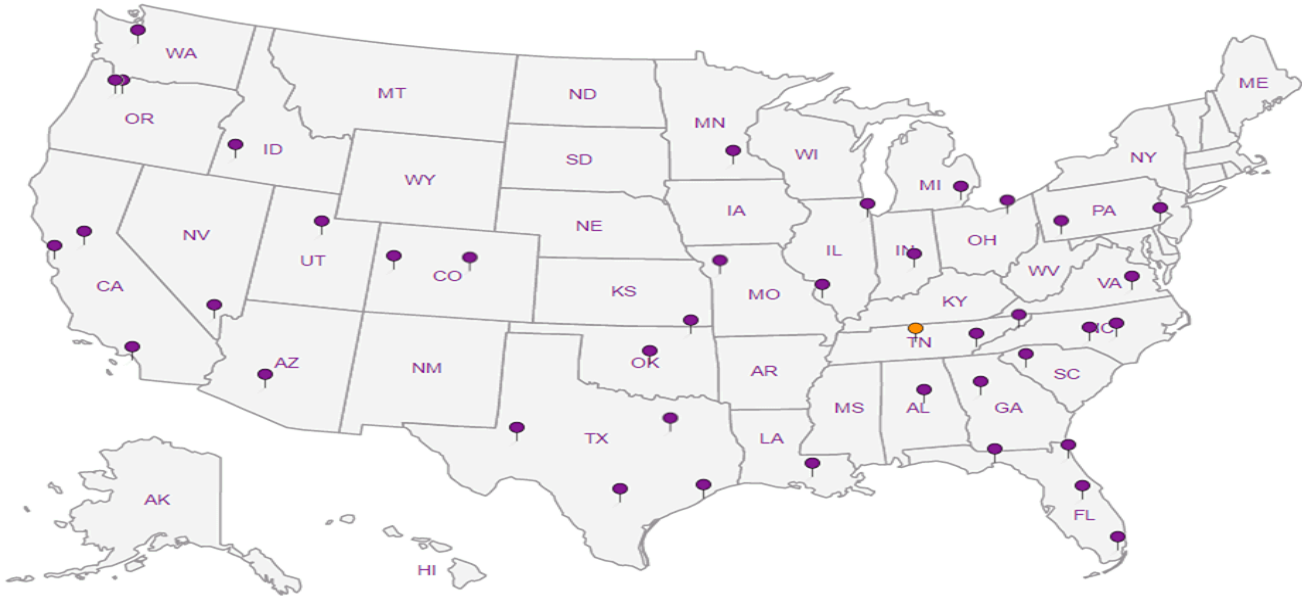
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ORIGINAL COPY
1790 3030 2916

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:	ColtetrA	122380	
Cooler Received/Opened On:	5 / 29 / 20	Temperature:	Amb
Received By:	Lakeacher Webster		
Signature:	<i>L. Webster</i>		
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?		/	
COC Signed / Accurate?		/	
Bottles arrive intact?		/	
Correct bottles used?		/	
Sufficient volume sent?		/	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

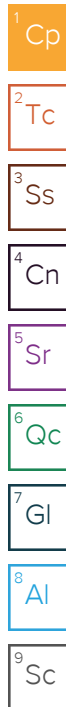


ANALYTICAL REPORT

June 10, 2020

ConocoPhillips - Tetra Tech

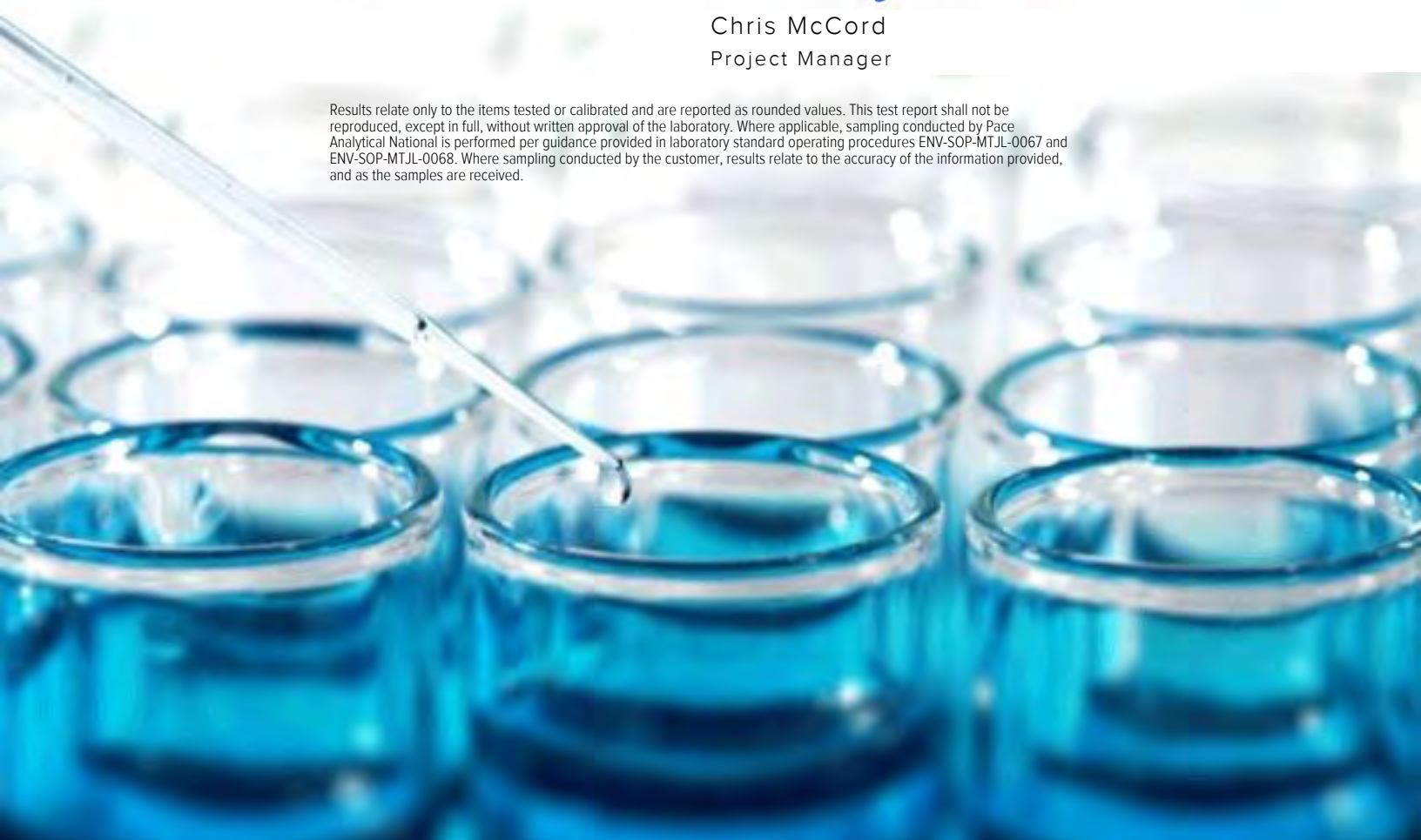
Sample Delivery Group: L1223523
Samples Received: 05/29/2020
Project Number: 212C-MD-01576
Description: EVGSAU 3366-029
Site: LEA COUNTY, NM
Report To: Christian Llull
901 West Wall
Suite 100
Midland, TX 79701



Entire Report Reviewed By:

Chris McCord
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

BH-20-1 (0-1) L1223523-01 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 14:00

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486415	1	06/04/20 14:11	06/04/20 14:19	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	1	06/03/20 09:34	06/03/20 17:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485898	1	06/02/20 08:39	06/03/20 09:18	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 00:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 23:47	KME	Mt. Juliet, TN

1

Cp

2

Tc

3

Ss

4

Cn

BH-20-1 (2-3) L1223523-02 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 14:05

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486415	1	06/04/20 14:11	06/04/20 14:19	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	5	06/03/20 09:34	06/03/20 18:02	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485898	1	06/02/20 08:39	06/03/20 09:42	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 00:46	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 23:21	KME	Mt. Juliet, TN

5

Sr

6

Qc

7

Gl

8

Al

BH-20-1 (4-5) L1223523-03 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 14:10

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486415	1	06/04/20 14:11	06/04/20 14:19	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	1	06/03/20 09:34	06/03/20 18:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1485898	1	06/02/20 08:39	06/03/20 10:06	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 01:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 20:42	KME	Mt. Juliet, TN

9

Sc

BH-20-1 (6-7) L1223523-04 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 14:15

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486415	1	06/04/20 14:11	06/04/20 14:19	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	5	06/03/20 09:34	06/03/20 18:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486356	1	06/02/20 08:39	06/03/20 16:01	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 01:26	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 20:56	KME	Mt. Juliet, TN

BH-20-1 (9-10) L1223523-05 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 14:20

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486419	1	06/04/20 18:06	06/04/20 18:21	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	1	06/03/20 09:34	06/03/20 18:50	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486356	1	06/02/20 08:39	06/03/20 16:25	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486515	1	06/02/20 08:39	06/03/20 15:21	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 21:09	KME	Mt. Juliet, TN

BH-20-1 (14-15) L1223523-06 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 14:30

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486419	1	06/04/20 18:06	06/04/20 18:21	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	1	06/03/20 09:34	06/03/20 18:59	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486356	1	06/02/20 08:39	06/03/20 16:49	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 02:07	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 21:22	KME	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

BH-20-2 (0-1) L1223523-07 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 14:50

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486419	1	06/04/20 18:06	06/04/20 18:21	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486008	5	06/03/20 09:34	06/03/20 19:18	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486356	1	06/02/20 08:39	06/03/20 17:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 02:28	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	5	06/03/20 05:20	06/04/20 00:26	KME	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

BH-20-2 (2-3) L1223523-08 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 15:00

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486419	1	06/04/20 18:06	06/04/20 18:21	KBC	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 02:24	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:39	06/03/20 09:55	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 02:48	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 23:34	KME	Mt. Juliet, TN

9Sc

BH-20-2 (4-5) L1223523-09 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 15:05

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 02:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:39	06/03/20 10:18	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 03:08	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 23:08	KME	Mt. Juliet, TN

BH-20-2 (6-7) L1223523-10 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 15:10

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 03:14	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:39	06/03/20 10:40	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 03:29	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 22:54	KME	Mt. Juliet, TN

BH-20-2 (9-10) L1223523-11 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 15:20

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 03:31	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:39	06/03/20 11:02	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 03:49	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 21:35	KME	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

BH-20-2 (14-15) L1223523-12 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 15:30

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 03:48	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:39	06/03/20 11:25	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 04:09	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 21:49	KME	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

BH-20-2 (19-20) L1223523-13 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 15:40

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	10	06/02/20 22:30	06/03/20 04:05	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486589	1	06/02/20 08:39	06/03/20 16:06	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:39	06/03/20 04:30	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 22:02	KME	Mt. Juliet, TN

9Sc

BH-20-2 (24-25) L1223523-14 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 15:50

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	5	06/02/20 22:30	06/03/20 05:47	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:49	06/03/20 12:10	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 04:50	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 22:15	KME	Mt. Juliet, TN

BH-20-2 (29-30) L1223523-15 Solid

Collected by
Joe Tyler

Collected date/time
05/20/20 16:10

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	10	06/02/20 22:30	06/03/20 06:03	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:49	06/03/20 12:32	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 05:10	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 22:28	KME	Mt. Juliet, TN

BH-20-2 (39-40) L1223523-16 Solid

				Collected by Joe Tyler	Collected date/time 05/20/20 16:30	Received date/time 05/29/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 06:20	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486242	1	06/02/20 08:49	06/03/20 12:54	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 05:31	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486068	1	06/03/20 05:20	06/03/20 22:41	KME	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

BH-20-3 (0-1) L1223523-17 Solid

				Collected by Joe Tyler	Collected date/time 05/21/20 10:00	Received date/time 05/29/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 06:37	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 09:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 05:51	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 02:30	JN	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

BH-20-3 (2-3) L1223523-18 Solid

				Collected by Joe Tyler	Collected date/time 05/21/20 10:05	Received date/time 05/29/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486420	1	06/04/20 17:43	06/04/20 18:01	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 06:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 10:21	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 06:11	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 22:24	DMG	Mt. Juliet, TN

9Sc

BH-20-3 (4-5) L1223523-19 Solid

				Collected by Joe Tyler	Collected date/time 05/21/20 10:10	Received date/time 05/29/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 07:11	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 10:45	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 06:32	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 00:31	JN	Mt. Juliet, TN

BH-20-4 (0-1) L1223523-20 Solid

				Collected by Joe Tyler	Collected date/time 05/21/20 10:40	Received date/time 05/29/20 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 07:28	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 11:09	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486129	1	06/02/20 08:49	06/03/20 06:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 02:56	JN	Mt. Juliet, TN

BH-20-4 (2-3) L1223523-21 Solid

Collected by
Joe Tyler

Collected date/time
05/21/20 10:45

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 07:45	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 11:33	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486258	1	06/02/20 08:49	06/03/20 09:37	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 02:43	JN	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

BH-20-4 (4-5) L1223523-22 Solid

Collected by
Joe Tyler

Collected date/time
05/21/20 10:50

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 08:36	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486611	1	06/02/20 08:49	06/04/20 11:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486258	1	06/02/20 08:49	06/03/20 09:56	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 00:44	JN	Mt. Juliet, TN

