TETRA TECH

October 11, 2024

District Supervisor
Oil Conservation Division, District 2
506 W. Texas Ave.
Artesia, New Mexico 88210

Re: Release Characterization and Remediation Work Plan - Addendum #2
ConocoPhillips (COG Operating LLC)
Seabiscuit Federal Com #002H Flowline Release
Unit Letter E, Section 7, Township 24 South, Range 32 East
Lea County, New Mexico
Incident ID NRM2013962666

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess and evaluate a release that occurred from a flowline associated with the Seabiscuit Federal Com #002H (API # 30-015-37607). The release footprint is located in Public Land Survey System (PLSS) Unit Letter E, Section 7, Township 24 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.232518°, -103.720655° as shown on Figures 1 and 2.

RELEASE BACKGROUND

According to the State of New Mexico C-141 Initial Report, the release was discovered on May 2, 2020, and released approximately 100 barrels of produced water due to a ruptured transfer pump flowline. None of the produced water was reported recovered. The release in the pasture impacted an area measuring approximately 525' x 35'. The release occurred along a right-of-way impacting areas occupied with surface flowlines, an underground Centurion pipeline, a DCP gas pipeline, and an underground NGL/Mesquite (NGL) water line. The C-141 was submitted to the NMOCD and assigned the Incident ID nRM2013962666. The C-141 form is included in Appendix A.

WORK PLAN SUBMITTED AND APPROVED

On November 2, 2020, Tetra Tech, on behalf of COP's predecessor-in-interest ("COG"), submitted a Release Characterization and Remediation Work Plan (WP), which was subsequently approved by NMOCD on March 30, 2021. The signed C-141 is available on the OCD imaging database. Based on email correspondence between COP and BLM on April 5, 2022, the BLM approved the WP as written. Associated correspondence is included in Appendix C.

ADDENDUM #1 TO THE WORK PLAN - REJECTED

An Addendum #1 to the Work Plan was prepared and submitted to NMOCD and to BLM to document newly obtained site information and safety issues related to the remediation and reclamation of this site. The Addendum #1 was rejected by Shelly Wells of the NMOCD on March 14, 2024, with the following comments:

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Remediation plan denied. As COG OPERATING LLC (229137) is responsible for the remediation, reclamation, and revegetation of this release, it is the responsible party's duty to include letters from the pipeline operators who are requesting a buffer zone around their pipelines to take responsibility for any contamination left in place due to their buffer zone request. If the pipeline operators are unwilling to take responsibility for the contamination located within their requested buffer zones, the responsible party will be required to remediate, reclaim, and revegetate the release pursuant to 19.15.29 NMAC. Furthermore, pursuant to 19.15.29.7C NMAC, OCD may consider a person causing the release or controlling the location of the release as the responsible party. If any pipeline operator refuses to allow the remediation, reclamation, and revegetation of this release, please include the refusal in writing. OCD reserves the right to hold the pipeline operator as the responsible party. Variance request is denied. OCD will no longer approve liner installations for contaminant mitigation. Resubmit remediation plan to the OCD by 5/13/24.

Based on the NMOCD correspondence, the site characterization has been approved. Based on the rejection, additional work has been completed to correspond with the pipeline operators and their representatives. Furthermore, COP has refined the remedial action based on the correspondence. This Addendum #2 will outline the Site, current conditions, and the associated hazards and discuss the refined remedy.

LAND OWNERSHIP AND MULTIPLE EASEMENTS

The Site is located on land owned by the Bureau of Land Management (BLM). Shelly Tucker, BLM, via email on April 5, 2022, provided detailed notes and stipulations (Appendix C). In that communication, BLM stated the following (emphasis and formatting copied from the email):

1. The point of release occurred **within multiple ROW easements** which are **covered under a previous survey**, *no additional archeological surveys* will be required, and
2. The release **did not impact any known archaeological area.**

There are multiple ROW easements which transect the release area, including easements associated with DCP, Centurion, and NGL for underground pipelines that run through the site. The DCP and Centurion pipelines are operating pressurized gas lines, and the NGL pipeline currently transports produced water to their nearby disposal well.

Tetra Tech, along with COP, has had multiple interactions with the underground pipeline representatives, and serious safety concerns from COP, as well as the pipeline companies themselves, have necessitated that additional, prescribed, site investigation work along those pipelines be performed to determine the minimum amount of land that would have to be disturbed to protect those pipelines and to mitigate any risk of impact during site work.

There are also multiple surface flowlines that cover a significant portion of the impacted release area footprint. Through further investigation, it was determined that 3 of these surface lines, which are black poly lines, are owned by COP. One of the black poly lines has been truncated south of the project area. There are also two white poly surface lines, which are not owned by COP, and which have also been truncated south of the project area.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, stream bodies, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within ½ mile (800 meters) of the Site. The nearest water well listed on the NMOSE database is approximately 2 miles northeast of the site and has a reported depth to groundwater of 380 feet below ground surface (bgs). The site characterization data is shown in Appendix B.

DTW DETERMINATION

On August 5, 2020, a licensed drilling contractor was onsite to drill a depth to water (DTW) borehole to 55' bgs, approximately 155 feet northwest of the release location. The borehole was left open for 72 hours and gauged with a water level meter. The borehole was dry upon completion, and soils were dry from surface to total depth. The depth to groundwater in the area was thus verified as greater than 55 feet bgs. The coordinates for this initial DTW borehole are 32.232453°, -103.721112°, and the boring location is shown in Figure 4. See Appendix B for the driller's log. This DTW determination was submitted with the previous Work Plan.

To better ascertain the actual depth to groundwater in this release vicinity, COP elected to drill a deeper DTW boring to a depth of 105' bgs. Access issues from newly installed production lines prevented drilling rig access at or very close to, the Seabiscuit Federal Com #002 release site footprint. An alternate location was selected at a nearby COP lease pad to install the DTW borehole. Prior to drilling, the BLM was contacted to obtain landowner approval and a WD-07 (and accompanying WD-08) permit application was submitted to the NMOSE. The BLM provided approval and the approved permit was received from NMOSE. Furthermore, the NMOCD was contacted to install the new DTW borehole near the site at coordinates 32.223815°, -103.724119°. The NMOCD approved this location at approximately 0.6 miles SSW of the release location and the location is shown on Figure 4. The New Mexico Office of the State Engineer (NMOSE) groundwater permit documentation is presented in Appendix B.

On April 6, 2023, a licensed drilling subcontractor was contracted to a drill a borehole to 105 ft bgs to determine DTW as part of the characterization associated with the NRM2013962666 incident. The borehole was left open for approximately 72 hours, at which point Tetra Tech personnel returned to the DTW borehole and measured groundwater at 85 feet bgs. The borehole was plugged in accordance with the approved NMOSE Plugging Plan. See Appendix B for the driller's log.

REGULATORY FRAMEWORK

Based upon the release footprint 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 xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the proposed RRALs for the Site are as follows:

Constituent	RRALs
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 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)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

INITIAL ASSESSMENT AND WORK PLAN (2020)

On August 6 and August 12, 2020, Tetra Tech personnel (on behalf of COG) were onsite to evaluate and sample the release area. A total of six (6) vertical boreholes (BH-1 through BH-6) were installed on August 6, 2020. A total of eleven (11) soil samples were collected from 11 locations (H-1 through H-11) on August 12 to horizontally delineate the area. The results of this initial assessment are provided in Table 1. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D. Additionally, as previously mentioned, a DTW borehole was drilled in the project area. Assessment locations are indicated in Figure 3.

ADDITIONAL SITE ASSESSMENT AND SITE SAFETY CONCERNS

Tetra Tech performed additional site assessment activities in July and November of 2022. The purpose of these assessment activities was to acquire additional site data, obtain more accurate field measurements of site features and utilities, and to assess site hazards and accessibility for remediation.

The July 2022 assessment was focused on delineating impacts in proximity to the underground utility lines that run through the site. The November 2022 assessment consisted of installing nine trenches to better define the extent of impact in several areas.

PIPELINE SITE ASSESSMENT ACTIVITIES AND RESULTS (JULY 2022)

Based on concerns about the potential risk to underground pipelines and surface lines, as well as the site complexities and safety concerns, COP elected to assess the impacted soils at the subsurface pipelines and determine the pipeline depths. The assessment plan included collecting samples every 50 feet along the three (3) underground pipelines, and then stepping out 4 feet west or 4 feet east from the lines to collect additional samples to assess and refine the extent of impact.

A total of 38 soil samples were collected from the sample locations and transferred under chain of custody and analyzed within appropriate holding times by Cardinal Laboratories (Cardinal). The soil samples were analyzed for TPH via Method 8015 Modified, chloride via Method SM4500Cl-B, and BTEX via Method 8021B. The samples results are summarized in Table 2. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

CENTURION GAS PIPELINE – (PIPELINE DEPTH 8-9' BGS – 12-INCH LINE))

Samples from pipeline (PL) locations PL-1 and PL-2, and corresponding step-out samples (PL-1W) were collected at the Centurion Gas pipeline ROW location. As indicated in Table 2, analytical results associated with surface samples (0-1') atop the line were below reclamation standards. The result associated with sample PL-2W (step-out), however, exhibited a chloride concentration (13,200 mg/kg) exceeding the reclamation requirement. Pipeline sample locations are shown in Figures 5A and 5B.

MESQUITE/ NGL WATER SOLUTIONS PIPELINE (PIPELINE DEPTH 1-2' BGS – 16-INCH LINE POLY LINE)

Samples from locations PL-3 through PL-13 and corresponding step-out samples were collected above and along the NGL pipeline ROW. As indicated in Table 2, analytical results from all surface samples (0-1') atop the pipeline were below reclamation standards, except for PL-8 (1,470 mg/kg), PL-11 (5,440 mg/kg) and PL-12 (1,550 mg/kg). Results associated with the PL-10E step-out (1,010 mg/kg) exceeded the chloride reclamation requirement. Pipeline sample locations are shown in Figures 5A and 5B.

DCP GAS PIPELINE (PIPELINE DEPTH 4' BGS – 8-INCH LINE)

Samples from locations above and along the DCP pipeline (PL-14 through PL-24) were collected and corresponding step-out samples were taken to the west or east. As indicated in Table 2, the majority of samples collected from atop the line (0-1' and 2-3') exceeded reclamation standards, with results ranging

from 608 mg/kg to 4,160 mg/kg. The step-outs ranged from 624 mg/kg to 4,960 mg/kg. Pipeline sample locations are shown in Figures 5A and 5B.

PIPELINE OWNER/OPERATOR CORRESPONDENCE

The analytical data obtained for samples collected along the NGL and DCP pipelines were provided to those companies, as respectively requested. The analytical data is included within Table 2. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

Subsequent communications were held with those company representatives to discuss the release extent, the planned remediation extent based on the approved Work Plan, and the refined areas delineated by this most recent investigation. Due to the shallow depth of these pipelines, and the significant impact that could occur if these pipelines were damaged, COP and Tetra Tech had several communications with these companies regarding the planned remediation.

DCP Gas Pipeline (Pipeline Depth 4' bgs – 8-inch line)

Between August 17 and August 23, 2022, Tetra Tech corresponded with DCP pipeline representatives. DCP advised Tetra Tech, and confirmed via email on August 23, 2022, that excavation was not to occur within 4 feet of their pipeline. This email correspondence is provided in Appendix C.