5Sr

6Qc

7Gl

8Al

BH-20-5 (0-1) L1223523-23 Solid

Collected by
Joe Tyler

Collected date/time
05/21/20 11:30

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 08:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486617	1	06/02/20 08:49	06/04/20 01:24	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486258	1	06/02/20 08:49	06/03/20 10:15	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	10	06/03/20 19:01	06/08/20 03:36	JN	Mt. Juliet, TN

9Sc

BH-20-5 (2-3) L1223523-24 Solid

Collected by
Joe Tyler

Collected date/time
05/21/20 11:35

Received date/time
05/29/20 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 09:10	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486617	1	06/02/20 08:49	06/04/20 01:44	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486294	1	06/02/20 08:49	06/03/20 10:13	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 03:10	JN	Mt. Juliet, TN

Collected by
Joe Tyler

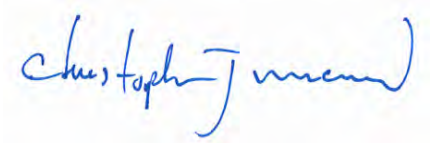
Collected date/time
05/21/20 11:40

Received date/time
05/29/20 09:00

BH-20-5 (4-5) L1223523-25 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1486421	1	06/04/20 17:24	06/04/20 17:36	KDW	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1486010	1	06/02/20 22:30	06/03/20 09:26	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1486617	1	06/02/20 08:49	06/04/20 02:05	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1486294	1	06/02/20 08:49	06/03/20 10:33	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1486508	1	06/03/20 19:01	06/08/20 00:57	JN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1488541	1	06/09/20 04:05	06/09/20 13:28	JN	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chris McCord
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.6		1	06/04/2020 14:19	WG1486415

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	232		9.83	21.4	1	06/03/2020 17:53	WG1486008

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0232	0.107	1	06/03/2020 09:18	WG1485898
(S) a,a,a-Trifluorotoluene(FID)	96.9			77.0-120		06/03/2020 09:18	WG1485898

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000499	0.00107	1	06/03/2020 00:25	WG1486129
Toluene	U		0.00139	0.00534	1	06/03/2020 00:25	WG1486129
Ethylbenzene	U		0.000787	0.00267	1	06/03/2020 00:25	WG1486129
Total Xylenes	U		0.000940	0.00694	1	06/03/2020 00:25	WG1486129
(S) Toluene-d8	113			75.0-131		06/03/2020 00:25	WG1486129
(S) 4-Bromofluorobenzene	87.7			67.0-138		06/03/2020 00:25	WG1486129
(S) 1,2-Dichloroethane-d4	110			70.0-130		06/03/2020 00:25	WG1486129

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	25.4		1.72	4.27	1	06/03/2020 23:47	WG1486068
C28-C40 Oil Range	69.9		0.293	4.27	1	06/03/2020 23:47	WG1486068
(S) o-Terphenyl	77.8			18.0-148		06/03/2020 23:47	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.4		1	06/04/2020 14:19	WG1486415

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1170		50.9	111	5	06/03/2020 18:02	WG1486008

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0240	0.111	1	06/03/2020 09:42	WG1485898
(S) a,a,a-Trifluorotoluene(FID)	99.3			77.0-120		06/03/2020 09:42	WG1485898

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000517	0.00111	1	06/03/2020 00:46	WG1486129
Toluene	U		0.00144	0.00553	1	06/03/2020 00:46	WG1486129
Ethylbenzene	U		0.000815	0.00277	1	06/03/2020 00:46	WG1486129
Total Xylenes	U		0.000974	0.00719	1	06/03/2020 00:46	WG1486129
(S) Toluene-d8	115			75.0-131		06/03/2020 00:46	WG1486129
(S) 4-Bromofluorobenzene	98.6			67.0-138		06/03/2020 00:46	WG1486129
(S) 1,2-Dichloroethane-d4	109			70.0-130		06/03/2020 00:46	WG1486129

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5.17		1.78	4.43	1	06/03/2020 23:21	WG1486068
C28-C40 Oil Range	12.6		0.303	4.43	1	06/03/2020 23:21	WG1486068
(S) o-Terphenyl	71.0			18.0-148		06/03/2020 23:21	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	06/04/2020 14:19	WG1486415

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	574		9.50	20.7	1	06/03/2020 18:31	WG1486008

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	06/03/2020 10:06	WG1485898
(S) a,a,a-Trifluorotoluene(FID)	96.8			77.0-120		06/03/2020 10:06	WG1485898

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000482	0.00103	1	06/03/2020 01:06	WG1486129
Toluene	U		0.00134	0.00516	1	06/03/2020 01:06	WG1486129
Ethylbenzene	U		0.000761	0.00258	1	06/03/2020 01:06	WG1486129
Total Xylenes	U		0.000909	0.00671	1	06/03/2020 01:06	WG1486129
(S) Toluene-d8	120			75.0-131		06/03/2020 01:06	WG1486129
(S) 4-Bromofluorobenzene	103			67.0-138		06/03/2020 01:06	WG1486129
(S) 1,2-Dichloroethane-d4	111			70.0-130		06/03/2020 01:06	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.13	1	06/03/2020 20:42	WG1486068
C28-C40 Oil Range	2.60	J	0.283	4.13	1	06/03/2020 20:42	WG1486068
(S) o-Terphenyl	86.8			18.0-148		06/03/2020 20:42	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	06/04/2020 14:19	WG1486415

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	1870		50.3	109	5	06/03/2020 18:40	WG1486008

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0237	0.109	1	06/03/2020 16:01	WG1486356
(S) a,a,a-Trifluorotoluene(FID)	99.9			77.0-120		06/03/2020 16:01	WG1486356

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000510	0.00109	1	06/03/2020 01:26	WG1486129
Toluene	U		0.00142	0.00546	1	06/03/2020 01:26	WG1486129
Ethylbenzene	U		0.000806	0.00273	1	06/03/2020 01:26	WG1486129
Total Xylenes	U		0.000962	0.00710	1	06/03/2020 01:26	WG1486129
(S) Toluene-d8	116			75.0-131		06/03/2020 01:26	WG1486129
(S) 4-Bromofluorobenzene	98.7			67.0-138		06/03/2020 01:26	WG1486129
(S) 1,2-Dichloroethane-d4	110			70.0-130		06/03/2020 01:26	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.76	4.37	1	06/03/2020 20:56	WG1486068
C28-C40 Oil Range	0.632	J	0.299	4.37	1	06/03/2020 20:56	WG1486068
(S) o-Terphenyl	65.0			18.0-148		06/03/2020 20:56	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.9		1	06/04/2020 18:21	WG1486419

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	375		9.70	21.1	1	06/03/2020 18:50	WG1486008

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0229	0.105	1	06/03/2020 16:25	WG1486356
(S) a,a,a-Trifluorotoluene(FID)	97.5			77.0-120		06/03/2020 16:25	WG1486356

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000492	0.00105	1	06/03/2020 15:21	WG1486515
Toluene	U		0.00137	0.00527	1	06/03/2020 15:21	WG1486515
Ethylbenzene	U		0.000777	0.00264	1	06/03/2020 15:21	WG1486515
Total Xylenes	0.00111	J	0.000928	0.00685	1	06/03/2020 15:21	WG1486515
(S) Toluene-d8	108			75.0-131		06/03/2020 15:21	WG1486515
(S) 4-Bromofluorobenzene	118			67.0-138		06/03/2020 15:21	WG1486515
(S) 1,2-Dichloroethane-d4	77.3			70.0-130		06/03/2020 15:21	WG1486515

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.70	4.22	1	06/03/2020 21:09	WG1486068
C28-C40 Oil Range	0.958	J	0.289	4.22	1	06/03/2020 21:09	WG1486068
(S) o-Terphenyl	62.2			18.0-148		06/03/2020 21:09	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	06/04/2020 18:21	WG1486419

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	124		9.50	20.6	1	06/03/2020 18:59	WG1486008

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	06/03/2020 16:49	WG1486356
(S) a,a,a-Trifluorotoluene(FID)	98.4			77.0-120		06/03/2020 16:49	WG1486356

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000482	0.00103	1	06/03/2020 02:07	WG1486129
Toluene	U		0.00134	0.00516	1	06/03/2020 02:07	WG1486129
Ethylbenzene	U		0.000761	0.00258	1	06/03/2020 02:07	WG1486129
Total Xylenes	U		0.000908	0.00671	1	06/03/2020 02:07	WG1486129
(S) Toluene-d8	116			75.0-131		06/03/2020 02:07	WG1486129
(S) 4-Bromofluorobenzene	97.8			67.0-138		06/03/2020 02:07	WG1486129
(S) 1,2-Dichloroethane-d4	110			70.0-130		06/03/2020 02:07	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.13	1	06/03/2020 21:22	WG1486068
C28-C40 Oil Range	U		0.283	4.13	1	06/03/2020 21:22	WG1486068
(S) o-Terphenyl	73.3			18.0-148		06/03/2020 21:22	WG1486068

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	93.1		1	06/04/2020 18:21	WG1486419

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	1290		49.4	107	5	06/03/2020 19:18	WG1486008

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0233	0.107	1	06/03/2020 17:12	WG1486356
(S) a,a,a-Trifluorotoluene(FID)	95.8			77.0-120		06/03/2020 17:12	WG1486356

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000502	0.00107	1	06/03/2020 02:28	WG1486129
Toluene	U		0.00140	0.00537	1	06/03/2020 02:28	WG1486129
Ethylbenzene	U		0.000792	0.00269	1	06/03/2020 02:28	WG1486129
Total Xylenes	U		0.000946	0.00698	1	06/03/2020 02:28	WG1486129
(S) Toluene-d8	114			75.0-131		06/03/2020 02:28	WG1486129
(S) 4-Bromofluorobenzene	98.7			67.0-138		06/03/2020 02:28	WG1486129
(S) 1,2-Dichloroethane-d4	110			70.0-130		06/03/2020 02:28	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	351		8.65	21.5	5	06/04/2020 00:26	WG1486068
C28-C40 Oil Range	750		1.47	21.5	5	06/04/2020 00:26	WG1486068
(S) o-Terphenyl	106			18.0-148		06/04/2020 00:26	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.3		1	06/04/2020 18:21	WG1486419

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1320		50.9	111	5	06/03/2020 02:24	WG1486010

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0623	B J	0.0240	0.111	1	06/03/2020 09:55	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120		06/03/2020 09:55	WG1486242

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000517	0.00111	1	06/03/2020 02:48	WG1486129
Toluene	U		0.00144	0.00554	1	06/03/2020 02:48	WG1486129
Ethylbenzene	U		0.000816	0.00277	1	06/03/2020 02:48	WG1486129
Total Xylenes	U		0.000974	0.00720	1	06/03/2020 02:48	WG1486129
(S) Toluene-d8	113			75.0-131		06/03/2020 02:48	WG1486129
(S) 4-Bromofluorobenzene	97.9			67.0-138		06/03/2020 02:48	WG1486129
(S) 1,2-Dichloroethane-d4	112			70.0-130		06/03/2020 02:48	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	30.5		1.78	4.43	1	06/03/2020 23:34	WG1486068
C28-C40 Oil Range	63.0		0.303	4.43	1	06/03/2020 23:34	WG1486068
(S) o-Terphenyl	52.4			18.0-148		06/03/2020 23:34	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.0		1	06/04/2020 18:01	WG1486420

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1160		47.4	103	5	06/03/2020 02:57	WG1486010

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0572	B J	0.0224	0.103	1	06/03/2020 10:18	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		06/03/2020 10:18	WG1486242

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000481	0.00103	1	06/03/2020 03:08	WG1486129
Toluene	U		0.00134	0.00515	1	06/03/2020 03:08	WG1486129
Ethylbenzene	U		0.000760	0.00258	1	06/03/2020 03:08	WG1486129
Total Xylenes	U		0.000907	0.00670	1	06/03/2020 03:08	WG1486129
(S) Toluene-d8	184	J1		75.0-131		06/03/2020 03:08	WG1486129
(S) 4-Bromofluorobenzene	99.0			67.0-138		06/03/2020 03:08	WG1486129
(S) 1,2-Dichloroethane-d4	109			70.0-130		06/03/2020 03:08	WG1486129

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.63		1.66	4.12	1	06/03/2020 23:08	WG1486068
C28-C40 Oil Range	16.9		0.282	4.12	1	06/03/2020 23:08	WG1486068
(S) o-Terphenyl	72.3			18.0-148		06/03/2020 23:08	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.7		1	06/04/2020 18:01	WG1486420

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	875		47.1	102	5	06/03/2020 03:14	WG1486010

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0487	B J	0.0222	0.102	1	06/03/2020 10:40	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120		06/03/2020 10:40	WG1486242

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000478	0.00102	1	06/03/2020 03:29	WG1486129
Toluene	U		0.00133	0.00512	1	06/03/2020 03:29	WG1486129
Ethylbenzene	U		0.000754	0.00256	1	06/03/2020 03:29	WG1486129
Total Xylenes	U		0.000901	0.00665	1	06/03/2020 03:29	WG1486129
(S) Toluene-d8	113			75.0-131		06/03/2020 03:29	WG1486129
(S) 4-Bromofluorobenzene	97.9			67.0-138		06/03/2020 03:29	WG1486129
(S) 1,2-Dichloroethane-d4	112			70.0-130		06/03/2020 03:29	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.07	J	1.65	4.09	1	06/03/2020 22:54	WG1486068
C28-C40 Oil Range	3.00	J	0.280	4.09	1	06/03/2020 22:54	WG1486068
(S) o-Terphenyl	67.4			18.0-148		06/03/2020 22:54	WG1486068