Mesquite/ NGL Water Solutions Pipeline (Pipeline Depth 1-2' bgs – 16-inch line poly line)

Initial communications with Mesquite/NGL occurred in 2022. However, the ensuing correspondence with the pipeline operator was not fully captured in writing.

Additional communication was completed with Mesquite/NGL in 2024, and Jonathan Midgley, Senior Director DCC/Pipeline Operations clarified their requests. NGL requires a representative be present for mechanical digging within 10 ft of their pipeline. NGL also prohibited mechanical digging within 18 inches of the pipeline and stipulated that hydro-excavation must be used within 18 inches of their pipeline. This communication was documented by Tetra Tech via email to NGL (with response in writing) on August 22, 2024. This email correspondence is also provided in Appendix C.

ADDITIONAL SITE ASSESSMENT ACTIVITY AND RESULTS (NOVEMBER 2022)

The originally approved work plan was based on limited analytical data over a relatively large area. These additional site assessment activities (July and November 2022) allowed the impacted area to be better delineated. The assessment results from the July 2022 event provided much more detail on the horizontal extent of impacted soil along the underground utility lines. To verify the chloride analytical from the original borings detailed in the 2020 Work Plan (BH-1 through BH-6), and to supplement that data with additional sampling locations, COP requested Tetra Tech obtain additional chloride (and TPH) samples. Samples were obtained from locations as close as possible to the original boring locations BH-1 through BH-5 presented in the original work plan, and several additional sample locations were added as explained below. Since BH-6 only showed surficial impact at 0-1 ft. bgs, additional samples were not needed at that location.

In November 2022, Tetra Tech installed nine (9) backhoe trenches (TR-1 through TR-9) to accomplish this objective. McNabb mobilized a backhoe to the site. A total of twenty-seven (27) soil samples were collected and placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Cardinal Laboratories in Hobbs, New Mexico. The soil samples were analyzed for chloride (SM4500 CL-B), TPH (8015M), and BTEX (8021B). Soil sample locations, soil depth intervals, and laboratory analytical results for these samples are shown in Table 3. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

Five (5) trenches were installed in the vicinity of previous boreholes Four (4) additional trenches (TR-5 through TR-9) were installed to refine the depth of impacted soil in the other locations. The trench locations

are depicted in Figures 5A and 5B. The trenches corresponding to the original boring locations are as follows:

- TR-1 (BH-1)
- TR-6 (BH-2)
- TR-3 (BH-3)
- TR-8 (BH-4)
- TR-5 (BH-5)
- TR-9 (BH-6)

The results of the trench sampling verified the analytical data previously obtained in the borings BH-1 through BH-6, and also verified the depth of impacted soil in other locations (TR-2, TR-4, TR-6 and TR-7).

Based on the additional site assessment data obtained in the July and November 2022 soil sampling events, the horizontal, and in some cases vertical, extent of impacted soil has been better delineated. Based on the analytical data obtained through all investigations, the areas requiring remediation are shown in Figures 6A and 6B.

SITE HAZARDS AND REMEDIATION SAFETY CONSIDERATIONS

As demonstrated, significant site safety hazards exist at the site, which potentially impact the feasibility of safely completing the excavation of impacted soil on the site. These safety hazards include:

Restricted Site Access

The area around the release site has limited ingress/egress as described below:

- No paved shoulder or turn lane exists to facilitate truck traffic in and out of the site along a very busy and dangerous highway (Buck Jackson Road). Also, a large turn around area is needed to allow trucks to safely exit the site.

- Energized lines, including overhead power lines, are present along the highway, proximal to the areas of concern. Safety requirements regarding the overhead power lines are noted below.

- BLM has indicated that they will approve a staging area inside the fence, however, even with this additional staging area, access remains very limited because trucks and equipment will have to pass through a gate and heavy equipment will have to operate within the confines of the narrow easement.

Traffic Hazards

- The rate and speed at which vehicles and trucks traverse Buck Jackson Road are a potential risk to workers and equipment working within proximity to that traffic.

- The busy nature of this highway and the potential hazards associated with vehicles and equipment turning into and out of the site create potentially dangerous hazards to site contractors and to oncoming traffic.

Subsurface Utilities

- As previously discussed, DCP has indicated they want COP to maintain a 4-foot exclusion zone on either side of their respective pipelines. COP representatives have met with BLM, and they concur with the 4-foot exclusion zone. BLM also added the stipulation that excavation should be limited to the use of a bucket, and that no hammer attachment should be used to prevent vibrational damage to the subsurface pipelines.

- The Centurion high pressure gas pipelines are at the northern end of the site. The proposed shallow excavation in this area should not pose immediate risk, but Centurion permission will be needed to work within their easement.

Surface Flowlines

- The release area is located within a narrow easement area. Numerous operational surface flowlines, along with the overhead power lines, present logistical difficulties and safety hazards in staging equipment and materials and allowing movement within the easement.

- COP operates two surface flowlines that traverse the entirety of the release footprint and are proposed to be moved during the remediation work.

Overhead Power Lines

- The overhead power lines that run along the western side of Buck Jackson Road present a significant hazard to people and equipment operating in proximity. The presence of these overhead power lines limits the ability to use heavy equipment in the areas closest to those power lines.

- Safety requirements include maintaining a 10-foot exclusion zone between the overhead power lines and any operating equipment. This exclusion zone is indicated in Figures 6A and 6B.

Adjacent Pasture Fence

- This fence limits access and movement of equipment movement within the easement.

While COP and Tetra Tech have worked to identify and develop plans to mitigate these safety risks, mobilization should not occur until they can be adequately addressed and resolved. Some of the safety issues detailed above are evident in the photographic documentation from the site, included in Appendix E.

REVISED REMEDIATION WORK PLAN – ADDENDUM #2

The concerns regarding restrictions imposed by both the pipeline owners and BLM, safety requirements necessary to perform the work, and accessibility to the impacted area would have to be accommodated during the remediation effort. Based on the resolution and mitigation of the site hazards outlined previously, the scope of field work may have to be adjusted and is contingent upon the ability to safely execute the scope of work presented herein. Prior to commencing remedial activities, both NMOCD and BLM approvals are needed. BLM has provided approval, as previously noted.

As presented above, communications with NGL and DCP are documented in Appendix C. DCP has specified that COP does not excavate within 4 feet of their pipeline, due to the risk of impact to the high-pressure natural gas line which runs through the impacted area. NGL stipulates only hydro excavation be used within 18 inches of their pipeline. BLM has also stipulated that no hammer hoe should be used to avoid damage to the underground pipelines as a result of vibrations from such equipment.

Based on the analytical results and current site conditions, COP proposes to excavate the impacted material as depicted in Figures 6A and 6B to the maximum extent possible. Impacted materials will be excavated using heavy equipment (mini-excavator or backhoe) to a maximum depth of 7 ft below surface grade or until a representative sample from the walls and bottom of the excavation is below the Site RRALs and/or reclamation requirements for soils above 4 feet.

Heavy equipment (backhoe) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 4 feet from any pressurized lines. Impacted soils within the vicinity of the surface lines will be dug by hand to the maximum extent practicable. Figures 6A and 6B depict the exclusion zone around the DCP pipeline. Proposed excavation work is limited to the areas outside of this exclusion zone.

Due to the dense, lithified, caliche strata encountered below 3 feet bgs, the excavation will extend to the maximum vertical extent practicable with the designated equipment. As this proposed excavation area is proximal to active buried pipelines, use of the hammerhoe is prohibited for large areas of the release extent, due to the possibility of vibration and potential damage to underground utilities, as well as the stipulations of the pipeline owners to restrict mechanical digging in the vicinity of the subsurface lines. Additionally, using a hammer hoe increases the probability for additional unwanted impacts to the environment resulting from a potential unplanned incident.

Using heavy equipment applicable to the release site, all attempts will be made to achieve the indicated excavation depths to remove the impacted soils that exceed established RRALs. If the known dense, lithified caliche strata hinders deeper excavation in some areas and a backhoe and/or trackhoe cannot penetrate the caliche layer (and hammerhoe is not an option), the NMOCD will be consulted to establish a path forward.

Current options would be:

- **to request a variance to leave chlorides in excess of RRALs in place;**
- **to install a natural compacted clay barrier layer at the base of the excavation; or**
- **to install a Geosynthetic Clay Liner (GCL) at the base of the excavation**.

The estimated area which is expected to present difficulty with dense subsurface strata is 4,867 square feet. The estimated volume of material that may left in place is between 524 CY and 698 CY, depending on the maximum vertical depth achieved.

In the event a variance is not accepted, the compacted clay barrier or GCL would be installed at the base of the excavation to inhibit the vertical migration of contamination below the excavation depth due to percolating rainwater. A trench would be cut along the edges of the base of the excavation to “key set” the liner material, securing the liner in place, thus inhibiting potential contact between percolating rainwater and the soils remaining below the excavated area. Additionally, the excavation would be sloped to shed percolating rainwater to the liner’s edges. As a precaution, the specifications for the GCL are included in Appendix F.

During the remedy, excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Prior to confirmation sampling, the NMOCD district office will be notified via email in accordance with Subsection D of 19.15.29.12 NMAC. Confirmation floor and sidewall samples will be collected for verification of remedial activities and analyzed for TPH, BTEX, and chloride. The current estimated total volume of material to be remediated is approximately 2,055 cubic yards.

ALTERNATIVE CONFIRMATION SAMPLING PLAN

In accordance with 19.15.29.12(D)(1)(b) NMAC, COP proposes the following confirmation sampling plan to adhere with NMOCD requirements. Confirmation floor and sidewall samples will be collected for verification of remedial activities. The proposed confirmation sample locations are depicted in Figure 7A and 7B. Thirty-one (31) confirmation floor samples and thirty-two (32) confirmation sidewall samples are proposed for verification of remedial activities. The proposed excavation encompasses a surface area of approximately 12,354 square feet.

As previously stated, using a backhoe, we will excavate to the maximum extent practicable as depicted in figures 6A and 6B; however, if refusal is encountered at shallower depths, the floor confirmation sample will be collected at the maximum depth achieved. Although confirmation samples will be collected from the sidewalls of the 4-foot exclusion zones established by DCP along their pipeline, no additional excavation within this buffer zones will be allowed even if the confirmation samples exceed reclamation requirements/RRALs.

These confirmation sidewall and floor samples will be representative of no more than approximately 400 square feet of excavated area. Confirmation samples will be submitted for analysis of TPH via Method 8015

Modified, and chloride via Method SM4500Cl-B. All prior laboratory analytical results have indicated that benzene and BTEX are either non-detect, or below any regulatory requirements. Once acceptable results are received, the excavation will then be backfilled with clean material to surface grade.

SITE RECLAMATION AND RESTORATION PLAN

Once acceptable confirmation sample results are received the excavation will be backfilled with clean material to surface grade. The backfilled areas, as well as the staging area, will be graded and seeded to aid in revegetation. Based on the location of the Site, the seed mixture for LPC Sand/Shinnery Sites will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and to evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the BLM will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The BLM seed mixture details and corresponding pounds pure live seed per acre are included in Appendix G.

CONCLUSION

Based on the results of the additional release delineation activities, COP will remediate impacted areas, as described in the previous sections, and as indicated in Figures 6A and 6B. COP proposes to begin remediation activities at the Site within 90 days of the following conditions being met:

- Receiving approvals from NMOCD and BLM for this Work Plan Addendum #2, and
- Obtaining written permissions from all associated easement owners, and the underground utility owners.

Upon completion of the proposed work, a final closure report detailing the remediation activities and the results of the confirmation sampling will be submitted to NMOCD and BLM. If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 560-9064 or Christian at (512) 338-2861.

Sincerely,
Tetra Tech, Inc.

Nicholas M. Poole, G.I.T.
Project Manager

Christian Llull, P.G.
Program Manager

cc:
Mr. Ike Tavarez, RMR – ConocoPhillips
Ms. Crisha Morgan, BLM

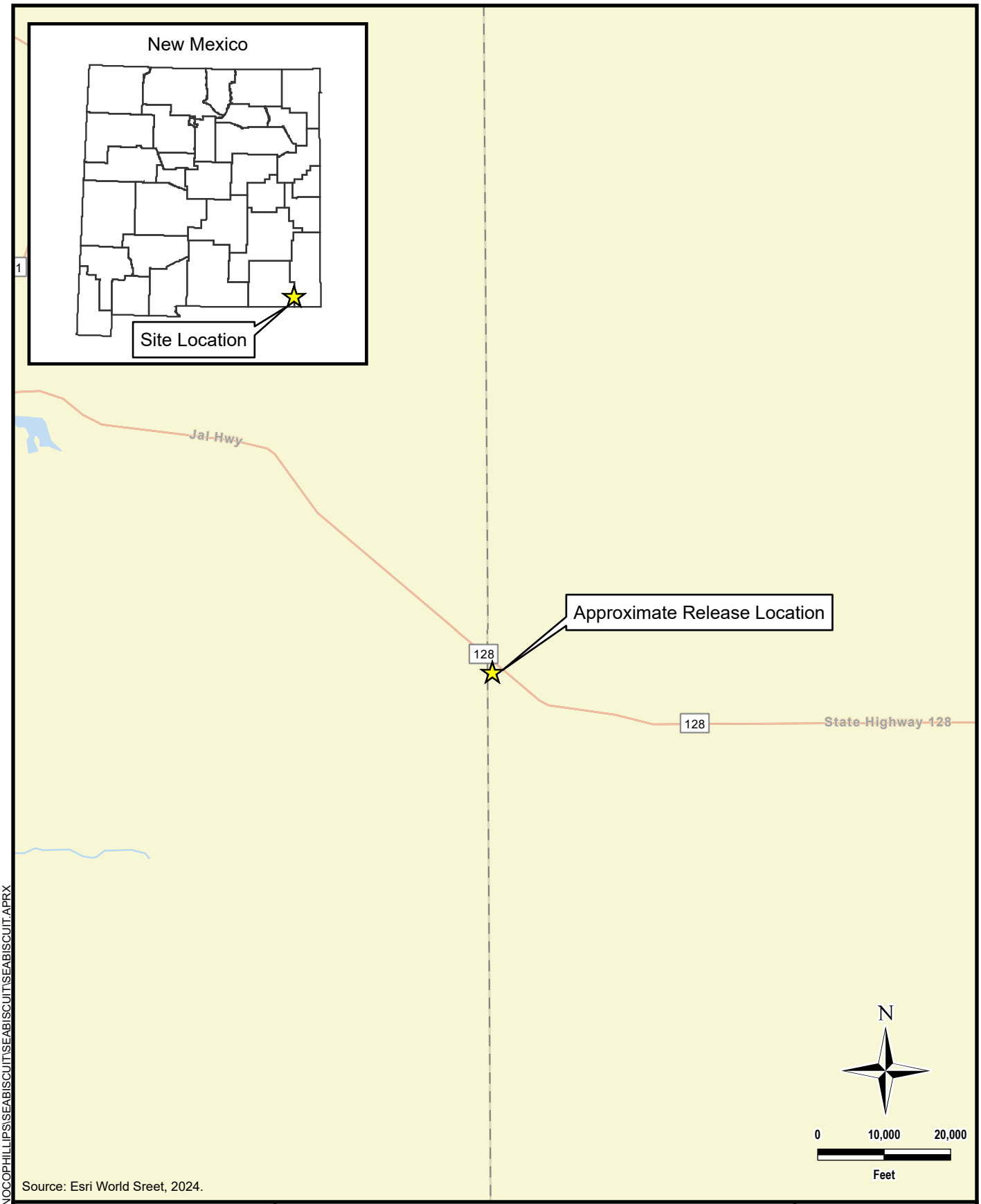
LIST OF ATTACHMENTS

Figures:

Tables:

Appendices:

FIGURES



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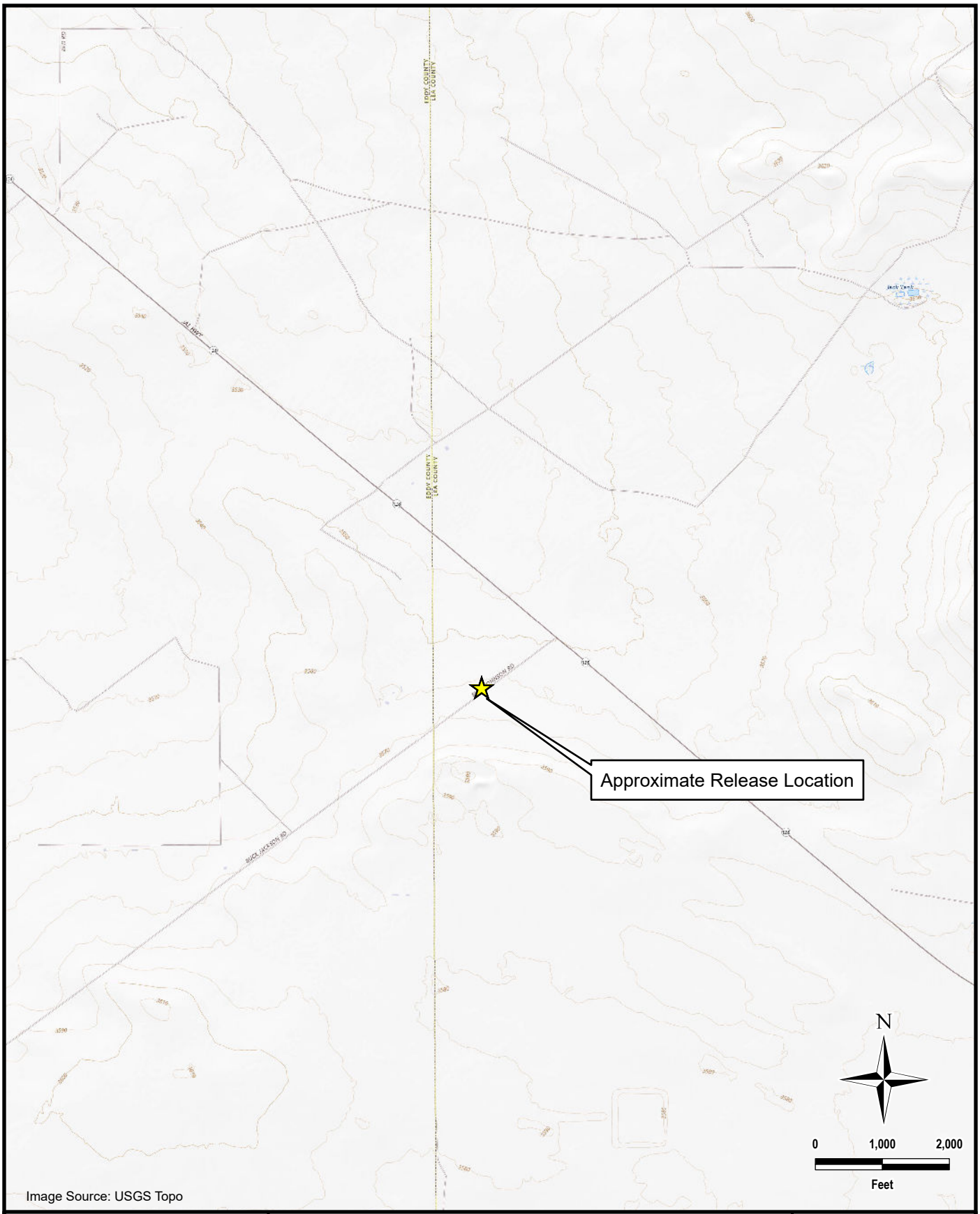
CONOCOPHILLIPS