Collected date/time: 05/20/20 15:20

L1223523

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	99.2		1	06/04/2020 18:01	WG1486420

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	781		46.4	101	5	06/03/2020 03:31	WG1486010

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0540	B J	0.0219	0.101	1	06/03/2020 11:02	WG1486242
(S)	99.2			77.0-120		06/03/2020 11:02	WG1486242
a,a,a-Trifluorotoluene(FID)							

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000471	0.00101	1	06/03/2020 03:49	WG1486129
Toluene	U		0.00131	0.00504	1	06/03/2020 03:49	WG1486129
Ethylbenzene	U		0.000743	0.00252	1	06/03/2020 03:49	WG1486129
Total Xylenes	U		0.000887	0.00655	1	06/03/2020 03:49	WG1486129
(S) Toluene-d8	136	J1		75.0-131		06/03/2020 03:49	WG1486129
(S) 4-Bromofluorobenzene	72.0			67.0-138		06/03/2020 03:49	WG1486129
(S) 1,2-Dichloroethane-d4	110			70.0-130		06/03/2020 03:49	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	U		1.62	4.03	1	06/03/2020 21:35	WG1486068
C28-C40 Oil Range	0.975	J	0.276	4.03	1	06/03/2020 21:35	WG1486068
(S) o-Terphenyl	75.1			18.0-148		06/03/2020 21:35	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.8		1	06/04/2020 18:01	WG1486420

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1630		48.0	104	5	06/03/2020 03:48	WG1486010

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0646	B J	0.0226	0.104	1	06/03/2020 11:25	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	99.5			77.0-120		06/03/2020 11:25	WG1486242

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000487	0.00104	1	06/03/2020 04:09	WG1486129
Toluene	U		0.00136	0.00522	1	06/03/2020 04:09	WG1486129
Ethylbenzene	U		0.000769	0.00261	1	06/03/2020 04:09	WG1486129
Total Xylenes	U		0.000918	0.00678	1	06/03/2020 04:09	WG1486129
(S) Toluene-d8	171	J1		75.0-131		06/03/2020 04:09	WG1486129
(S) 4-Bromofluorobenzene	88.2			67.0-138		06/03/2020 04:09	WG1486129
(S) 1,2-Dichloroethane-d4	109			70.0-130		06/03/2020 04:09	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.68	4.17	1	06/03/2020 21:49	WG1486068
C28-C40 Oil Range	0.623	J	0.286	4.17	1	06/03/2020 21:49	WG1486068
(S) o-Terphenyl	70.0			18.0-148		06/03/2020 21:49	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.6		1	06/04/2020 18:01	WG1486420

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	2600		109	236	10	06/03/2020 04:05	WG1486010

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0257	0.118	1	06/03/2020 16:06	WG1486589
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		06/03/2020 16:06	WG1486589

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000552	0.00118	1	06/03/2020 04:30	WG1486129
Toluene	U		0.00154	0.00591	1	06/03/2020 04:30	WG1486129
Ethylbenzene	U		0.000871	0.00296	1	06/03/2020 04:30	WG1486129
Total Xylenes	U		0.00104	0.00769	1	06/03/2020 04:30	WG1486129
(S) Toluene-d8	115			75.0-131		06/03/2020 04:30	WG1486129
(S) 4-Bromofluorobenzene	95.4			67.0-138		06/03/2020 04:30	WG1486129
(S) 1,2-Dichloroethane-d4	102			70.0-130		06/03/2020 04:30	WG1486129

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.90	4.73	1	06/03/2020 22:02	WG1486068
C28-C40 Oil Range	U		0.324	4.73	1	06/03/2020 22:02	WG1486068
(S) o-Terphenyl	68.4			18.0-148		06/03/2020 22:02	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	06/04/2020 18:01	WG1486420

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	1670		47.4	103	5	06/03/2020 05:47	WG1486010

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0537	B J	0.0224	0.103	1	06/03/2020 12:10	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120		06/03/2020 12:10	WG1486242

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000482	0.00103	1	06/03/2020 04:50	WG1486129
Toluene	U		0.00134	0.00516	1	06/03/2020 04:50	WG1486129
Ethylbenzene	U		0.000760	0.00258	1	06/03/2020 04:50	WG1486129
Total Xylenes	U		0.000908	0.00670	1	06/03/2020 04:50	WG1486129
(S) Toluene-d8	123			75.0-131		06/03/2020 04:50	WG1486129
(S) 4-Bromofluorobenzene	105			67.0-138		06/03/2020 04:50	WG1486129
(S) 1,2-Dichloroethane-d4	110			70.0-130		06/03/2020 04:50	WG1486129

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	U		1.66	4.13	1	06/03/2020 22:15	WG1486068
C28-C40 Oil Range	0.781	J	0.283	4.13	1	06/03/2020 22:15	WG1486068
(S) o-Terphenyl	70.4			18.0-148		06/03/2020 22:15	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.1		1	06/04/2020 18:01	WG1486420

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Chloride	2420		97.8	213	10	06/03/2020 06:03	WG1486010

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0697	B J	0.0231	0.106	1	06/03/2020 12:32	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	98.9			77.0-120		06/03/2020 12:32	WG1486242

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
Benzene	U		0.000497	0.00106	1	06/03/2020 05:10	WG1486129
Toluene	U		0.00138	0.00532	1	06/03/2020 05:10	WG1486129
Ethylbenzene	U		0.000784	0.00266	1	06/03/2020 05:10	WG1486129
Total Xylenes	U		0.000936	0.00691	1	06/03/2020 05:10	WG1486129
(S) Toluene-d8	115			75.0-131		06/03/2020 05:10	WG1486129
(S) 4-Bromofluorobenzene	98.4			67.0-138		06/03/2020 05:10	WG1486129
(S) 1,2-Dichloroethane-d4	111			70.0-130		06/03/2020 05:10	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	1.85	J	1.71	4.25	1	06/03/2020 22:28	WG1486068
C28-C40 Oil Range	2.35	J	0.291	4.25	1	06/03/2020 22:28	WG1486068
(S) o-Terphenyl	68.4			18.0-148		06/03/2020 22:28	WG1486068

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	95.8		1	06/04/2020 18:01	WG1486420

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	400		9.60	20.9	1	06/03/2020 06:20	WG1486010

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0552	B J	0.0227	0.104	1	06/03/2020 12:54	WG1486242
(S) a,a,a-Trifluorotoluene(FID)	98.8			77.0-120		06/03/2020 12:54	WG1486242

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000487	0.00104	1	06/03/2020 05:31	WG1486129
Toluene	U		0.00136	0.00522	1	06/03/2020 05:31	WG1486129
Ethylbenzene	U		0.000769	0.00261	1	06/03/2020 05:31	WG1486129
Total Xylenes	U		0.000919	0.00679	1	06/03/2020 05:31	WG1486129
(S) Toluene-d8	138	J1		75.0-131		06/03/2020 05:31	WG1486129
(S) 4-Bromofluorobenzene	87.4			67.0-138		06/03/2020 05:31	WG1486129
(S) 1,2-Dichloroethane-d4	111			70.0-130		06/03/2020 05:31	WG1486129

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.85	J	1.68	4.18	1	06/03/2020 22:41	WG1486068
C28-C40 Oil Range	5.37		0.286	4.18	1	06/03/2020 22:41	WG1486068
(S) o-Terphenyl	68.9			18.0-148		06/03/2020 22:41	WG1486068

Collected date/time: 05/21/20 10:00

L1223523

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.4		1	06/04/2020 18:01	WG1486420

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	93.0		9.75	21.2	1	06/03/2020 06:37	WG1486010

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0230	0.106	1	06/04/2020 09:57	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	94.4			77.0-120		06/04/2020 09:57	WG1486611

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000495	0.00106	1	06/03/2020 05:51	WG1486129
Toluene	U		0.00138	0.00530	1	06/03/2020 05:51	WG1486129
Ethylbenzene	U		0.000781	0.00265	1	06/03/2020 05:51	WG1486129
Total Xylenes	U		0.000932	0.00689	1	06/03/2020 05:51	WG1486129
(S) Toluene-d8	113			75.0-131		06/03/2020 05:51	WG1486129
(S) 4-Bromofluorobenzene	99.2			67.0-138		06/03/2020 05:51	WG1486129
(S) 1,2-Dichloroethane-d4	109			70.0-130		06/03/2020 05:51	WG1486129

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	9.77		1.71	4.24	1	06/08/2020 02:30	WG1486508
C28-C40 Oil Range	19.3		0.290	4.24	1	06/08/2020 02:30	WG1486508
(S) o-Terphenyl	118			18.0-148		06/08/2020 02:30	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.9		1	06/04/2020 18:01	WG1486420

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	20.7		9.50	20.6	1	06/03/2020 06:54	WG1486010

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	06/04/2020 10:21	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	99.0			77.0-120		06/04/2020 10:21	WG1486611

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000482	0.00103	1	06/03/2020 06:11	WG1486129
Toluene	U		0.00134	0.00516	1	06/03/2020 06:11	WG1486129
Ethylbenzene	U		0.000761	0.00258	1	06/03/2020 06:11	WG1486129
Total Xylenes	U		0.000908	0.00671	1	06/03/2020 06:11	WG1486129
(S) Toluene-d8	122			75.0-131		06/03/2020 06:11	WG1486129
(S) 4-Bromofluorobenzene	123			67.0-138		06/03/2020 06:11	WG1486129
(S) 1,2-Dichloroethane-d4	108			70.0-130		06/03/2020 06:11	WG1486129

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	4.86		1.66	4.13	1	06/08/2020 22:24	WG1486508
C28-C40 Oil Range	10.4		0.283	4.13	1	06/08/2020 22:24	WG1486508
(S) o-Terphenyl	122			18.0-148		06/08/2020 22:24	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.1		1	06/04/2020 17:36	WG1486421

1 Cp

2 Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	65.5		9.57	20.8	1	06/03/2020 07:11	WG1486010

3 Ss

4 Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0226	0.104	1	06/04/2020 10:45	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	95.4			77.0-120		06/04/2020 10:45	WG1486611

5 Sr

6 Qc

7 Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000486	0.00104	1	06/03/2020 06:32	WG1486129
Toluene	U		0.00135	0.00520	1	06/03/2020 06:32	WG1486129
Ethylbenzene	U		0.000767	0.00260	1	06/03/2020 06:32	WG1486129
Total Xylenes	U		0.000916	0.00676	1	06/03/2020 06:32	WG1486129
(S) Toluene-d8	117			75.0-131		06/03/2020 06:32	WG1486129
(S) 4-Bromofluorobenzene	69.8			67.0-138		06/03/2020 06:32	WG1486129
(S) 1,2-Dichloroethane-d4	109			70.0-130		06/03/2020 06:32	WG1486129

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	2.47	J	1.68	4.16	1	06/08/2020 00:31	WG1486508
C28-C40 Oil Range	2.47	J	0.285	4.16	1	06/08/2020 00:31	WG1486508
(S) o-Terphenyl	121			18.0-148		06/08/2020 00:31	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.6		1	06/04/2020 17:36	WG1486421

¹ Cp

² Tc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	27.8		9.33	20.3	1	06/03/2020 07:28	WG1486010

³ Ss

⁴ Cn

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0913	J	0.0220	0.101	1	06/04/2020 11:09	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	96.7			77.0-120		06/04/2020 11:09	WG1486611

⁵ Sr

⁶ Qc

⁷ Gl

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000474	0.00101	1	06/03/2020 06:52	WG1486129
Toluene	U		0.00132	0.00507	1	06/03/2020 06:52	WG1486129
Ethylbenzene	U		0.000747	0.00254	1	06/03/2020 06:52	WG1486129
Total Xylenes	U		0.000892	0.00659	1	06/03/2020 06:52	WG1486129
(S) Toluene-d8	115			75.0-131		06/03/2020 06:52	WG1486129
(S) 4-Bromofluorobenzene	61.5	J2		67.0-138		06/03/2020 06:52	WG1486129
(S) 1,2-Dichloroethane-d4	110			70.0-130		06/03/2020 06:52	WG1486129

⁸ Al

⁹ Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	12.6		1.63	4.06	1	06/08/2020 02:56	WG1486508
C28-C40 Oil Range	25.1		0.278	4.06	1	06/08/2020 02:56	WG1486508
(S) o-Terphenyl	139			18.0-148		06/08/2020 02:56	WG1486508

Collected date/time: 05/21/20 10:45

L1223523

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	97.3		1	06/04/2020 17:36	WG1486421

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	19.8	J	9.45	20.5	1	06/03/2020 07:45	WG1486010

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	06/04/2020 11:33	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120		06/04/2020 11:33	WG1486611

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000480	0.00103	1	06/03/2020 09:37	WG1486258
Toluene	U		0.00134	0.00514	1	06/03/2020 09:37	WG1486258
Ethylbenzene	U		0.000757	0.00257	1	06/03/2020 09:37	WG1486258
Total Xylenes	U		0.000904	0.00668	1	06/03/2020 09:37	WG1486258
(S) Toluene-d8	104			75.0-131		06/03/2020 09:37	WG1486258
(S) 4-Bromofluorobenzene	89.1			67.0-138		06/03/2020 09:37	WG1486258
(S) 1,2-Dichloroethane-d4	105			70.0-130		06/03/2020 09:37	WG1486258

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	7.70		1.65	4.11	1	06/08/2020 02:43	WG1486508
C28-C40 Oil Range	21.1		0.281	4.11	1	06/08/2020 02:43	WG1486508
(S) o-Terphenyl	130			18.0-148		06/08/2020 02:43	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	97.3		1	06/04/2020 17:36	WG1486421

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Chloride	273		9.46	20.6	1	06/03/2020 08:36	WG1486010

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0223	0.103	1	06/04/2020 11:57	WG1486611
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		06/04/2020 11:57	WG1486611

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000480	0.00103	1	06/03/2020 09:56	WG1486258
Toluene	U		0.00134	0.00514	1	06/03/2020 09:56	WG1486258
Ethylbenzene	U		0.000758	0.00257	1	06/03/2020 09:56	WG1486258
Total Xylenes	U		0.000905	0.00668	1	06/03/2020 09:56	WG1486258
(S) Toluene-d8	104			75.0-131		06/03/2020 09:56	WG1486258
(S) 4-Bromofluorobenzene	87.5			67.0-138		06/03/2020 09:56	WG1486258
(S) 1,2-Dichloroethane-d4	99.9			70.0-130		06/03/2020 09:56	WG1486258

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	2.07	J	1.66	4.11	1	06/08/2020 00:44	WG1486508
C28-C40 Oil Range	2.52	J	0.282	4.11	1	06/08/2020 00:44	WG1486508
(S) o-Terphenyl	98.1			18.0-148		06/08/2020 00:44	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.3		1	06/04/2020 17:36	WG1486421

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	20.2	J	9.56	20.8	1	06/03/2020 08:53	WG1486010

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0262	J	0.0225	0.104	1	06/04/2020 01:24	WG1486617
(S) a,a,a-Trifluorotoluene(FID)	98.8			77.0-120		06/04/2020 01:24	WG1486617

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000485	0.00104	1	06/03/2020 10:15	WG1486258
Toluene	U		0.00135	0.00519	1	06/03/2020 10:15	WG1486258
Ethylbenzene	U		0.000766	0.00260	1	06/03/2020 10:15	WG1486258
Total Xylenes	U		0.000914	0.00675	1	06/03/2020 10:15	WG1486258
(S) Toluene-d8	104			75.0-131		06/03/2020 10:15	WG1486258
(S) 4-Bromofluorobenzene	88.2			67.0-138		06/03/2020 10:15	WG1486258
(S) 1,2-Dichloroethane-d4	98.9			70.0-130		06/03/2020 10:15	WG1486258

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	605		16.7	41.6	10	06/08/2020 03:36	WG1486508
C28-C40 Oil Range	977		2.85	41.6	10	06/08/2020 03:36	WG1486508
(S) o-Terphenyl	198	J1		18.0-148		06/08/2020 03:36	WG1486508

Sample Narrative:

L1223523-23 WG1486508: Surrogate failure due to matrix interference

Collected date/time: 05/21/20 11:35

L1223523

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.8		1	06/04/2020 17:36	WG1486421

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.50	20.7	1	06/03/2020 09:10	WG1486010

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0224	0.103	1	06/04/2020 01:44	WG1486617
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		06/04/2020 01:44	WG1486617

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000482	0.00103	1	06/03/2020 10:13	WG1486294
Toluene	U		0.00134	0.00516	1	06/03/2020 10:13	WG1486294
Ethylbenzene	U		0.000761	0.00258	1	06/03/2020 10:13	WG1486294
Total Xylenes	U		0.000909	0.00671	1	06/03/2020 10:13	WG1486294
(S) Toluene-d8	99.6			75.0-131		06/03/2020 10:13	WG1486294
(S) 4-Bromofluorobenzene	94.9			67.0-138		06/03/2020 10:13	WG1486294
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		06/03/2020 10:13	WG1486294

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	22.6		1.66	4.13	1	06/08/2020 03:10	WG1486508
C28-C40 Oil Range	38.6		0.283	4.13	1	06/08/2020 03:10	WG1486508
(S) o-Terphenyl	130			18.0-148		06/08/2020 03:10	WG1486508

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	96.3		1	06/04/2020 17:36	WG1486421

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Wet Chemistry by Method 300.0

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloride	U		9.55	20.8	1	06/03/2020 09:26	WG1486010

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0225	0.104	1	06/04/2020 02:05	WG1486617
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		06/04/2020 02:05	WG1486617

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000485	0.00104	1	06/03/2020 10:33	WG1486294
Toluene	U		0.00135	0.00519	1	06/03/2020 10:33	WG1486294
Ethylbenzene	U		0.000765	0.00260	1	06/03/2020 10:33	WG1486294
Total Xylenes	U		0.000914	0.00675	1	06/03/2020 10:33	WG1486294
(S) Toluene-d8	98.4			75.0-131		06/03/2020 10:33	WG1486294
(S) 4-Bromofluorobenzene	95.2			67.0-138		06/03/2020 10:33	WG1486294
(S) 1,2-Dichloroethane-d4	92.9			70.0-130		06/03/2020 10:33	WG1486294

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	3.09	J	1.67	4.15	1	06/08/2020 00:57	WG1486508
C10-C28 Diesel Range	U	Q	1.67	4.15	1	06/09/2020 13:28	WG1488541
C28-C40 Oil Range	5.18		0.284	4.15	1	06/08/2020 00:57	WG1486508
C28-C40 Oil Range	1.13	J Q	0.284	4.15	1	06/09/2020 13:28	WG1488541
(S) o-Terphenyl	115			18.0-148		06/08/2020 00:57	WG1486508
(S) o-Terphenyl	63.5			18.0-148		06/09/2020 13:28	WG1488541

Sample Narrative:

L1223523-25 WG1486508, WG1488541: Duplicate Analysis performed due to contamination. Results don't confirm; both analyses reported

Total Solids by Method 2540 G-2011

L1223523-01,02,03,04

Method Blank (MB)

(MB) R3535378-1 06/04/20 14:19

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1223485-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1223485-24 06/04/20 14:19 • (DUP) R3535378-3 06/04/20 14:19

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	85.9	85.4	1	0.523		10

Laboratory Control Sample (LCS)

(LCS) R3535378-2 06/04/20 14:19

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3535553-1 06/04/20 18:21

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3535553-3 06/04/20 18:21

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%			%		%
Total Solids	93.6		1	0.111		10

Laboratory Control Sample (LCS)

(LCS) R3535553-2 06/04/20 18:21

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Method Blank (MB)

(MB) R3535512-1 06/04/20 18:01

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1223523-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1223523-10 06/04/20 18:01 • (DUP) R3535512-3 06/04/20 18:01

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	97.7	97.9	1	0.148		10

Laboratory Control Sample (LCS)

(LCS) R3535512-2 06/04/20 18:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.1	100	85.0-115	

1	Cp
2	Tc
3	Ss
4	Cn
5	Sr
6	Qc
7	Gl
8	Al
9	Sc

Total Solids by Method 2540 G-2011 [L1223523-19,20,21,22,23,24,25](#)

Method Blank (MB)

(MB) R3535509-1 06/04/20 17:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

L1223523-20 Original Sample (OS) • Duplicate (DUP)

(OS) L1223523-20 06/04/20 17:36 • (DUP) R3535509-3 06/04/20 17:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	98.6	98.7	1	0.118		10

Laboratory Control Sample (LCS)

(LCS) R3535509-2 06/04/20 17:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	49.7	99.4	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3534872-1 06/03/20 14:32

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1223384-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1223384-22 06/03/20 15:30 • (DUP) R3534872-3 06/03/20 15:39

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	83.5	86.3	1	3.27		20

L1223523-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1223523-06 06/03/20 18:59 • (DUP) R3534872-6 06/03/20 19:09

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	124	119	1	3.69		20

Laboratory Control Sample (LCS)

(LCS) R3534872-2 06/03/20 14:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	187	93.7	90.0-110	

L1223384-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223384-25 06/03/20 16:08 • (MS) R3534872-4 06/03/20 16:37 • (MSD) R3534872-5 06/03/20 16:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	544	27.1	548	559	95.6	97.8	1	80.0-120			2.13	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Wet Chemistry by Method 300.0

Method Blank (MB)

(MB) R3534486-1 06/03/20 01:30

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Chloride	U		9.20	20.0

L1223523-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1223523-08 06/03/20 02:24 • (DUP) R3534486-3 06/03/20 02:40

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1320	1350	5	2.47		20

L1223768-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1223768-02 06/03/20 10:00 • (DUP) R3534486-6 06/03/20 10:17

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	57.3	54.7	1	4.48		20

Laboratory Control Sample (LCS)

(LCS) R3534486-2 06/03/20 01:47

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	200	205	103	90.0-110	

L1223523-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223523-14 06/03/20 04:22 • (MS) R3534486-4 06/03/20 05:13 • (MSD) R3534486-5 06/03/20 05:30

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	516	1850	2410	2300	110	88.1	1	80.0-120	E	E	4.81	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO [L1223523-01,02,03](#)

Method Blank (MB)

(MB) R3534484-2 06/02/20 23:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	95.9			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3534484-1 06/02/20 22:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.81	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			105	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO [L1223523-08,09,10,11,12,14,15,16](#)

Method Blank (MB)

(MB) R3534476-2 06/03/20 08:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0483	⌵	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3534476-1 06/03/20 07:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.59	102	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534476-3 06/03/20 17:31 • (MSD) R3534476-4 06/03/20 17:53

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	129		80.6	82.7	76.0	78.0	25	10.0-151			2.57	28
(S) a,a,a-Trifluorotoluene(FID)					105	105		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO [L1223523-04.05.06.07](#)

Method Blank (MB)

(MB) R3534732-2 06/03/20 15:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	97.8			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3534732-1 06/03/20 14:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.42	98.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534732-3 06/04/20 00:00 • (MSD) R3534732-4 06/04/20 00:24

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	2.58		1.78	1.84	82.8	85.6	1	10.0-151			3.31	28
(S) a,a,a-Trifluorotoluene(FID)					107	107		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1223523-13](#)

Method Blank (MB)

(MB) R3534704-3 06/03/20 12:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3534704-2 06/03/20 11:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.84	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO [L1223523-17,18,19,20,21,22](#)

Method Blank (MB)

(MB) R3534893-2 06/04/20 02:24

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.1			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3534893-1 06/04/20 01:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	4.24	77.1	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	

Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) • (MS) R3534893-3 06/04/20 12:21 • (MSD) R3534893-4 06/04/20 12:45

Analyte	Spike Amount mg/kg	Original Result	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	129		92.9	64.5	96.5	67.0	25	10.0-151		J3	36.1	28
(S) a,a,a-Trifluorotoluene(FID)					108	109		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC) by Method 8015D/GRO

[L1223523-23,24,25](#)

Method Blank (MB)

(MB) R3534993-2 06/04/20 00:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3534993-1 06/04/20 00:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.50	5.81	106	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			99.9	77.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

L1223523-01,02,03,04,06,07,08,09,10,11,12,13,14,15,16,17,18,19,20

Method Blank (MB)

(MB) R3534611-2 06/03/20 00:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	119			75.0-131
(S) 4-Bromofluorobenzene	81.1			67.0-138
(S) 1,2-Dichloroethane-d4	111			70.0-130

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R3534611-1 06/02/20 22:55

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.105	84.0	70.0-123	
Ethylbenzene	0.125	0.111	88.8	74.0-126	
Toluene	0.125	0.107	85.6	75.0-121	
Xylenes, Total	0.375	0.321	85.6	72.0-127	
(S) Toluene-d8			109	75.0-131	
(S) 4-Bromofluorobenzene			98.3	67.0-138	
(S) 1,2-Dichloroethane-d4			117	70.0-130	

L1223523-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223523-20 06/03/20 06:52 • (MS) R3534611-3 06/03/20 07:12 • (MSD) R3534611-4 06/03/20 07:49

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.127	U	0.111	0.161	87.2	127	1	10.0-149		J3	37.3	37
Ethylbenzene	0.127	U	0.123	0.120	96.8	94.4	1	10.0-160			2.51	38
Toluene	0.127	U	0.166	0.0960	131	75.8	1	10.0-156		J3	53.6	38
Xylenes, Total	0.380	U	0.302	0.349	79.5	91.7	1	10.0-160			14.3	38
(S) Toluene-d8					161	91.8		75.0-131	J1			
(S) 4-Bromofluorobenzene					85.1	101		67.0-138				
(S) 1,2-Dichloroethane-d4					113	161		70.0-130		J1		

Volatile Organic Compounds (GC/MS) by Method 8260B

[L1223523-21,22,23](#)

Method Blank (MB)

(MB) R3534502-2 06/03/20 08:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	106			75.0-131
(S) 4-Bromofluorobenzene	84.7			67.0-138
(S) 1,2-Dichloroethane-d4	96.2			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R3534502-1 06/03/20 07:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.109	87.2	70.0-123	
Ethylbenzene	0.125	0.101	80.8	74.0-126	
Toluene	0.125	0.102	81.6	75.0-121	
Xylenes, Total	0.375	0.283	75.5	72.0-127	
(S) Toluene-d8			98.6	75.0-131	
(S) 4-Bromofluorobenzene			93.7	67.0-138	
(S) 1,2-Dichloroethane-d4			109	70.0-130	

Volatile Organic Compounds (GC/MS) by Method 8260B

L1223523-24,25

Method Blank (MB)

(MB) R3534949-1 06/03/20 08:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	101			75.0-131
(S) 4-Bromofluorobenzene	94.7			67.0-138
(S) 1,2-Dichloroethane-d4	92.0			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3534949-2 06/03/20 08:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.113	90.4	70.0-123	
Ethylbenzene	0.125	0.122	97.6	74.0-126	
Toluene	0.125	0.106	84.8	75.0-121	
Xylenes, Total	0.375	0.354	94.4	72.0-127	
(S) Toluene-d8			94.3	75.0-131	
(S) 4-Bromofluorobenzene			96.8	67.0-138	
(S) 1,2-Dichloroethane-d4			102	70.0-130	