NRM2013962666
(32.233011°, -103.72022°)
LEA COUNTY, NEW MEXICO

SEABISCUIT FEDERAL COM #002H FLOWLINE RELEASE
OVERVIEW MAP

PROJECT NO.:	212C-MD-02722
DATE:	JULY 09, 2024
DESIGNED BY:	LMV

Figure No.
1



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CONOCOPHILLIPS

NRM2013962666
(32.233011°, -103.72022°)
LEA COUNTY, NEW MEXICO

SEABISCUIT FEDERAL COM #002H FLOWLINE RELEASE
TOPOGRAPHIC MAP

PROJECT NO.:	212C-MD-02722
DATE:	JULY 09, 2024
DESIGNED BY:	LMV

Figure No.
2

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CONOCOPHILLIPS

NRM2013962666
(32.233011°, -103.72022°)
LEA COUNTY, NEW MEXICO

SEABISCUIT FEDERAL COM #002H FLOWLINE RELEASE
APPROXIMATE RELEASE AND SITE ASSESSMENT

PROJECT NO.:	212C-MD-02722
DATE:	JULY 09, 2024
DESIGNED BY:	LMV

Figure No.
3

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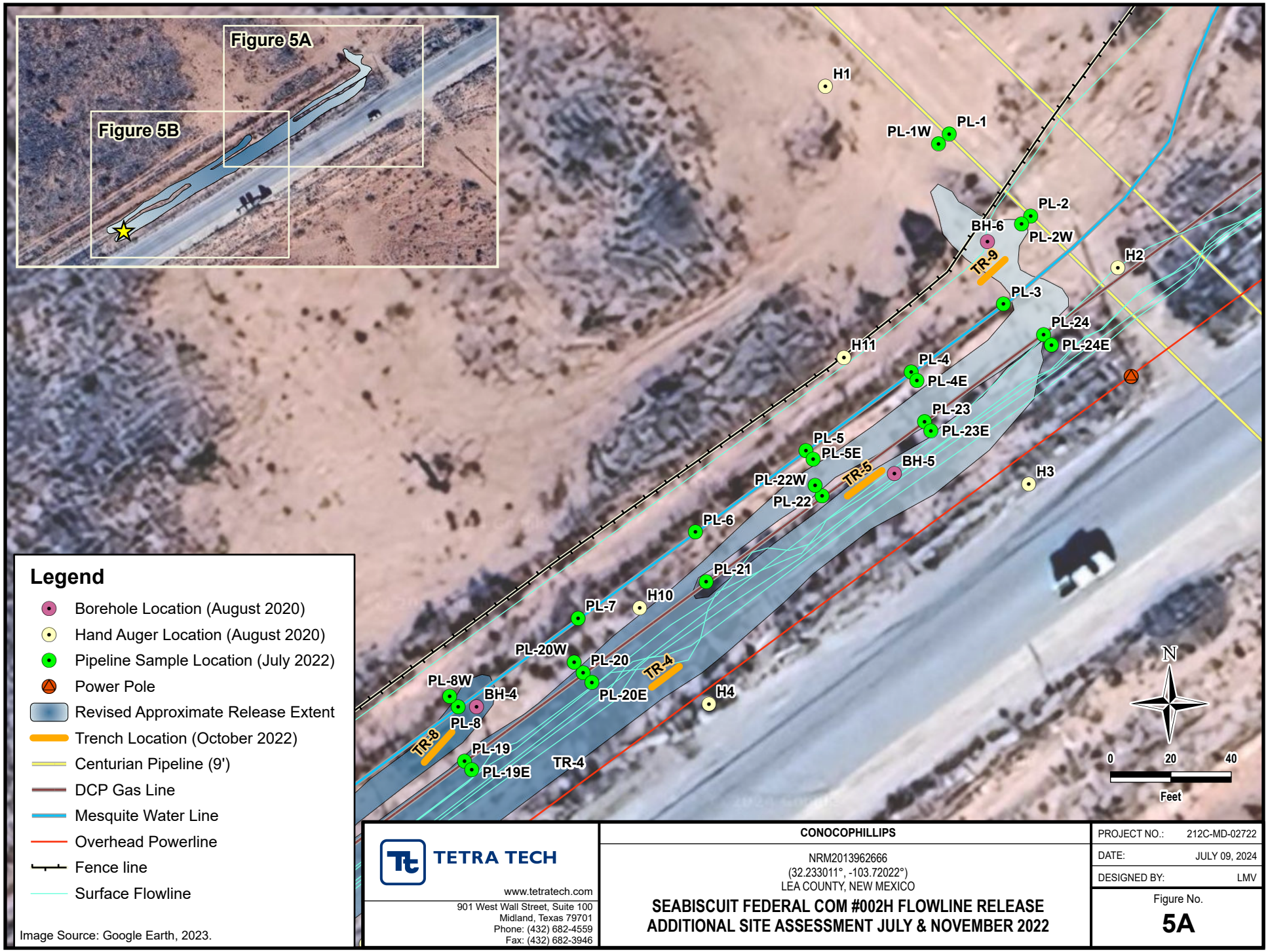
CONOCOPHILLIPS

NRM2013962666
(32.233011°, -103.72022°)
LEA COUNTY, NEW MEXICO

SEABISCUIT FEDERAL COM #002H FLOWLINE RELEASE
DTW BOREHOLE LOCATIONS

PROJECT NO.:	212C-MD-02722
DATE:	JULY 09, 2024
DESIGNED BY:	LMV

Figure No.
4



DOCUMENT PATH: Y:\CONOCOPHILLIPS\SEABISCUIT\SEABISCUIT\SEABISCUIT.APRX

TETRA TECH
www.tetratech.com
901 West Wall Street, Suite 100
Midland, Texas 79701
Phone: (432) 682-4559
Fax: (432) 682-3946

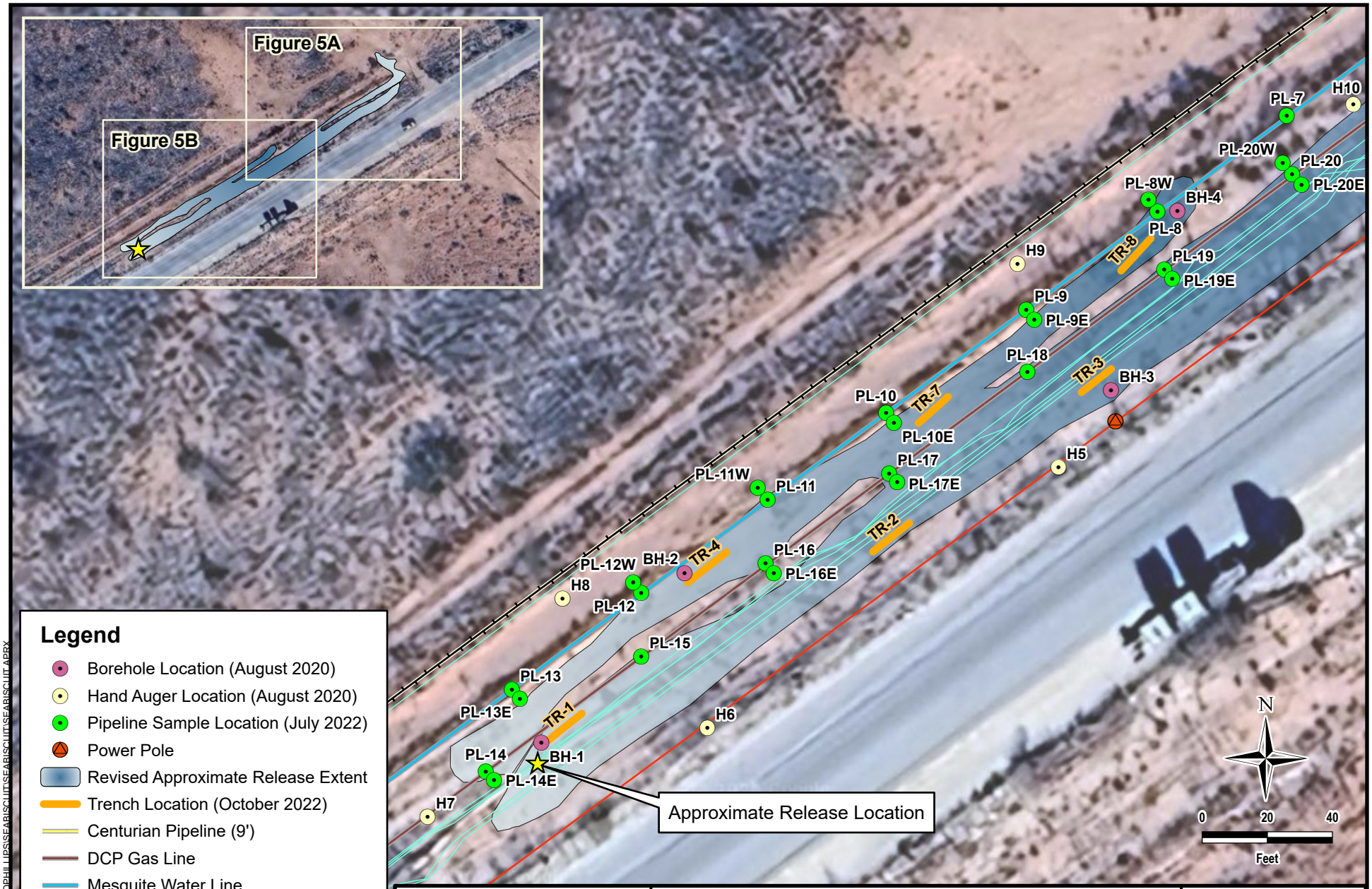
CONOCOPHILLIPS

NRM2013962666
(32.233011°, -103.72022°)
LEA COUNTY, NEW MEXICO

SEABISCUIT FEDERAL COM #002H FLOWLINE RELEASE
ADDITIONAL SITE ASSESSMENT JULY & NOVEMBER 2022

PROJECT NO.:	212C-MD-02722
DATE:	JULY 09, 2024
DESIGNED BY:	LMV

Figure No.
5A



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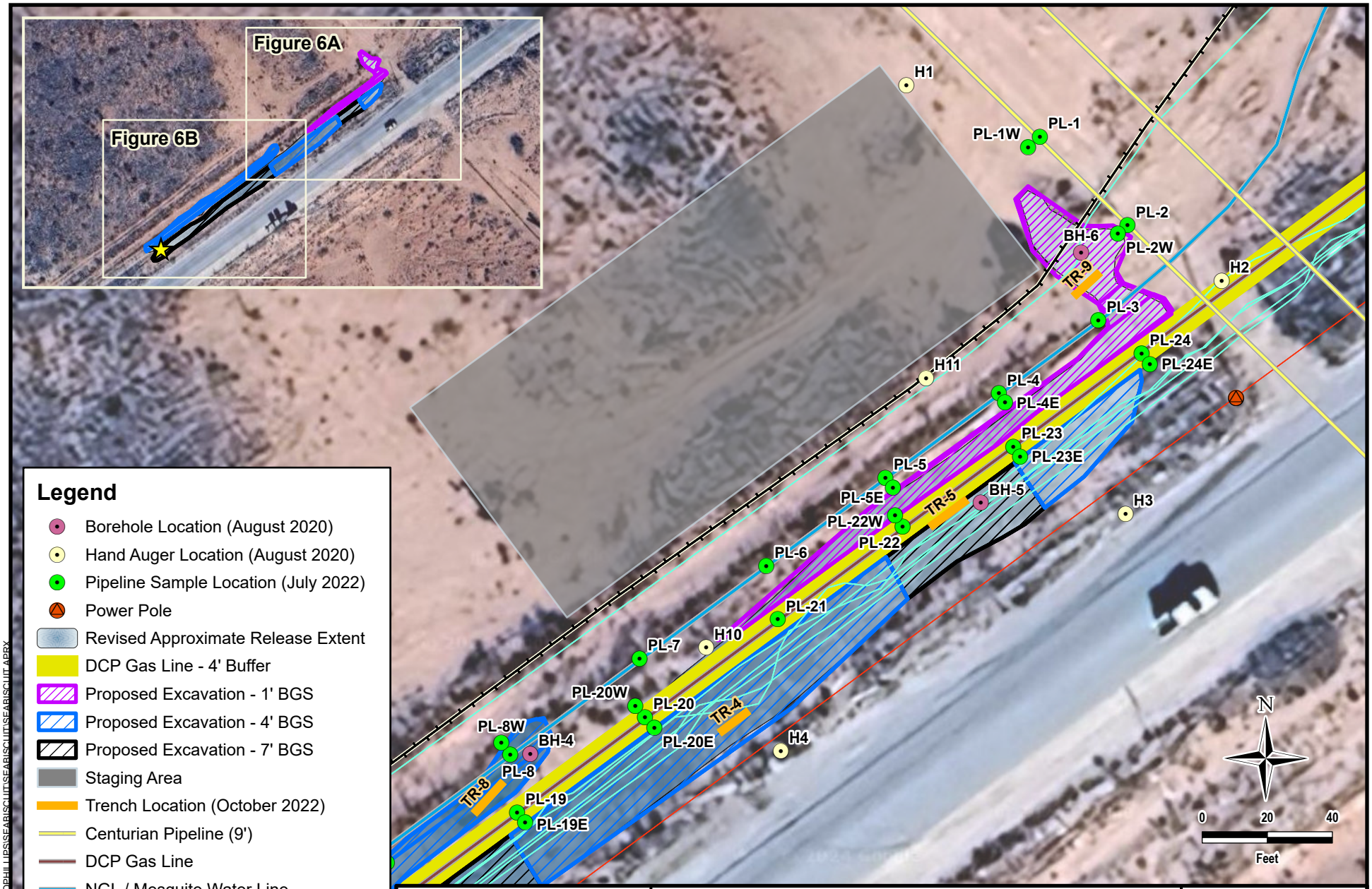
DATE:	JULY 09, 2024
DESIGNED BY:	LMV