L1223420-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223420-05 06/03/20 15:55 • (MS) R3534949-3 06/03/20 16:34 • (MSD) R3534949-4 06/03/20 16:53

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.132	U	0.0933	0.111	70.9	84.0	1	10.0-149			16.9	37
Ethylbenzene	0.132	U	0.0995	0.123	75.6	93.6	1	10.0-160			21.3	38
Toluene	0.132	U	0.0957	0.112	72.7	84.8	1	10.0-156			15.3	38
Xylenes, Total	0.395	U	0.262	0.315	66.4	79.7	1	10.0-160			18.2	38
(S) Toluene-d8					97.8	98.1		75.0-131				
(S) 4-Bromofluorobenzene					92.4	92.3		67.0-138				
(S) 1,2-Dichloroethane-d4					81.6	76.7		70.0-130				

Volatile Organic Compounds (GC/MS) by Method 8260B

L1223523-05

Method Blank (MB)

(MB) R3534692-2 06/03/20 09:01

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Ethylbenzene	U		0.000737	0.00250
Toluene	U		0.00130	0.00500
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	107			75.0-131
(S) 4-Bromofluorobenzene	73.0			67.0-138
(S) 1,2-Dichloroethane-d4	80.3			70.0-130

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

Laboratory Control Sample (LCS)

(LCS) R3534692-1 06/03/20 07:45

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.125	0.111	88.8	70.0-123	
Ethylbenzene	0.125	0.111	88.8	74.0-126	
Toluene	0.125	0.105	84.0	75.0-121	
Xylenes, Total	0.375	0.286	76.3	72.0-127	
(S) Toluene-d8			93.1	75.0-131	
(S) 4-Bromofluorobenzene			108	67.0-138	
(S) 1,2-Dichloroethane-d4			94.0	70.0-130	

6
Qc

7
Gl

8
Al

9
Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

Method Blank (MB)

(MB) R3534745-1 06/03/20 16:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	65.9			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3534745-2 06/03/20 16:30

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	39.6	79.2	50.0-150	
(S) o-Terphenyl			90.8	18.0-148	

L1223523-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223523-01 06/03/20 23:47 • (MS) R3534745-3 06/04/20 00:00 • (MSD) R3534745-4 06/04/20 00:13

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	53.4	25.4	70.9	65.8	85.2	75.6	1	50.0-150			7.50	20
(S) o-Terphenyl					67.6	77.2		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method 8015

L1223523-17,18,19,20,21,22,23,24,25

Method Blank (MB)

(MB) R3535684-1 06/05/20 13:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	94.4			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3535684-2 06/05/20 13:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	42.6	85.2	50.0-150	
(S) o-Terphenyl			76.9	18.0-148	

L1223523-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1223523-18 06/08/20 22:24 • (MS) R3536391-1 06/08/20 22:37 • (MSD) R3536391-2 06/08/20 22:51

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	51.3	4.86	58.7	60.3	105	109	1	50.0-150			2.60	20
(S) o-Terphenyl					112	105		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3536639-1 06/09/20 11:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	65.5			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3536639-2 06/09/20 11:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	36.8	73.6	50.0-150	
(S) o-Terphenyl			61.1	18.0-148	

L1224474-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1224474-07 06/09/20 19:00 • (MS) R3536639-3 06/09/20 19:14 • (MSD) R3536639-4 06/09/20 19:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	55.7	U	35.1	39.8	63.0	71.0	1	50.0-150			12.6	20
(S) o-Terphenyl					46.1	58.7		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
Q	Sample was prepared and/or analyzed past holding time as defined in the method. Concentrations should be considered minimum values.

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7G

8Al

9Sc

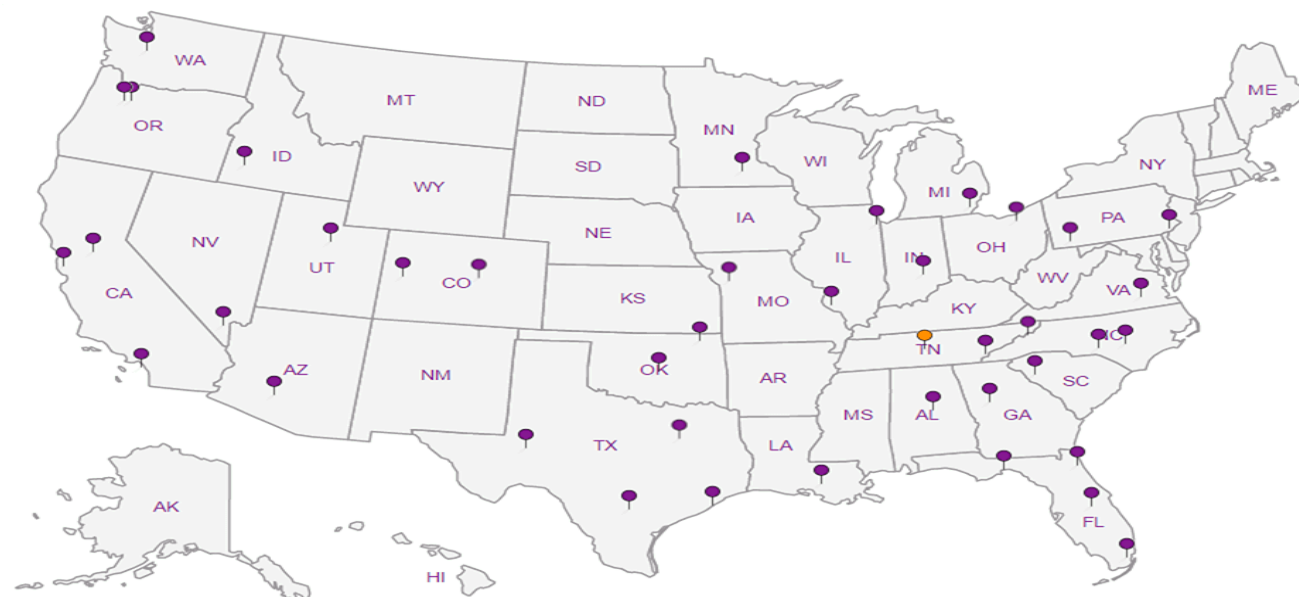
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

Alabama	40660	Nebraska	NE-05-15
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ^{1 6}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA




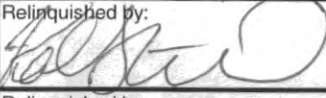
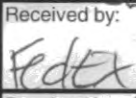
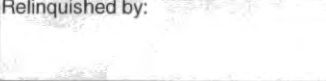

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable


Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



L1223523


 Tetra Tech, Inc.				901 West Wall Street, Suite 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946				1084																																																																										
Client Name: Conoco Phillips				Site Manager: Christian Llull				ANALYSIS REQUEST (Circle or Specify Method No.) <table border="1"><tr><td>BTEX</td><td>8021B</td><td>BTEX</td><td>8260B</td><td>TPH</td><td>TX1005 (Ext to C35)</td><td>TPH</td><td>8015M (GRO - DRO - ORO - MRO)</td><td>PAH</td><td>8270C</td><td>Total Metals Ag As Ba Cd Cr Pb Se Hg</td><td>TCLP Metals Ag As Ba Cd Cr Pb Se Hg</td><td>TCLP Volatiles</td><td>TCLP Semi Volatiles</td><td>RCI</td><td>GC/MS Vol. 8260B / 624</td><td>GC/MS Semi. Vol. 8270C/625</td><td>PCB's</td><td>8082 / 608</td><td>NORM</td><td>PLM (Asbestos)</td><td>Chloride</td><td>300.0</td><td>Chloride</td><td>Sulfate</td><td>TDS</td><td>General Water Chemistry (see attached list)</td><td>Anion/Cation Balance</td><td>TPH</td><td>8015R</td><td>HOLD</td></tr><tr><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td></tr></table>												BTEX	8021B	BTEX	8260B	TPH	TX1005 (Ext to C35)	TPH	8015M (GRO - DRO - ORO - MRO)	PAH	8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's	8082 / 608	NORM	PLM (Asbestos)	Chloride	300.0	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH	8015R	HOLD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BTEX	8021B	BTEX	8260B	TPH	TX1005 (Ext to C35)	TPH	8015M (GRO - DRO - ORO - MRO)													PAH	8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's	8082 / 608	NORM	PLM (Asbestos)	Chloride	300.0	Chloride	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH	8015R	HOLD																																								
X	X	X	X	X	X	X	X													X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X																																							
Project Name: EVGSAU 3366-029				Contact Info: Email: christian.llull@tetratech.com Phone: (512) 338-1667																																																																														
Project Location: (county, state) Lea County, New Mexico				Project #: 212C-MD-01576																																																																														
Invoice to: Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701				Sampler Signature: Joe Tyler																																																																														
Receiving Laboratory: Pace Analytical				Comments: COPTETRA Acctnum																																																																														
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION			SAMPLING YEAR: 2020		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)																																																																					
	DATE		TIME	WATER	SOIL	HCL	HNO ₃	ICE	NONE																																																																									
	BH-20-1 (0'-1')		05/20/20	1400	X			X			1			N	X	X									X																																																									
	BH-20-1 (2'-3')		05/20/20	1405	X			X			1			N	X	X									X																																																									
	BH-20-1 (4'-5') ✓		05/20/20	1410	X			X			1			N	X	X									X																																																									
	BH-20-1 (6'-7')		05/20/20	1415	X			X			1			N	X	X									X																																																									
	BH-20-1 (9'-10')		05/20/20	1420	X			X			1			N	X	X									X																																																									
	BH-20-1 (14'-15')		05/20/20	1430	X			X			1			N	X	X									X																																																									
	BH-20-2 (0'-1')		05/20/20	1450	X			X			1			N	X	X									X																																																									
	BH-20-2 (2'-3')		05/20/20	1500	X			X			1			N	X	X									X																																																									
BH-20-2 (4'-5') ✓		05/20/20	1505	X			X			1	N	X	X									X																																																												
BH-20-2 (6'-7')		05/20/20	1510	X			X			1	N	X	X									X																																																												
Relinquished by:  52820 12:30				Received by:  52820 12:30				LAB USE ONLY Sample Temperature 1.0				REMARKS: <input checked="" type="checkbox"/> Standard <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																																																																						
Relinquished by:  52820 16:00				Received by:  52820 16:00																																																																														
Relinquished by:  52820 0900				Received by:  52820 0900																																																																														
ORIGINAL COPY																(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____																																																																		

L1277523

				Tetra Tech, Inc.				901 West Wall Street, Suite 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946																												
Client Name: Conoco Phillips				Site Manager: Christian Llull				ANALYSIS REQUEST (Circle or Specify Method No.) <table border="1"><tr><td>BTEX 8021B</td><td>BTEX 8260B</td><td>TPH TX1005 (Ext to C35)</td><td>TPH 8015M (GRO - DRO - ORO - MRO)</td><td>PAH 8270C</td><td>Total Metals Ag As Ba Cd Cr Pb Se Hg</td><td>TCLP Metals Ag As Ba Cd Cr Pb Se Hg</td><td>TCLP Volatiles</td><td>TCLP Semi Volatiles</td><td>RCI</td><td>GC/MS Vol. 8260B / 624</td><td>GC/MS Semi. Vol. 8270C/625</td><td>PCB's 8082 / 608</td><td>NORM</td><td>PLM (Asbestos)</td><td>Chloride 300.0</td><td>Chloride Sulfate TDS</td><td>General Water Chemistry (see attached list)</td><td>Anion/Cation Balance</td><td>TPH 8015R</td><td>HOLD</td></tr></table>								BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD
BTEX 8021B	BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles									TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	TPH 8015R	HOLD								
Project Name: EVGSAU 3366-029				Contact Info: Email: christian.llull@tetrattech.com Phone: (512) 338-1667																																
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LAB # (LAB USE ONLY)		SAMPLE IDENTIFICATION		SAMPLING YEAR: 2020		MATRIX		PRESERVATIVE METHOD				# CONTAINERS		FILTERED (Y/N)																						
				DATE TIME		WATER SOIL		HCL HNO ₃ ICE NONE																												
		BH-20-2 (9'-10')		05/20/20 1520		X		X				1 N		X X																						
		BH-20-2 (14'-15')		05/20/20 1530		X		X				1 N		X X																						
		BH-20-2 (19'-20')		05/20/20 1540		X		X				1 N		X X																						
		BH-20-2 (24'-25')		05/20/20 1550		X		X				1 N		X X																						
		BH-20-2 (29'-30')		05/20/20 1610		X		X				1 N		X X																						
		BH-20-2 (39'-40')		05/20/20 1630		X		X				1 N		X X																						
		BH-20-3 (0'-1')		05/21/20 1000		X		X				1 N		X X																						
		BH-20-3 (2'-3')		05/21/20 1005		X		X				1 N		X X																						
		BH-20-3 (4'-5')		05/21/20 1010		X		X				1 N		X X																						
		BH-20-4 (0'-1')		05/21/20 1040		X		X				1 N		X X																						
Relinquished by: <i>Sid D. Daniel</i> Date: 5/28/20 Time: 12:30				Received by: <i>FedEx</i> Date: 5/28/20 Time: 12:30				LAB USE ONLY				REMARKS: <input checked="" type="checkbox"/> Standard <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																								
Relinquished by: <i>Kaiw</i> Date: 5/28/20 Time: Kaiw				Received by: <i>FedEx</i> Date: 5/28/20 Time: Kaiw				Sample Temperature																												
Relinquished by: <i>Pul</i> Date: 5/29/20 Time: 0900				Received by: <i>Pul</i> Date: 5/29/20 Time: 0900				1.0																												
ORIGINAL COPY												(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____																								

ORIGINAL COPY

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: COPTETRA		L1223523		
Cooler Received/Opened On: 5 / 29 / 20		Temperature: 10		
Received By: Paul Minnich				
Signature: 				
Receipt Check List		NP	Yes	No
COC Seal Present / Intact?		✓		
COC Signed / Accurate?			✓	
Bottles arrive intact?			✓	
Correct bottles used?			✓	
Sufficient volume sent?			✓	
If Applicable:				
VOA Zero headspace?				
Preservation Correct / Checked?				

Remediation Report and Closure Report
Maverick Permian, LLC
EVGSAU 3366-029 Flowline Release
Incident IDs: nJXK1609752883 and nPRS0420835421

March 25, 2024

ATTACHMENT 5 – MAVERICK REMEDIATION LABORATORY DATA



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

January 09, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU 3366-029 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/05/24 9:36.

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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 1 (4.0') (H240044-01)

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	01/05/2024	ND	2.19	110	2.00	0.222	
Toluene*	<0.050	0.050	01/05/2024	ND	2.15	108	2.00	0.186	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.14	107	2.00	0.131	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.27	105	6.00	0.0257	
Total BTX	<0.300	0.300	01/05/2024	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	1020	16.0	01/05/2024	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	01/08/2024	ND	176	87.9	200	8.79	
DRO >C10-C28*	16.7	10.0	01/08/2024	ND	180	89.9	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 2 (4.0') (H240044-02)

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	01/05/2024	ND	2.19	110	2.00	0.222	
Toluene*	<0.050	0.050	01/05/2024	ND	2.15	108	2.00	0.186	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.14	107	2.00	0.131	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.27	105	6.00	0.0257	
Total BTEX	<0.300	0.300	01/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	352	16.0	01/05/2024	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	01/05/2024	ND	176	87.9	200	8.79	
DRO >C10-C28*	11.8	10.0	01/05/2024	ND	180	89.9	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 3 (4.0') (H240044-03)

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	01/05/2024	ND	2.19	110	2.00	0.222		
Toluene*	<0.050	0.050	01/05/2024	ND	2.15	108	2.00	0.186		
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.14	107	2.00	0.131		
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.27	105	6.00	0.0257		
Total BTEX	<0.300	0.300	01/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	256	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32	QM-07
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 4 (4.0') (H240044-04)

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	01/05/2024	ND	2.19	110	2.00	0.222	
Toluene*	<0.050	0.050	01/05/2024	ND	2.15	108	2.00	0.186	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.14	107	2.00	0.131	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.27	105	6.00	0.0257	
Total BTEX	<0.300	0.300	01/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	736	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 116 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 5 (4.0') (H240044-05)

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	01/05/2024	ND	2.19	110	2.00	0.222		
Toluene*	<0.050	0.050	01/05/2024	ND	2.15	108	2.00	0.186		
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.14	107	2.00	0.131		
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.27	105	6.00	0.0257		
Total BTEX	<0.300	0.300	01/05/2024	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	2320	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 6 (4.0') (H240044-06)

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	01/05/2024	ND	2.19	110	2.00	0.222	
Toluene*	<0.050	0.050	01/05/2024	ND	2.15	108	2.00	0.186	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.14	107	2.00	0.131	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.27	105	6.00	0.0257	
Total BTEX	<0.300	0.300	01/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	1790	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	15.3	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 7 (4.0') (H240044-07)

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	01/05/2024	ND	2.19	110	2.00	0.222		
Toluene*	<0.050	0.050	01/05/2024	ND	2.15	108	2.00	0.186		
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.14	107	2.00	0.131		
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.27	105	6.00	0.0257		
Total BTEX	<0.300	0.300	01/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	3480	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 114 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 8 (4.0') (H240044-08)

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	01/05/2024	ND	2.19	110	2.00	0.222	
Toluene*	<0.050	0.050	01/05/2024	ND	2.15	108	2.00	0.186	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.14	107	2.00	0.131	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.27	105	6.00	0.0257	
Total BTEX	<0.300	0.300	01/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	1940	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 9 (4.0') (H240044-09)

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	01/05/2024	ND	2.19	110	2.00	0.222		
Toluene*	<0.050	0.050	01/05/2024	ND	2.15	108	2.00	0.186		
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.14	107	2.00	0.131		
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.27	105	6.00	0.0257		
Total BTEX	<0.300	0.300	01/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	4520	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 111 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 10 (4.0') (H240044-10)

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	01/05/2024	ND	2.19	110	2.00	0.222		
Toluene*	<0.050	0.050	01/05/2024	ND	2.15	108	2.00	0.186		
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.14	107	2.00	0.131		
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.27	105	6.00	0.0257		
Total BTEX	<0.300	0.300	01/05/2024	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	3520	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 11 (4.0') (H240044-11)

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	01/05/2024	ND	2.23	112	2.00	0.923	
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816	
Total BTEX	<0.300	0.300	01/05/2024	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	2560	16.0	01/05/2024	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	01/08/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 12 (4.0') (H240044-12)

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	01/05/2024	ND	2.23	112	2.00	0.923		
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33		
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816		
Total BTEX	<0.300	0.300	01/05/2024	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	2400	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32		
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846		
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND						

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 13 (4.0') (H240044-13)

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	01/05/2024	ND	2.23	112	2.00	0.923	
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816	
Total BTEX	<0.300	0.300	01/05/2024	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	2280	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 14 (4.0') (H240044-14)

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	01/05/2024	ND	2.23	112	2.00	0.923		
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33		
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39		
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816		
Total BTEx	<0.300	0.300	01/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	2360	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 1 (H240044-15)

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	01/05/2024	ND	2.23	112	2.00	0.923	
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816	
Total BTEX	<0.300	0.300	01/05/2024	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	352	16.0	01/05/2024	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	01/08/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/08/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/08/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/05/2024	Sampling Date:	01/04/2024
Reported:	01/09/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Dionica Hinojos
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 2 (H240044-16)

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	01/05/2024	ND	2.23	112	2.00	0.923	
Toluene*	<0.050	0.050	01/05/2024	ND	2.25	112	2.00	1.33	
Ethylbenzene*	<0.050	0.050	01/05/2024	ND	2.24	112	2.00	1.39	
Total Xylenes*	<0.150	0.150	01/05/2024	ND	6.74	112	6.00	0.816	
Total BTEX	<0.300	0.300	01/05/2024	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	320	16.0	01/05/2024	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	01/05/2024	ND	181	90.7	200	1.32	
DRO >C10-C28*	<10.0	10.0	01/05/2024	ND	191	95.4	200	0.846	
EXT DRO >C28-C36	<10.0	10.0	01/05/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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

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

Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Maverick Natural Resources

Site Manager:

Chuck Terhune

EV/GSAU 3366-29 Flowline Release

281-755-8965

chuck.terhune@tetratech.com

Lea County, NM

Project #:

212C-MD-03313

Attn: Chuck Terhune

Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

SAMPLE IDENTIFICATION

JSE Y	#	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST
			YEAR: 2023	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
	1	FS-1 (4.0')		1/4/2024		X			X				BTEX 8021B BTEX 8260B
	2	FS-2 (4.0')		1/4/2024		X			X				TPH TX1005 (Ext to C35)
	3	FS-3 (4.0')		1/4/2024		X			X				TPH 8015M (GRO - DRO - ORO - MRO)
	4	FS-4 (4.0')		1/4/2024		X			X				PAH 8270C
	5	FS-5 (4.0')		1/4/2024		X			X				Total Metals Ag As Ba Cd Cr Pb Se Hg
	6	FS-6 (4.0')		1/4/2024		X			X				TCLP Metals Ag As Ba Cd Cr Pb Se Hg
	7	FS-7 (4.0')		1/4/2024		X			X				TCLP Volatiles
	8	FS-8 (4.0')		1/4/2024		X			X				TCLP Semi Volatiles
	9	FS-9 (4.0')		1/4/2024		X			X				RCI
	10	FS-10 (4.0')		1/4/2024		X			X				GC/MS Vol. 8260B / 624
													GC/MS Semi. Vol. 8270C/625
													PCB's 8082 / 608
													NORM
													PLM (Asbestos)
													Chloride
													Chloride Sulfate TDS
													General Water Chemistry (see attached list)
													Anion/Cation Balance

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY

Sample Temperature

-3.3°C

#140

REMARKS: Standard TAT

☒ RUSH: Same Day 24 hr ☒ 48 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

Tetra Tech, Inc.



901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

Received by: 4/22/2024 10:37:46 PM

Maverick Natural Resources

Site Manager:

Chuck Terhune

Name:

EVGSAU 3366-29 Flowline Release

281-755-8965

Location:

Lea County, NM

Project #:

212C-MD-03313

State:

Attn: Chuck Terhune

Laboratory:

Cardinal Labs

Sampler Signature:

Jorge Fernandez

Is:

SAMPLE IDENTIFICATION

37:46 PM

I #	H340044	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
			YEAR: 2023	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE		
11			1/4/2024			X			X			
12			1/4/2024			X			X			
13			1/4/2024			X			X			
14			1/4/2024			X			X			
15			1/4/2024			X			X			
16			1/4/2024			X			X			

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	

REMARKS: Standard TAT

LAB USE ONLY

Sample Temperature

-3.30c

☒ RUSH: Same Day 24 hr 48 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

#1440



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

January 15, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU 3366-029 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/11/24 11:45.

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 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2024	Sampling Date:	01/10/2024
Reported:	01/15/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 19 (4.0') (H240122-01)

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	01/11/2024	ND	2.00	99.8	2.00	4.12	
Toluene*	<0.050	0.050	01/11/2024	ND	2.10	105	2.00	3.21	
Ethylbenzene*	<0.050	0.050	01/11/2024	ND	2.11	106	2.00	3.46	
Total Xylenes*	<0.150	0.150	01/11/2024	ND	6.35	106	6.00	2.98	
Total BTX	<0.300	0.300	01/11/2024	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	3920	16.0	01/11/2024	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	01/11/2024	ND	199	99.7	200	0.331	
DRO >C10-C28*	20.0	10.0	01/11/2024	ND	200	100	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/11/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2024	Sampling Date:	01/10/2024
Reported:	01/15/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 7 (H240122-02)

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	01/11/2024	ND	2.00	99.8	2.00	4.12	
Toluene*	<0.050	0.050	01/11/2024	ND	2.10	105	2.00	3.21	
Ethylbenzene*	<0.050	0.050	01/11/2024	ND	2.11	106	2.00	3.46	
Total Xylenes*	<0.150	0.150	01/11/2024	ND	6.35	106	6.00	2.98	
Total BTEX	<0.300	0.300	01/11/2024	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	272	16.0	01/11/2024	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	01/11/2024	ND	199	99.7	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/11/2024	ND	200	100	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/11/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/11/2024	Sampling Date:	01/10/2024
Reported:	01/15/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 8 (H240122-03)

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	01/11/2024	ND	2.00	99.8	2.00	4.12	
Toluene*	<0.050	0.050	01/11/2024	ND	2.10	105	2.00	3.21	
Ethylbenzene*	<0.050	0.050	01/11/2024	ND	2.11	106	2.00	3.46	
Total Xylenes*	<0.150	0.150	01/11/2024	ND	6.35	106	6.00	2.98	
Total BTEX	<0.300	0.300	01/11/2024	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	448	16.0	01/11/2024	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	01/11/2024	ND	199	99.7	200	0.331	
DRO >C10-C28*	<10.0	10.0	01/11/2024	ND	200	100	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	01/11/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.0 % 49.1-148

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*=Accredited Analyte

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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



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

January 16, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU 3366-029 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/15/24 11:24.