Figure No.
5B



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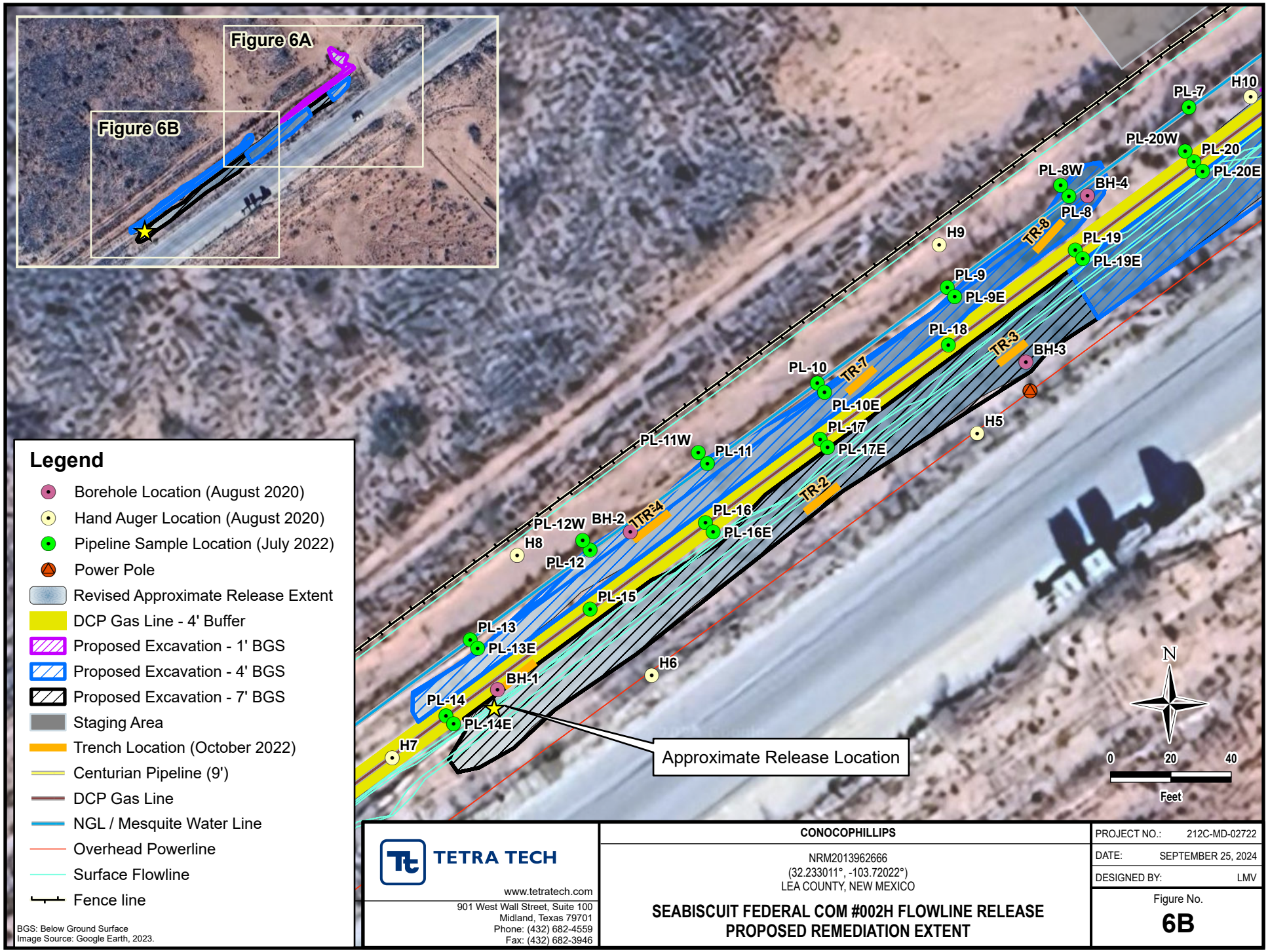
LEA COUNTY, NEW MEXICO

SEABISCUIT FEDERAL COM #002H FLOWLINE RELEASE
PROPOSED REMEDIATION EXTENT

PROJECT NO.:	212C-MD-02722
DATE:	SEPTEMBER 25, 2024
DESIGNED BY:	LMV

Figure No.
6A



Legend

- Borehole Location (August 2020)
- Hand Auger Location (August 2020)
- Pipeline Sample Location (July 2022)
- Power Pole
- Revised Approximate Release Extent
- DCP Gas Line - 4' Buffer
- Proposed Excavation - 1' BGS
- Proposed Excavation - 4' BGS
- Proposed Excavation - 7' BGS
- Staging Area
- Trench Location (October 2022)
- Centurian Pipeline (9')
- DCP Gas Line
- NGL / Mesquite Water Line
- Overhead Powerline
- Surface Flowline
- Fence line

BGS: Below Ground Surface
Image Source: Google Earth, 2023.

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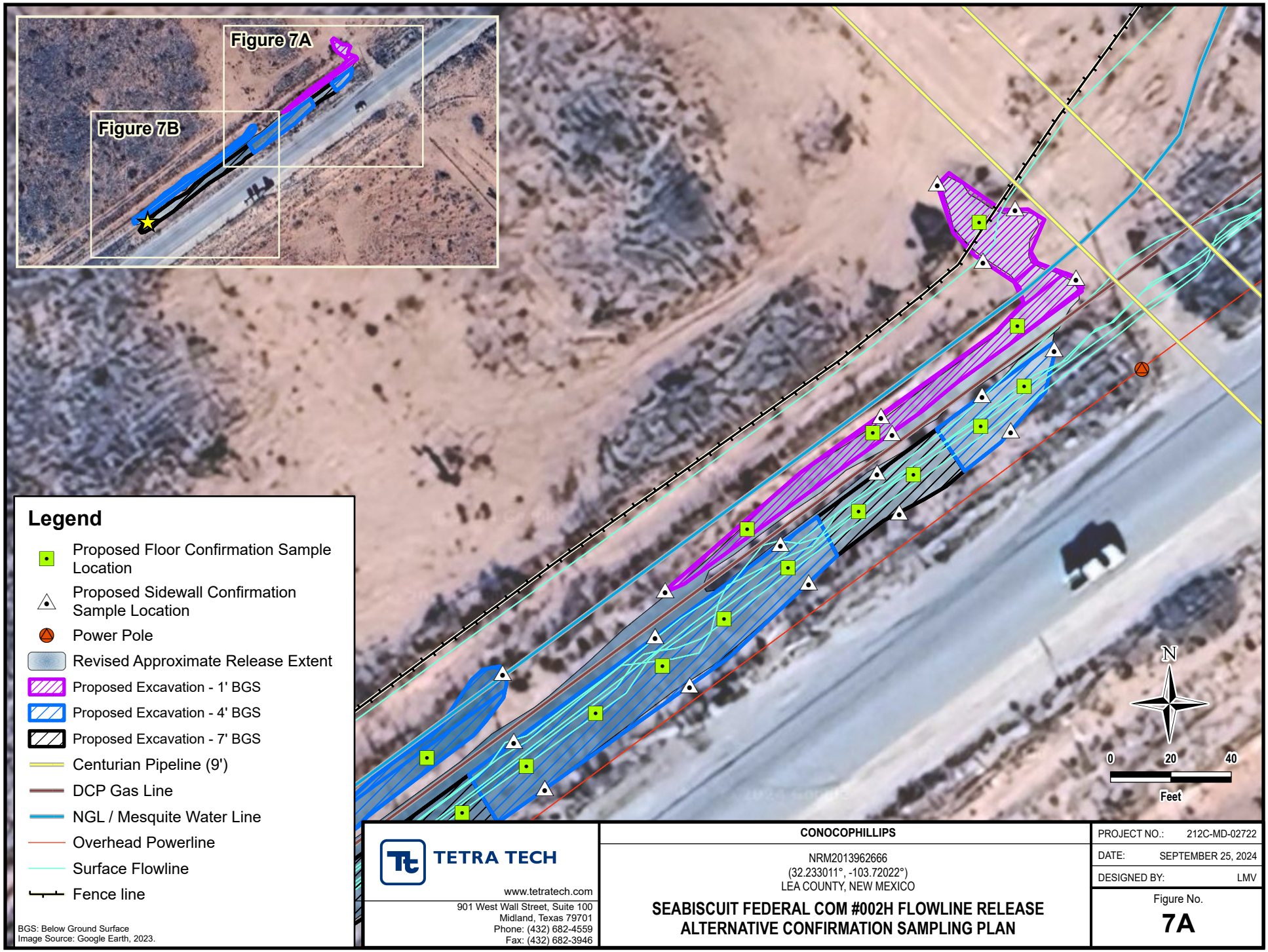
SEABISCUIT FEDERAL COM #002H FLOWLINE RELEASE
PROPOSED REMEDIATION EXTENT

PROJECT NO.:	212C-MD-02722
DATE:	SEPTEMBER 25, 2024
DESIGNED BY:	LMV

Figure No.
6B



DOCUMENT PATH: Y:\CONOCOPHILLIPS\SEABISCUIT\SEABISCUIT\SEABISCUIT.APRX

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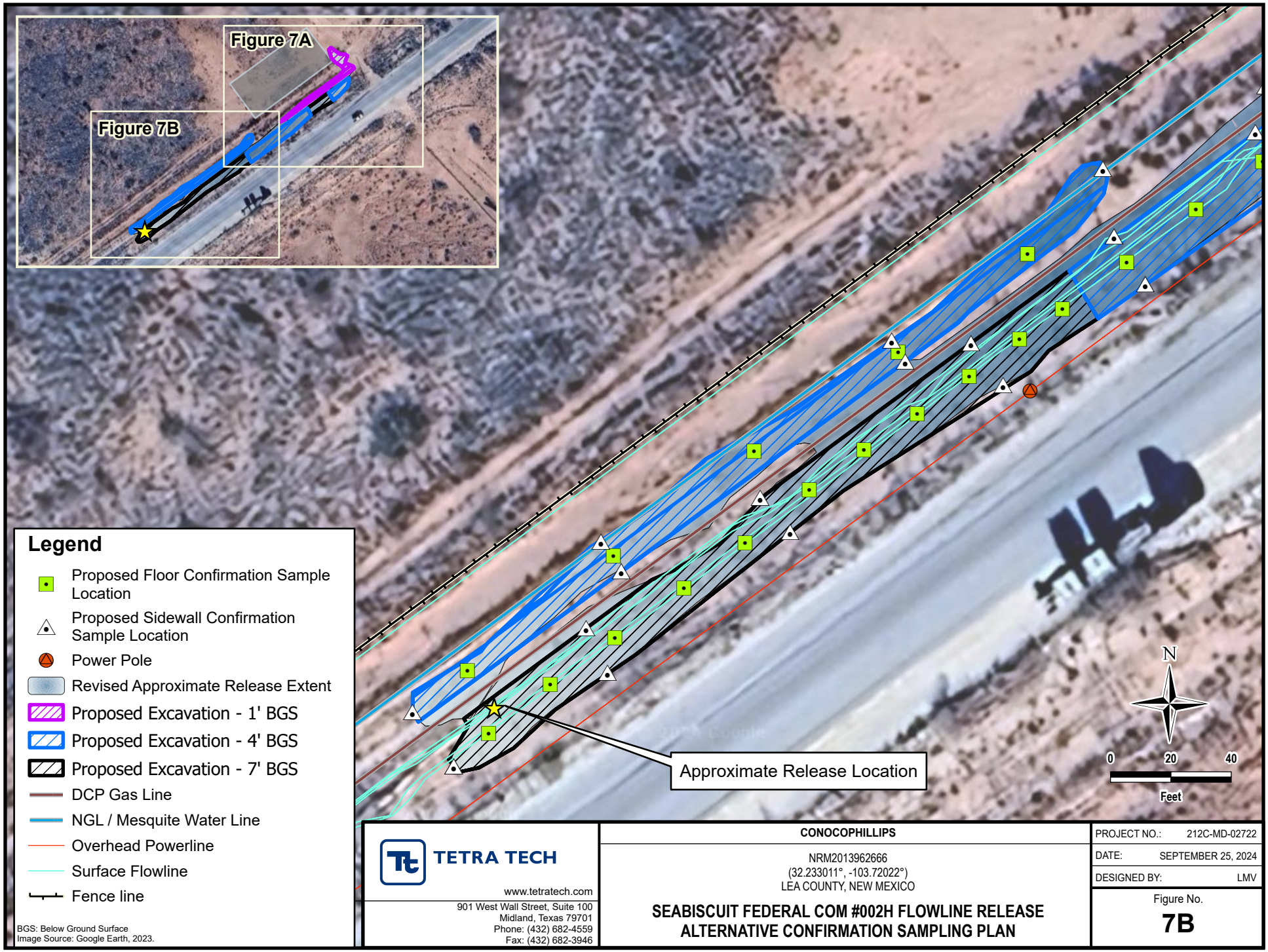
LEA COUNTY, NEW MEXICO

SEABISCUIT FEDERAL COM #002H FLOWLINE RELEASE
ALTERNATIVE CONFIRMATION SAMPLING PLAN

PROJECT NO.:	212C-MD-02722
DATE:	SEPTEMBER 25, 2024
DESIGNED BY:	LMV

Figure No.
7A



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SEABISCUIT FEDERAL COM #002H FLOWLINE RELEASE
ALTERNATIVE CONFIRMATION SAMPLING PLAN

PROJECT NO.:	212C-MD-02722
DATE:	SEPTEMBER 25, 2024
DESIGNED BY:	LMV

Figure No.
7B

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2020 SOIL ASSESSMENT - NRM2013962666
HERITAGE CONCHO
SEA BISCUIT FEDERAL COM #2H
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Chloride		BTEX										TPH									
					Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX		GRO		DRO		ORO		Total TPH (GRO+DRO+MRO)	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
BORE HOLE-1	8/6/2020	0-1	***1,090***		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 50.0		2,410		257		***2,670***	
		2-3	215		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 49.9		218		57.4		***275***	
		4-5	***20,000***		NA		NA		NA		NA		NA		< 49.9		< 49.9		< 49.9		< 49.9	
		6-7	***11,800***		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	5,280		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	598		NA		NA		NA		NA		NA		NA		NA		NA		NA	
BORE HOLE-2	8/6/2020	0-1	***7,090***		< 0.00201		< 0.00201		< 0.00201		< 0.00201		< 0.00201		< 49.8		< 49.8		< 49.8		< 49.8	
		2-3	***7,700***		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 50.0		< 50.0		< 50.0		< 50.0	
		4-5	4,780		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	3,950		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	4,220		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	3,220		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		19-20	447		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		24-25	332		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		29-30	412		NA		NA		NA		NA		NA		NA		NA		NA		NA	
BORE HOLE-3	8/6/2020	0-1	***5,260***		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 49.9		261		< 49.9		***261***	
		2-3	***6,180***		< 0.00202		< 0.00202		< 0.00202		< 0.00202		< 0.00202		< 50.0		71.0		< 50.0		71.0	
		4-5	***27,100***		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	***17,700***		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	6,020		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	359		NA		NA		NA		NA		NA		NA		NA		NA		NA	
BORE HOLE-4	8/6/2020	0-1	***5,500***		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 49.9		420		67.5		***488***	
		2-3	***6,800***		< 0.00202		< 0.00202		< 0.00202		< 0.00202		< 0.00202		< 49.9		199		< 49.9		***199***	
		4-5	1,670		NA		NA		NA		NA		NA		< 49.8		< 49.8		< 49.8		< 49.8	
		6-7	489		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	779		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	448		NA		NA		NA		NA		NA		NA		NA		NA		NA	
BORE HOLE-5	8/6/2020	0-1	***2,530***		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 50.0		< 50.0		< 50.0		< 50.0	
		2-3	***2,310***		< 0.00201		< 0.00201		< 0.00201		< 0.00201		< 0.00201		< 49.9		< 49.9		< 49.9		< 49.9	
		4-5	***14,800***		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	***19,100***		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		9-10	5,950		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		14-15	2,560		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		19-20	507		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		24-25	308		NA		NA		NA		NA		NA		NA		NA		NA		NA	
BORE HOLE-6	8/6/2020	0-1	***5,390***		< 0.00201		< 0.00201		< 0.00201		< 0.00201		< 0.00201		< 50.0		< 50.0		< 50.0		< 50.0	
		2-3	330		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		4-5	51.3		NA		NA		NA		NA		NA		NA		NA		NA		NA	
		6-7	64.0		NA		NA		NA		NA		NA		NA		NA		NA		NA	

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2020 SOIL ASSESSMENT - NRM2013962666
HERITAGE CONCHO
SEA BISCUIT FEDERAL COM #2H
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth Interval	Chloride		BTEX										TPH							
					Benzene		Toluene		Ethylbenzene		Xylene		Total BTEX		GRO		DRO		ORO		Total TPH (GRO+DRO+MRO)	
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q
HORIZONTAL-1	8/12/2020	0-1	10.3		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 49.8		< 49.8		< 49.8		< 49.8	
HORIZONTAL-2	8/12/2020	0-1	18.5		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 50.0		< 50.0		< 50.0		< 50.0	
HORIZONTAL-3	8/12/2020	0-1	31.1		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 50.0		< 50.0		< 50.0		< 50.0	
HORIZONTAL-4	8/12/2020	0-1	68.2		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 49.9		< 49.9		< 49.9		< 49.9	
HORIZONTAL-5	8/12/2020	0-1	185		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 49.8		< 49.8		< 49.8		< 49.8	
HORIZONTAL-6	8/12/2020	0-1	55.4		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 50.0		< 50.0		< 50.0		< 50.0	
HORIZONTAL-7	8/12/2020	0-1	16.6		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 49.9		< 49.9		< 49.9		< 49.9	
HORIZONTAL-8	8/12/2020	0-1	10.5		< 0.00198		< 0.00198		< 0.00198		< 0.00198		< 0.00198		< 50.0		< 50.0		< 50.0		< 50.0	
HORIZONTAL-9	8/12/2020	0-1	13.3		< 0.00198		< 0.00198		< 0.00198		< 0.00198		< 0.00198		< 49.9		< 49.9		< 49.9		< 49.9	
HORIZONTAL-10	8/12/2020	0-1	20.2		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 0.00200		< 49.8		< 49.8		< 49.8		< 49.8	
HORIZONTAL-11	8/12/2020	0-1	33.6		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 0.00199		< 49.9		< 49.9		< 49.9		< 49.9	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

MRO Motor oil range organics

NA Sampled not analyzed

Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements for soils above 4 feet bgs.

Shaded rows indicate intervals proposed for excavation.

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
PIPELINE SOIL ASSESSMENT JULY 2022
CONOCOPHILLIPS
SEABISCUIT FED COM #002H FLOWLINE RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride[1]		BTEX[2]										TPH[3]							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
																	C_6 - C_{10}		> C_{10} - C_{28}		> C_{28} - C_{36}		(GRO+DRO+EXT DRO)
		ft. bgs	ppm		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
PL-1	7/5/2022	0-1			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-1W	7/5/2022	0-1			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-2	7/5/2022	0-1			192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3			80.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-2W	7/5/2022	0-1			***13,200***		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-3	7/5/2022	0-1			544		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-4	7/5/2022	0-1			288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-4E	7/5/2022	0-1			96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-5	7/5/2022	0-1			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-5E	7/5/2022	0-1			320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-6	7/5/2022	0-1			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-7	7/5/2022	0-1			< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-8	7/6/2022	0-1			***1,470***		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-8W	7/6/2022	0-1			< 16.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-9	7/6/2022	0-1			320		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-9E	7/6/2022	0-1			192		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		1,290		467		***1,757***
PL-10	7/6/2022	0-1			112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-10E	7/6/2022	0-1			***1,010***		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		34.2		< 10.0		34.2
PL-11	7/6/2022	0-1			***5,440***		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		85.6		18.4		104
PL-11W	7/6/2022	0-1			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-12	7/6/2022	0-1			***1,550***		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-12W	7/6/2022	0-1			32.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-13	7/6/2022	0-1			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-13E	7/6/2022	0-1			480		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-14	7/6/2022	0-1			96.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3			***1,150***		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-14E	7/6/2022	0-1			208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-15	7/6/2022	0-1			***784***		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3			***1,650***		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
PL-21	7/6/2022	0-1			48.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-
		2-3			64.0		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		-

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
1 Method SM4500Cl-B
2 Method 8021B
3 Method 8015M

Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.
Shaded rows indicate intervals proposed for excavation.

TABLE 3
SUMMARY OF ANALYTICAL RESULTS
2022 SOIL ASSESSMENT- NRM2013962666
HERITAGE CONCHO
SEA BISCUIT FEDERAL COM #2H
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride[1]		BTEX[2]										TPH[3]							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH
																	C_6 - C_{10}		> C_{10} - C_{28}		> C_{28} - C_{36}		(GRO+DRO+EXT DRO)
		ft. bgs	ppm		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
TR-1	11/10/2022	0-1	2,210		***1,690***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	2,080		***1,920***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		24.3		<10.0		-
		4-5	5,080		***5,930***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-7	8,010		***11,300***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
TR-2	11/10/2022	0-1	223		298		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	1,400		***1,200***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	8,420		***12,100***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-7	8,100		***11,100***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
TR-3	11/10/2022	0-1	2,600		***2,450***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	4,720		***4,090***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	>10,000		***16,700***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-7	>10,000		***21,100***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
TR-4	11/9/2022	0-1	7,461		12.4		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	433		148		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		4-5	1,150		1360		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		6-7	1,140		1110		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
TR-5	11/9/2022	0-1	544		431		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	744		410		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		29.7		<10.0		-
		4-5	5,870		***2,300***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.8		<10.0		-
		6-7	>10,000		***17,500***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
TR-6	11/9/2022	0-2	3,270		***2,060***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-3	6,400		***5,830***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
TR-7	11/9/2022	0-2	893		488		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-4	8,000		***9,660***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
TR-8	11/9/2022	0-2	942		***623***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
		2-4	2,480		***2,680***		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-
TR-9	11/9/2022	0-1	5,400		**1,890**		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method EPA 300.0

2 Method 8021B

3 Method 8015B

Bold and italicized values indicate exceedance of proposed Remediation RRALs and/or Reclamation Requirements for soils above 4 feet bgs.

Shaded rows indicate intervals proposed for excavation.

APPENDIX A
C-141 Forms

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NRM2013962666
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jennifer Knowlton	Contact Telephone	(575) 748-1570
Contact email	JKnowlton@concho.com	Incident # *(assigned by OCD)*	
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.22546 Longitude -103.73285
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Seabiscuit Federal Com 002H	Site Type	Flowline
Date Release Discovered	May 2, 2020	API# *(if applicable)*	30-015-37607

Unit Letter	Section	Township	Range	County
N	12	24S	31E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 100	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Release Location in the Pasture: 32.232937 -103.720023
Unit Letter E, Section 7, T24S, R32E, Lea County, New Mexico.