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 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 15 (4.0') (H240158-01)

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	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	896	16.0	01/15/2024	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	01/15/2024	ND	178	88.9	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	163	81.7	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 16 (4.0') (H240158-02)

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	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	864	16.0	01/15/2024	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	01/15/2024	ND	178	88.9	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	163	81.7	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 17 (4.0') (H240158-03)

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	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	2720	16.0	01/15/2024	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	01/15/2024	ND	178	88.9	200	3.49	
DRO >C10-C28*	22.4	10.0	01/15/2024	ND	163	81.7	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 18 (4.0') (H240158-04)

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	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	1880	16.0	01/15/2024	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	01/15/2024	ND	178	88.9	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	163	81.7	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 3 (H240158-05)

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	01/15/2024	ND	2.05	102	2.00	3.29		
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45		
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58		
Total BTEX	<0.300	0.300	01/15/2024	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	272	16.0	01/15/2024	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	01/15/2024	ND	178	88.9	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	163	81.7	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 4 (H240158-06)

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	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	688	16.0	01/15/2024	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	01/15/2024	ND	178	88.9	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	163	81.7	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 5 (H240158-07)

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	01/15/2024	ND	2.05	102	2.00	3.29		
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45		
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58		
Total BTEX	<0.300	0.300	01/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	256	16.0	01/15/2024	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	01/16/2024	ND	178	88.9	200	3.49	
DRO >C10-C28*	<10.0	10.0	01/16/2024	ND	163	81.7	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	01/16/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 6 (H240158-08)

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	01/15/2024	ND	2.05	102	2.00	3.29		
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00		
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45		
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58		
Total BTEX	<0.300	0.300	01/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	01/15/2024	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	01/15/2024	ND	176	88.0	200	4.03	
DRO >C10-C28*	13.6	10.0	01/15/2024	ND	166	82.9	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/15/2024	Sampling Date:	01/12/2024
Reported:	01/16/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 9 (H240158-09)

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	01/15/2024	ND	2.05	102	2.00	3.29	
Toluene*	<0.050	0.050	01/15/2024	ND	2.05	102	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/15/2024	ND	2.06	103	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/15/2024	ND	6.09	102	6.00	2.58	
Total BTEX	<0.300	0.300	01/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	96.0	16.0	01/15/2024	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	01/15/2024	ND	176	88.0	200	4.03	
DRO >C10-C28*	<10.0	10.0	01/15/2024	ND	166	82.9	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	01/15/2024	ND					

Surrogate: 1-Chlorooctane 82.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 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

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 882-4559
Fax (432) 882-3848

Client Name: Maverick Natural Resources

Site Manager: Chuck Terhune

Project Name: EVGSAU 3366-29 Flowline Release

281-755-8965

Project Location: Lea County, NM

Project #:

chuck.terhune@tetratech.com

Project Location: (county, state)

212C-MD-03313

Invoice to: Attn: Chuck Terhune

Receiving Laboratory: Cardinal Labs

Sampler Signature: Jorge Fernandez

Comments:

SAMPLE IDENTIFICATION

LAB #
H240158
(LAB USE ONLY)

		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃		
1	FS-15 (4.0')	1/12/2024		X			X		
2	FS-16 (4.0')	1/12/2024		X			X		
3	FS-17 (4.0')	1/12/2024		X			X		
4	FS-18 (4.0')	1/12/2024		X			X		
5	SW-3	1/12/2024		X			X		
6	SW-4	1/12/2024		X			X		
7	SW-5	1/12/2024		X			X		
8	SW-6	1/12/2024		X			X		
9	SW-9	1/12/2024		X			X		

Relinquished by: Date: 1-14-24 Time: 1847

Relinquished by: Date: 1-15-24 Time: 1123

Relinquished by: Date: 1-15-24 Time: 1123

Received by: Date: 1-14-24 Time: 1850

Received by: Date: 1-15-24 Time: 1124

Received by: Date: 1-15-24 Time: 1124

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B	
TPH TX1005 (Ext to C35)		
TPH 8015M (GRO - DRO - ORO - MRO)		
PAH 8270C		
Total Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Volatiles		
TCLP Semi Volatiles		
RCI		
GC/MS Vol. 8260B / 624		
GC/MS Semi. Vol. 8270C/625		
PCB's 8082 / 608		
NORM		
PLM (Asbestos)		
Chloride		
Chloride Sulfate TDS		
General Water Chemistry (see attached list)		
Anion/Cation Balance		
Hold		

LAB USE ONLY

REMARKS: Standard TAT

Sample Temperature

-0.1°C

#140

- ☒ 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



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

January 19, 2024

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: EVGSAU 3366-029 FLOWLINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/18/24 13:04.

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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/18/2024	Sampling Date:	01/18/2024
Reported:	01/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 4 (H240215-01)

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	01/18/2024	ND	2.14	107	2.00	11.0	
Toluene*	<0.050	0.050	01/18/2024	ND	2.16	108	2.00	6.37	
Ethylbenzene*	<0.050	0.050	01/18/2024	ND	2.22	111	2.00	8.56	
Total Xylenes*	<0.150	0.150	01/18/2024	ND	6.60	110	6.00	8.99	
Total BTX	<0.300	0.300	01/18/2024	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	144	16.0	01/18/2024	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	01/18/2024	ND	190	95.0	200	2.91	
DRO >C10-C28*	<10.0	10.0	01/18/2024	ND	179	89.5	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/18/2024	ND					

Surrogate: 1-Chlorooctane 113 % 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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/18/2024	Sampling Date:	01/18/2024
Reported:	01/19/2024	Sampling Type:	Soil
Project Name:	EVGSAU 3366-029 FLOWLINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03313	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SW - 6 (H240215-02)

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	01/18/2024	ND	2.14	107	2.00	11.0		
Toluene*	<0.050	0.050	01/18/2024	ND	2.16	108	2.00	6.37		
Ethylbenzene*	<0.050	0.050	01/18/2024	ND	2.22	111	2.00	8.56		
Total Xylenes*	<0.150	0.150	01/18/2024	ND	6.60	110	6.00	8.99		
Total BTEX	<0.300	0.300	01/18/2024	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	128	16.0	01/19/2024	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	01/18/2024	ND	190	95.0	200	2.91	
DRO >C10-C28*	<10.0	10.0	01/18/2024	ND	179	89.5	200	2.15	
EXT DRO >C28-C36	<10.0	10.0	01/18/2024	ND					

Surrogate: 1-Chlorooctane 109 % 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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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 "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Tetra Tech, Inc.

901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

[illegible]

Remediation Report and Closure Report
Maverick Permian, LLC
EVGSAU 3366-029 Flowline Release
Incident IDs: nJXK1609752883 and nPRS0420835421

March 25, 2024

ATTACHMENT 6 – ARMS REVIEW LETTER



7770 Jefferson Street NE, Suite 410
Albuquerque, New Mexico 87109
Tel 505.254.1115 Fax 505.254.1116
www.swca.com

October 4, 2023

TO: Ethan Ortega, Division Director & Archaeologist, New Mexico State Land Office, Santa Fe, New Mexico

FROM: SWCA Environmental Consultants

SUBJECT: Completion of an Archaeological Records Management Section (ARMS) Review for the EVGSAU 3366-029 Flowline Inadvertent Release Project on New Mexico State Land Office (NMSLO) lands in Lea County, NM

Company Ref No: None-Provided

PROJECT DESCRIPTION:

Tetra Tech, Inc. has requested that SWCA Environmental Consultants (SWCA) conduct an Archaeological Resources Management Section (ARMS) review for an inadvertent release in Lea County, New Mexico. The proposed project is located on lands managed by the New Mexico State Land Office (NMSLO) approximately 20.1 kilometers (12.5 miles) southwest of Lovington, NM in T17S R35E, Section 33.

A literature and file search were conducted on September 22, 2023, using the New Mexico Cultural Resources Information System online database which included a review of known cultural resources, such as the built environment, archaeological sites, and State/National Register listed properties. Other sources reviewed include the BLM GLO Records web site, <http://www.glorerecords.blm.gov>, which include land patent and general land office survey data. As this area was not settled by Spain, land grant records were not reviewed. The review was conducted for the Area of Potential Effects (APE) and 1 km surrounding the APE. The land the proposed project is located on is part of the June 21, 1898: New Mexico Territorial Grant (30 Stat. 484) patented on May 26, 1909.

Recommendation:

The project area and surrounding 1 km have been subject to four (4) cultural resource surveys, two (2) of which are qualifying. One previously recorded site (LA 179703) is located outside of the project area but within the 1k search buffer. The project area is entirely located on NMSLO-managed lands and is completely covered by one (1) qualifying survey conducted within the last ten years (NMCRIS 131135). All remediation work will remain within the previously qualifying survey area. SWCA recommends the completion of an ARMS letter to satisfy the requirements for release remediation. If cultural materials are identified during ground disturbing activities, work must stop and the NMSLO must be contacted.

Information regarding the findings can be found in Tables 1-2 and Figure 1.

Archaeologist
Paisley DeFreese
Attached: (1) Review Results, (1) ARMS Map



ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®

7770 Jefferson Street NE, Suite 410
 Albuquerque, New Mexico 87109
 Tel 505.254.1115 Fax 505.254.1116
 www.swca.com

Archaeological Resources Management Section (ARMS) Review Results

Table 1. Cultural surveys within 1 km (0.62 miles) of the proposed project area.

NMCRIS No.	Performing Organization	Date of Investigation	Acres Surveyed	Sites Visited
23638	Agency for Conservation Archaeology Eastern New Mexico University	8/9/1988	222.82	4
78253	San Juan County Museum Association Division of Conservation Archaeology	6/5/2001	0.83	0
131135	Lone Mountain Archaeological Services	7/11/2014	890.58	3
151899	Lone Mountain Archaeological Services	11/29/2022	15.80	0

Table 2. Cultural resources within 1 km (0.62 miles) of the proposed project area.

LA No.	Discovering NMCRIS No.	Site Type/Cultural Affiliation and Age	Eligibility	Relationship to APE
179703	131135	Artifact scatter with features/ Unknown Historic (A.D. 1550–1970)	Not Evaluated by SHPO	Outside

Information regarding the findings can be found in Tables 1-2 and Figure 1.

Archaeologist

Paisley DeFreese

Attached: (1) Review Results, (1) ARMS Map

Information regarding the findings can be found in Tables 1-2 and Figure 1.

Archaeologist

Paisley DeFreese

Attached: (1) Review Results, (1) ARMS Map

Information regarding the findings can be found in Tables 1-2 and Figure 1.

Archaeologist

Paisley DeFreese

Attached: (1) Review Results, (1) ARMS Map



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*Redacted

Figure 2. NMCRIS screenshot showing the location of the EVGSAI 3366-029 Flowline inadvertent release location (blue square) with a 1-km (0.62-mile) buffer area (blue circle). Previously conducted investigations are brown and yellow polygons, and previously recorded sites are tan polygons.

← LA 179703

Remediation Report and Closure Report
Maverick Permian, LLC
EVGSAU 3366-029 Flowline Release
Incident IDs: nJXK1609752883 and nPRS0420835421

March 25, 2024

ATTACHMENT 7 – PHOTOGRAPHIC DOCUMENTATION



TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View southeast. Initial spill assessment	1
	SITE NAME	EVGSAU 3366-029 Flowline Release	04/08/2016



TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View east. Initial spill assessment	2
	SITE NAME	EVGSAU 3366-029 Flowline Release	04/08/2016



TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View north. Initial spill assessment	3
	SITE NAME	EVGSAU 3366-029 Flowline Release	04/08/2016



TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View west. Initial spill assessment	4
	SITE NAME	EVGSAU 3366-029 Flowline Release	04/08/2016



Jan 28, 2019 at 16:08:42
Lovington NM 88260
United States

TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View northwest. Area of western portion of excavation.	5
	SITE NAME	EVGSAU 3366-029 Flowline Release	1/28/2019



Jan 25, 2019 at 10:47:54
Lovington NM 88260
United States

TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View west. Area of central portion of excavation.	6
	SITE NAME	EVGSAU 3366-029 Flowline Release	1/25/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View east. Area of central portion of excavation.	7
	SITE NAME	EVGSAU 3366-029 Flowline Release	1/29/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View southeast. Area of eastern portion of excavation.	8
	SITE NAME	EVGSAU 3366-029 Flowline Release	1/29/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View northwest. Input of liner into excavation.	9
	SITE NAME	EVGSAU 3366-029 Flowline Release	2/21/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View north. Placement of liner into excavation.	10
	SITE NAME	EVGSAU 3366-029 Flowline Release	2/21/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View northwest. Backfill of western portion of excavation.	11
	SITE NAME	EVGSAU 3366-029 Flowline Release	2/21/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View southeast. Backfill of central portion of excavation.	12
	SITE NAME	EVGSAU 3366-029 Flowline Release	2/21/2019



TETRA TECH, INC. PROJECT NO. 212C-MD-02426	DESCRIPTION	View northwest. Backfill of eastern portion of excavation.	13
	SITE NAME	EVGSAU 3366-029 Flowline Release	2/21/2019