The release was caused by a transfer pump flowline rupturing near the SWD. The release was in the pasture. A vacuum truck was dispatched to remove all freestanding fluids. Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	NRM2013962666
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The volume released was greater than 25 barrels.

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

Immediate notice was given by Sheldon Hitchcock via e-mail May 3, 2020 at 12:06 pm to Mike Bratcher and blm_nm_cfo_spill@blm.gov.

Initial Response

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

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

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

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

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

Printed Name: Brittany N. Esparza Title: HSE Administrative Assistant

Signature: Brittany Esparza Date: 5/15/2020

email: besparza@concho.com Telephone: (432) 221-0398

OCD Only

Received by: Ramona Marcus Date: 5/18/2020

****** LIQUID SPILLS - VOLUME CALCULATIONS ******

Location of spill: COG -Seabiscuit Federal Com 2H **Date of Spill:** 2-May-2020

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box, flowline, tank battery, production vessel, transfer pump, or storage tank **place an "X" here:** X

Input Data:

	OIL:	WATER:
If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here:	0.0 BBL	0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations

Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	550 ft		20 ft	X	4.50 in	0%
Rectangle Area #2	0 ft	X	0 0	X	0.00 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

Standing Liquid Calculations

Standing Liquid Area	width		length		liquid depth	oil (%)
Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: YES N/A *(place an "X")*

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.
* Sand = **0.08** gallon (gal.) liquid per gal. volume of soil.
* Gravelly (caliche) loam = **0.14** gal. liquid per gal. volume of soil.
* Sandy clay loam soil = **0.14** gal liquid per gal. volume of soil.
* Clay loam = **0.16** gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:
Occurs when the spill soaked soil is contained by barriers, natural (or not).
* Clay loam = **0.20** gal. liquid per gal. volume of soil.
* Gravelly (caliche) loam = **0.25** gal. liquid per gal. volume of soil.
* Sandy loam = **0.5** gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume: **11,000** sq. ft. **4,125** cu. ft. cu. ft.

Total Free Liquid Volume: sq. ft. cu. ft. cu. ft.

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	102.9 BBL	0.0 BBL
Free Liquid:	0.0 BBL	0.0 BBL
Totals:	**102.9 BBL**	**0.0 BBL**
Total Liquid Spill Liquid:	**102.9 BBL**	**0.00 BBL**

Estimated Production Volumes Lost

	H2O	OIL
Estimated Production Spilled:	**0.0** BBL	**0.0** BBL

Estimated Surface Damage

Surface Area: 11,000 sq. ft.

Surface Area: .2525 acre

Recovered Volumes

Estimated oil recovered: **BBL** check - okay

Estimated water recovered: **BBL** check - okay

Estimated Weights, and Volumes

Saturated Soil =	462,000 lbs	4,125 cu. ft.	153 cu. yds.
Total Liquid =	103 BBL	4,320 gallon	35,940 lbs

Air Emission from flowline leaks:

Volume of oil spill:	-	BBL
Separator gas calculated:	-	MCF
Separator gas released:	-	MCF
Gas released from oil:	-	lb
H2S released:	-	lb
Total HC gas released:	-	lb
Total HC gas released:	-	MCF

Air Emission of Reporting Requirements:

	New Mexico	Texas
HC gas release reportable?	NO	NO
H2S release reportable?	NO	NO

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ _____ Title: _____

Signature:_____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

APPENDIX B
Site Characterization Data

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 03530 POD1	C	LE	3	4	3	07	24S	32E	620886	3566156	844	550		
C 04687 POD1	CUB	ED	4	2	3	12	24S	31E	619481	3566450	1164	110		
C 04775 POD1	CUB	LE	4	4	4	06	24S	32E	621789	3567860	1556	105		
C 04672 POD 1	CUB	ED	2	1	4	01	24S	31E	619762	3568286	1566	110		
C 04746 POD1	CUB	ED	3	4	3	36	23S	31E	619226	3569417	2816	105		
C 03555 POD1	C	LE	2	2	1	05	24S	32E	622748	3569233	3190	600	380	220

Average Depth to Water: **380 feet**

Minimum Depth: **380 feet**

Maximum Depth: **380 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 620543 **Northing (Y):** 3566928.25 **Radius:** 3200

SCARBOROUGH DRILLING, INC.
TEST HOLES • WATER WELLS
P.O. Box 305 - Ph. 806-872-3285 or 872-9349
LAMESA, TEXAS 79331
2001 South Hwy. 87

WELL LOG

From	To	FORMATION
0	4	Brown Top Soil
4	5	Caliche
5	12	Red Sand
12	20	Red Sand w/ Caliche Layers
20	30	Caliche w Red Sand
30	55	Red Shale w/ Caliche
		BHI
		COG - Seabiscuit Federal Com 2H 3H 4H
		Plugged w/ Hole Plug
		32.233386 -103.719410

Date 8-5-20 Driller Lee Scarbrough

GIBBS PRINTING CO. LAMESA, TX

212C-MD-02722	TETRA TECH	**LOG OF BORING Seabiscuit Fed Com #002H DTW**	Page 1 of 1

Project Name: Seabiscuit Fed Com #002H Flowline Release

Borehole Location GPS Coordinates: 32.223815°, -103.724119° | Surface Elevation: 3585 ft

Borehole Number: Seabiscuit Fed Com #002H DTW | Borehole Diameter (in.): 8 | Date Started: | Date Finished: 4/6/2023

WATER LEVEL OBSERVATIONS

While Drilling ▽ 85 ft Upon Completion of Drilling ▼ 85 ft

Remarks:

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm) ExStik	VOC FIELD SCREENING (ppm) PID	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT LL	PLASTICITY INDEX PI	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS
0												**-SM-** SAND (Pad Material): Light brown to pale brown, loose, dry, fine- to coarse-grained, with caliche fragments	4	
5												**-SM-** SAND: Reddish brown, loose to weakly cemented, slightly moist, fine-grained	7	
10												**-SM-** SAND: Reddish brown, loose to weakly cemented, slightly moist, fine-grained, trace caliche nodules	9	
15												**-SP-** SAND: Light brown, dry, coarse-grained, with abundant caliche fragments	14	
20												**-SM-** SAND: Dark reddish brown, loose to weakly cemented, dry, fine-grained, trace caliche nodules	19	
25												**-SM-** SAND: Dark brown, loose to weakly cemented, dry, fine-grained, trace caliche nodules	29	
30												**-SM-** SAND: Dark reddish brown, weakly cemented, dry, fine-grained, with some clayey sand deposits	44	
35												**-SM-** SAND: Light brown, loose, dry, fine- to coarse-grained, trace caliche nodules -- Transitions to with some clayey sand deposits	54	
40												**-SM-** SAND: Dark reddish brown, loose, dry, fine-grained, trace caliche nodules, intermixed with clay fragments	105	
45														
50														
55														
60														
65														
70														
75														
80														
85														
90														
95														
100														
105														

Bottom of borehole at 105.0 feet.

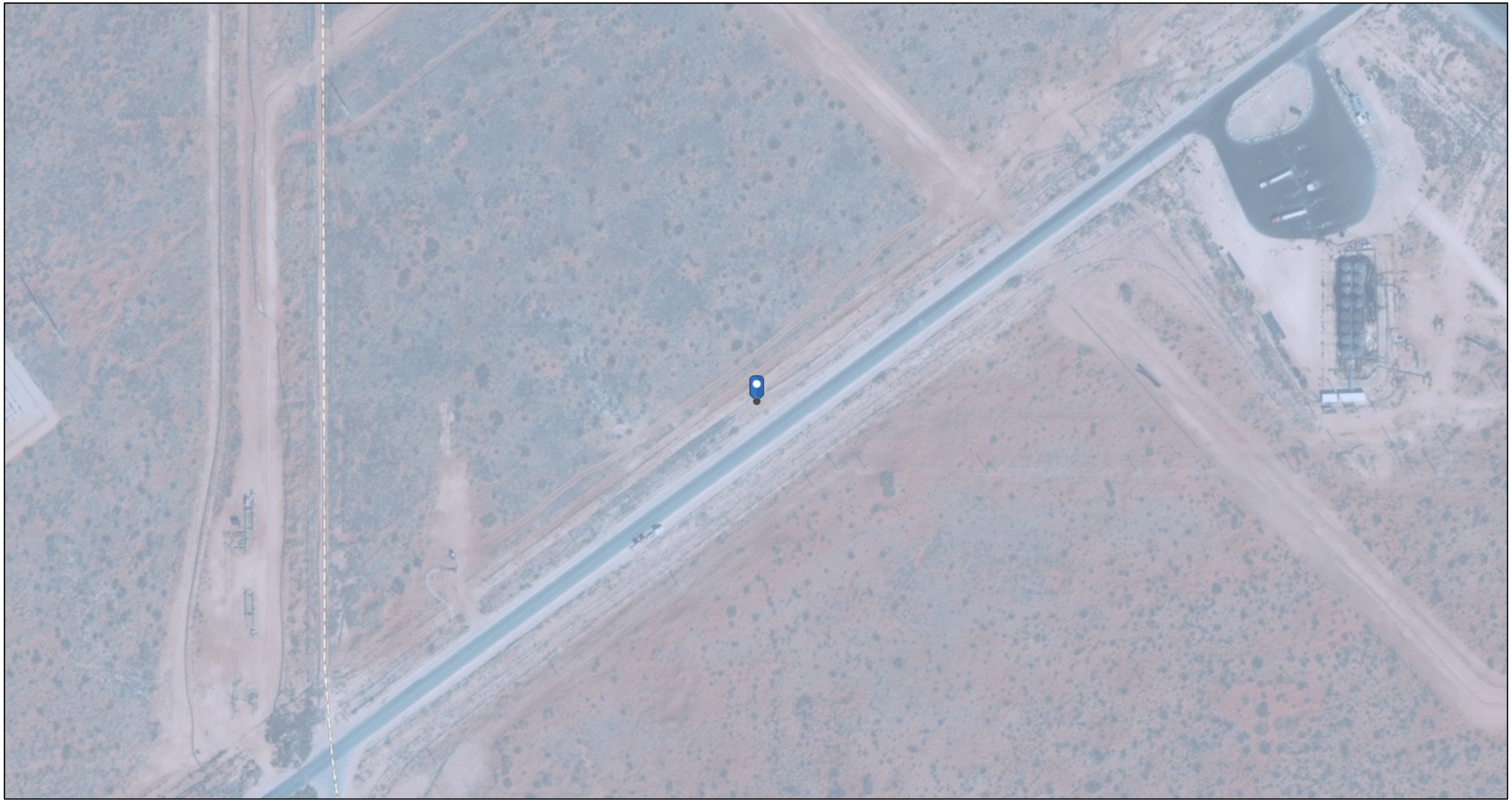
Sampler Types: Split Spoon, Acetate Liner, Shelby, Vane Shear, Bulk Sample, Discrete Sample, Grab Sample, Test Pit

Operation Types: Hand Auger, Mud Rotary, Air Rotary, Continuous Flight Auger, Direct Push, Wash Rotary, Core Barrel

Notes:
Surface elevation is an approximate value obtained from Google Earth data.