☉ 81°E (T) LAT: 32.793034 LON: -103.470367 ±4m ▲ 1201m



Site Remediation
Tetra Tech

Maverick- EVCSAU 3366
Jan 12 2024, 15:12:33 MST

SE

S

SW

W

120

150

180

210

240

270

300

☀ 207°SW (T) LAT: 32.793135 LON: -103.470200 ±4m ▲ 1199m



Site Remediation
Tetra Tech

Maverick- EVCSAU 3366
Jan 12 2024, 15:13:05 MST

E

SE

S

SW

90

120

150

180

210

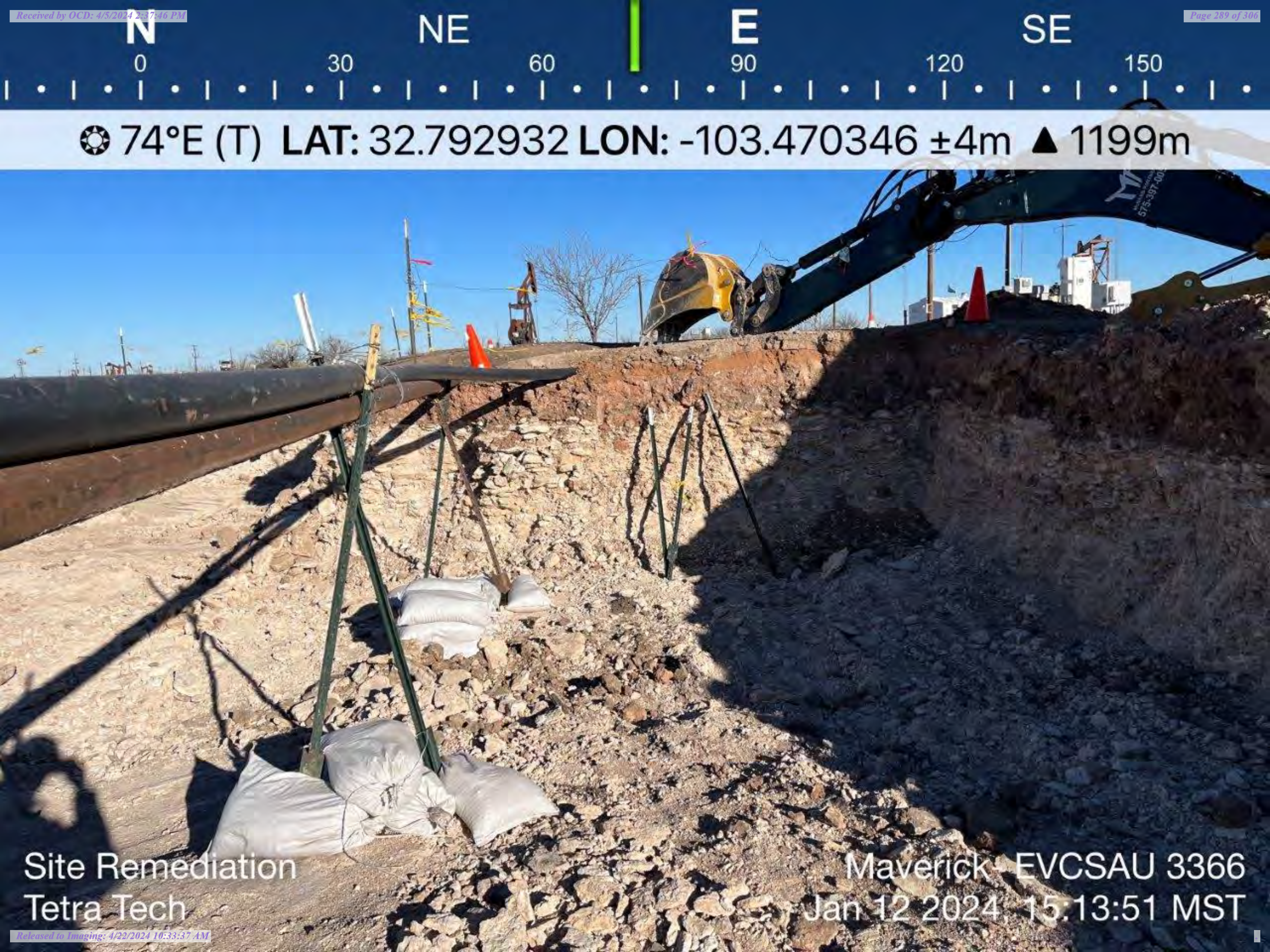
240

☀ 166°S (T) LAT: 32.793121 LON: -103.470205 ±4m ▲ 1199m



Site Remediation
Tetra Tech

Maverick-EVCSAU 3366
Jan 12 2024, 15:13:10 MST



N

NE

E

SE

0

30

60

90

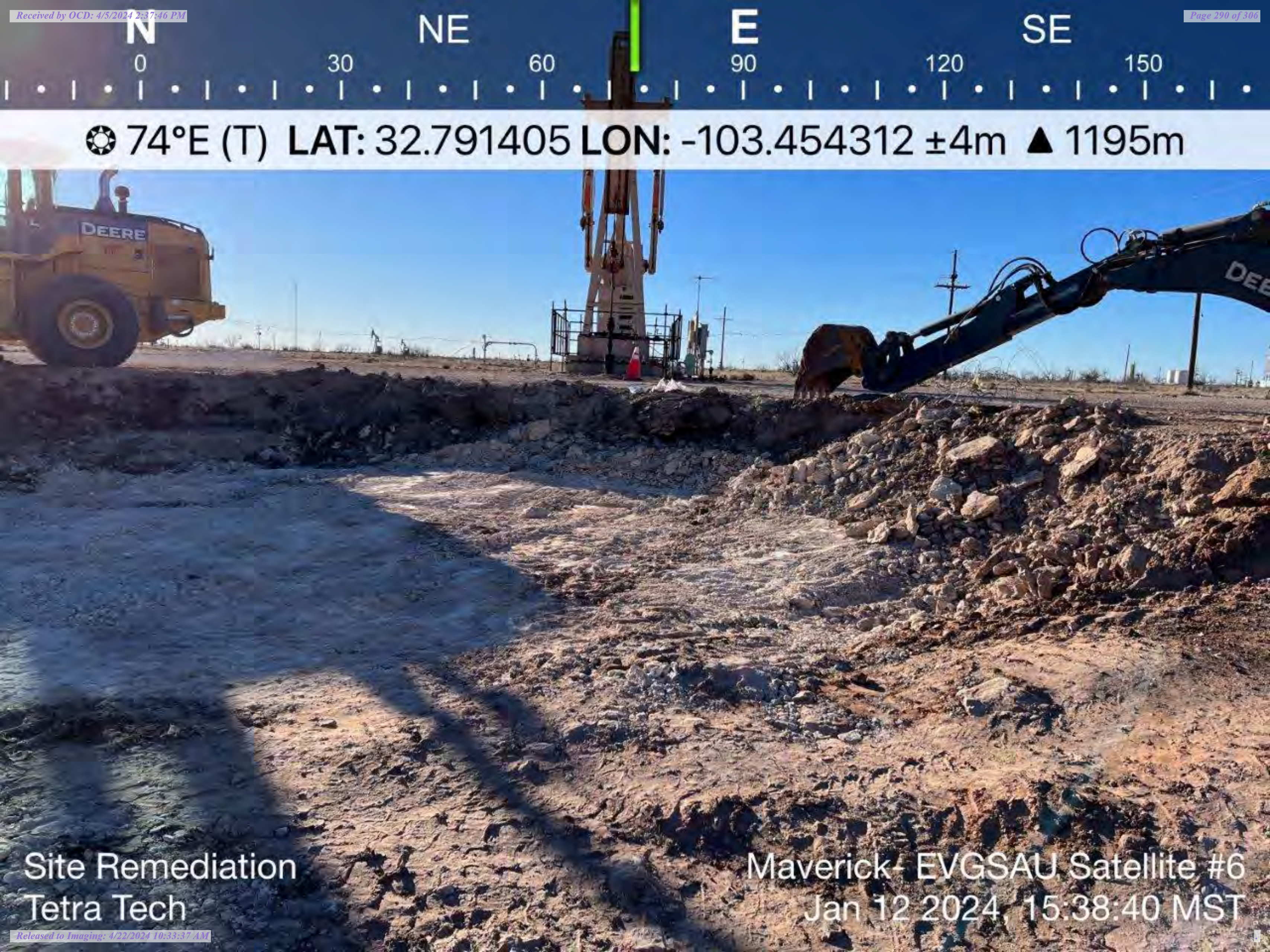
120

150

☉ 74°E (T) LAT: 32.792932 LON: -103.470346 ±4m ▲ 1199m

Site Remediation
Tetra Tech

Maverick - EVCSAU 3366
Jan 12 2024, 15:13:51 MST



☉ 74°E (T) LAT: 32.791405 LON: -103.454312 ±4m ▲ 1195m

Site Remediation
Tetra Tech

Maverick- EVGSAU Satellite #6
Jan 12 2024, 15:38:40 MST

SE

S

SW

W

120

150

180

210

240

270

☀ 203°SW (T) LAT: 32.793154 LON: -103.470211 ±3m ▲ 1205m



Site Remediation
Tetra Tech

Maverick- EVGSAU 3366
Jan 24 2024, 09:10:26 MST

E

SE

S

SW

90

120

150

180

210

240

☉ 156°SE (T) LAT: 32.793142 LON: -103.470335 ±4m ▲ 1204m



Site Remediation
Tetra Tech

Maverick- EVGSAU 3366
Jan 24 2024, 09:10:43 MST



☉ 109°E (T) **LAT: 32.793030 LON: -103.470509 ±4m ▲ 1205m**



Site Remediation
Tetra Tech

Maverick- EVGSAU 3366
Jan 24 2024, 09:11:05 MST



☉ 83°E (T) **LAT: 32.792952 LON: -103.470526 ±4m ▲ 1205m**



Site Remediation
Tetra Tech

Maverick- EVGSAU 3366
Jan 24 2024, 09:11:20 MST

Remediation Report and Closure Report
Maverick Permian, LLC
EVGSAU 3366-029 Flowline Release
Incident IDs: nJXK1609752883 and nPRS0420835421

March 25, 2024

ATTACHMENT 8 – NMSLO SEED MIXTURE

NMSLO Seed Mix**Sandy (S)****SANDY (S) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	2.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Black grama	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	4.0	S
Plains bristlegrass	VNS, Southern	2.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
Shrubs:			
Fourwing Saltbush	VNS, Southern	1.0	F
Total PLS/acre		16.0	

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>.



SLO Seed Mix

SM Series

3 REVEGETATION PLANS & SEEDING

The following Revegetation Plans were developed for revegetation of sites in southeastern New Mexico. To determine which revegetation plan is appropriate follow procedures in the section titled Determining the Revegetation Plan.

Revegetation Plans contain seed mixtures, as well as seed bed preparation and planting requirements. The detailed instructions for seedbed preparation and planting can be found in the section Revegetation Techniques.

Table 3 - Revegetation Plans, Codes, and Soil Types for Southeastern New Mexico

REVEGETATION PLANS	CODE	SOIL TEXTURES
Clay	C	Clay, Silty Clay, Stony Silty Clay, Clay Loam, Silty Clay Loam (including saline and sodic Clay soils)
Loam	L	Silty Loam, Cobbly Silt Loam, Stony Silt Loam, Silt, Loam, Sandy, Clay Loam
Sandy Loam	SL	Very Fine Sandy Loam, Fine Sandy Loam, Cobbly Fine Sandy Loam, Sandy Loam, Cobbly Sandy Loam, Gravelly Fine Sandy Loam, Very Gravelly Fine Sand Loam, Stony Fine Sandy Loam, Stony Sandy Loam
Gypsum	LG	
Shallow	SH	Rocky Loam, Cobbly Loam
Course	CS	Gravelly Loam, very Gravelly Loam, Gravelly Sandy Loam, Very Gravelly Sandy Loam, Stony Loam, Stony Sandy Loam
Sandy	S	Loamy Fine Sand, Loam Sand, Very Gravelly Loamy Fine Sand
Blow Sand	BS	Fine Sand, Sand, Coarse Sand
Mountain Meadow	MM	Clay, Loam
Mountain Upland	MU	Clay Loam, Loam



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

Action 330601

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	330601
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nJXK1609752883
Incident Name	NJXK1609752883 EVGGS AU 3366-029 @ 30-025-02987
Incident Type	Produced Water Release
Incident Status	Reclamation Report Approved
Incident Well	[30-025-02987] EAST VACUUM (GSA) UNIT #029

Location of Release Source	
Please answer all the questions in this group.	
Site Name	EVGGS AU 3366-029
Date Release Discovered	04/04/2016
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
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	No
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: Equipment Failure Flow Line - Production Crude Oil Released: 10 BBL Recovered: 5 BBL Lost: 5 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 6 BBL Recovered: 5 BBL Lost: 1 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)	Not answered.

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 2

Action 330601

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	330601
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: 04/05/2024
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QUESTIONS, Page 3

Action 330601

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number: 330601
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

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)	Between 51 and 75 (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 1 and 5 (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	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (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	Low
A 100-year floodplain	Greater than 5 (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)	8480
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	745
GRO+DRO	(EPA SW-846 Method 8015M)	432
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
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	12/18/2023
On what date will (or did) the final sampling or liner inspection occur	01/18/2024
On what date will (or was) the remediation complete(d)	01/19/2024
What is the estimated surface area (in square feet) that will be reclaimed	4700
What is the estimated volume (in cubic yards) that will be reclaimed	1004
What is the estimated surface area (in square feet) that will be remediated	4700
What is the estimated volume (in cubic yards) that will be remediated	1004

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 330601

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	330601
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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	No
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 Email: chuck.terhune@tetrattech.com Date: 04/05/2024
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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.

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QUESTIONS, Page 5

Action 330601

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 330601
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 330601

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number: 330601
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	326132
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/18/2024
What was the (estimated) number of samples that were to be gathered	2
What was the sampling surface area in square feet	400

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	4700
What was the total volume (cubic yards) remediated	1004
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	4700
What was the total volume (in cubic yards) reclaimed	1004
Summarize any additional remediation activities not included by answers (above)	his is a historical release with a history of multiple rounds of assessments and remediation for two incidents. Additional details are provided in the Remediation Report and Closure Request attached to this C-141 Submission.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Chuck Terhune Email: chuck.terhune@tetrattech.com Date: 04/05/2024
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QUESTIONS, Page 7

Action 330601

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	330601
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS**Reclamation Report**

Only answer the questions in this group if all reclamation steps have been completed.

Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	4700
What was the total volume of replacement material (in cubic yards) for this site	1004

Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.

Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseedling commence(d)	01/22/2024

Summarize any additional reclamation activities not included by answers (above)	Graded and contoured the area back to match the surrounding area after backfilling with clean soil sourced from nearby pits. The area was subsequently seeded with NMSLO seed mix for the appropriate soil type. The Area will be monitored for revegetation and the revegetation report will be submitted once complete.
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The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseedling plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Chuck Terhune Email: chuck.terhune@tetrattech.com Date: 04/05/2024
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QUESTIONS, Page 8

Action 330601

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 330601
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 330601

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	330601
Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Reclamation approved.	4/22/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	4/22/2024
amaxwell	OR Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	4/22/2024
amaxwell	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	4/22/2024