Logger: Colton Bickerstaff | Drilling Equipment: Air Rotary | Driller: Scarborough Drilling

OCD Karst Potential Map



1/25/2024, 12:57:03 PM

Karst Occurrence Potential

Low

1:2,257

0 0.02 0.04 0.09 mi

0 0.04 0.07 0.15 km

BLM, OCD, New Mexico Tech, Maxar, Microsoft, Esri, HERE, Garmin, iPC

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

OCD Hydrology Map

1/25/2024, 12:59:30 PM

OSW Water Bodys

1:18,056

0 0.17 0.35 0.7 mi

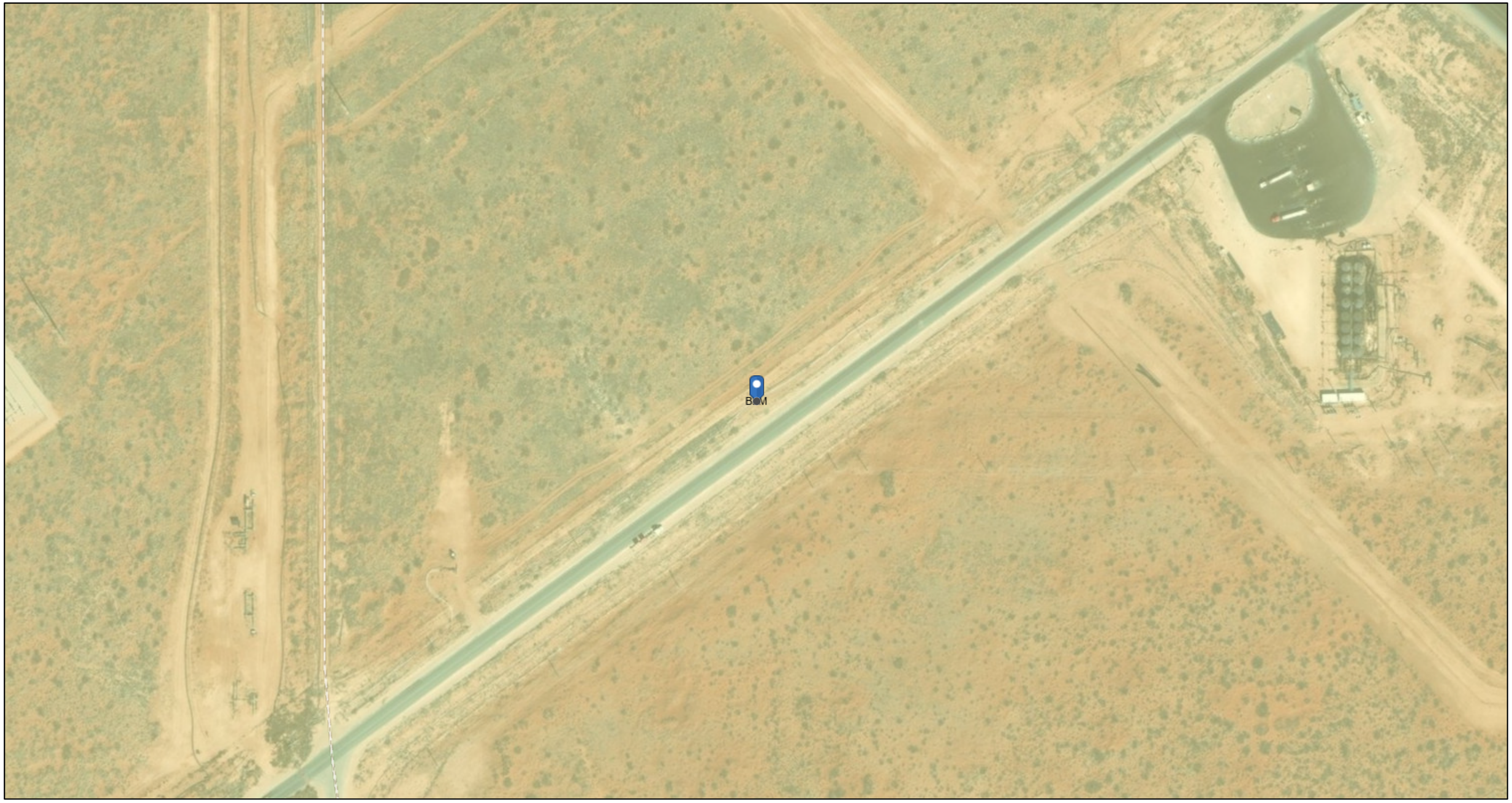
0 0.3 0.6 1.2 km

Esri, HERE, Garmin, iPC, Maxar, NM OSE

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

OCD Land Ownership Map



1/25/2024, 12:57:30 PM

Land Ownership

BLM

1:2,257

0 0.02 0.04 0.09 mi

0 0.04 0.07 0.15 km

U.S. BLM, Maxar, Microsoft, Esri, HERE, Garmin, iPC

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

National Flood Hazard Layer FIRMette

FEMA

103°43'33"W 32°14'12"N

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

1:6,000

103°42'55"W 32°13'42"N

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/25/2024 at 2:04 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX C
Correspondence (OCD, BLM, DCP, NGL)

Llull, Christian

Subject: FW: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 11012

From: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Sent: Tuesday, September 14, 2021 8:27 AM
To: Wade, Kelsey L <kwade@blm.gov>
Subject: FW: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 11012

Please see below for the OCD approval for the following site:

Seabiscuit Federal Com 002H (05-02-2020) NRM2013962666

Thank you,
Brittany N. Esparza
Brittany N. Esparza | Environmental Technician, Permian | **ConocoPhillips**
O: 432-221-0398 | **C**: 432-349-1911 | 3CC-2064 Midland, Texas

---

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, March 30, 2021 3:43 PM
To: besparza@concho.com
Subject: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 11012

**** External email. Use caution. ****

To whom it may concern (c/o Brittany Esparza for COG OPERATING LLC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2013962666,
with the following conditions:

- **The Remediation Plan is approved with the following conditions: All floor samples 0-4' need to be below closure criteria standards of <50' depth to groundwater from Table 1 of the spill rule. All floor samples >4' need to be below closure criteria standards of 51-100' depth to groundwater from Table 1 of the spill rule. Please make sure the edges/sidewalls are delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@state.nm.us

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

TETRA TECH

From: Tucker, Shelly J <stucker@blm.gov>
Sent: Tuesday, April 5, 2022 6:54 PM
To: Tavarez, Ike <Ike.Tavarez@conocophillips.com>
Cc: Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Subject: Re: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 11012 - Seabiscuit Federal Com 002H (05-02-2020) NRM2013962666

Based on current data and information that you have submitted to the BLM, BLM hereby approves the Work Plan submitted by Tetra Tech for the remedial activities regarding the Sea Biscuit Fed Com 002H. Please be aware of the following environmental stipulations:

Site Metrics:

1. ROW Company, Name & Number: **COG – Seabiscuit Federal Com 002H**
2. Release Date: 05.02.2020
3. GPS: -103.73285, 32.22546
4. The point of release occurred **within multiple ROW easements** which are **covered under a previous survey**, *no additional archeological surveys* will be required.
5. The release **did not impact any known archaeological area**.
6. This area **is** located within a **LOW karst zone** a karst survey **will not be required.**
7. This site is **cleared** of **flood zones, active playas, watershed, intermittent streams, etc.**
8. Site **is not** located within a **Special Status Plant Species** area. The site **will not require a survey**.
9. The site **is** located within a wildlife T&E species habitat – **Lessor Prairie Chicken** – **does not fall within LPC Timing Stips area.**
10. Area **is** located within *Shinnery Oak PDO.*
11. Soils are within the **Pyote and maljamar fine sands.**
12. BLM Seed Mix**: 2 – LPC Sand** will be required for remedial actions.
13. Area is noted to be within **0-3% slope**.
14. Site **is not** located within a *Special Area of concern*.
15. Site **is not** located within **ACEC**.
16. Site **is not** located within approved *Potash* development area.

Initial Stipulations:

1. Prior to any staging or excavation activities, all surveys (if required) must be completed, and you must have an approved Corrective Action Plan from the BLM and NMOCD.
2. KMZ of impacted site must be submitted.
3. A copy of the cleanup plan and conditions of approval must be given to the contractor or site work personnel and be present on the location during all cleanup operations.
4. The authorized officer **must be notified** at the following phases of cleanup or conditions**:**
    a. Prior to moving equipment on site for cleanup
    b. When the excavation is nearing completion and a BLM inspection of the excavation or witnessing of sampling is required by the cleanup plan COA's.
    c. When the remedial action is nearing completion, to schedule a final onsite **prior** to removal of equipment.

d. Three days **prior** to the site being seeded (if reseeding is required).
e. **Any time** that a variance of the approved plan or conditions of approval is required.
f. In the event that you encounter excavation difficulties, unexpected void areas, or archeological artifacts the Authorized Officer must be contacted immediately. An onsite may be required to assess the situation.
g. **24 hour sampling notification will be required prior to confirmation samples**.

5. You are **not authorized** to stage equipment nor work outside your approved easement. If this release has impacted areas outside of the authorized easement, you must contact the Authorized Officer for authorization to work outside of the authorized easement.

Cleanup Stipulations:

1. The BLM requires horizontal and vertical delineation of the spill impacted.
2. The BLM may wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of excavation bottom, sidewalls, and any visibly affected areas outside of the excavation trench will be required; the BLM may witness the sampling. Contact the authorized officer to schedule
3. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required, or the site may be approved for closure.
4. Once final approval of cleanup is given, the excavation can be backfilled with clean soil to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils. Reseed the impacted area with the sited Seed Mix listed in the Site Metrics section.
5. At the time of the final onsite for this location, the easement, access road, and the surrounding pasture areas must be in a condition that will pass a routine inspection.
6. All household trash, debris, disconnected pipe and equipment must be removed from the area and the surrounding pasture and hauled to an authorized landfill. Do not bury cleanup trash, equipment debris, or household garbage in the cleanup excavation.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Realty - Compliance

Bureau of Land Management
620 E. Greene St
Carlsbad, NM 88220

575.234.5706 - Direct
575.499.6831 - Mobile

stucker@blm.gov

From: Tavarez, Ike <Ike.Tavarez@conocophillips.com>
Sent: Monday, April 4, 2022 1:25 PM
To: Tucker, Shelly J <stucker@blm.gov>
Cc: Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Messer, Kelsey L <kmesser@blm.gov>
Subject: FW: [External] The Oil Conservation Division (OCD) has approved the application, Application ID: 11012 - Seabiscuit Federal Com 002H (05-02-2020) NRM2013962666

Shelly,

Hope everything is going well.

I have attached the proposed Work plan for the Seabiscuit Federal Com 002H (05-02-2020) NRM2013962666. The NMOCD has approve the plan and pending BLM approval. Currently, Tetra Tech is working on the project to setup an onsite meeting with the pipeline companies to determine if any excavation/remediation can be performed near their lines. I wanted the BLM to review and approve the work plan, prior to starting the remediation. Please call me if you have any questions or concerns on the plan, thanks

Ike Tavarez, P. G. | **Risk Management & Remediation** | **ConocoPhillips**
O:432-685-2573| **C:**432-701-8630 | 600 W. Illinois Avenue, Midland, Texas 79701

Jester, Steve

From: Jester, Steve
Sent: Monday, September 26, 2022 2:59 PM
To: Jonathan Midgley <jonathan.midgley@nglep.com>
Cc: Llull, Christian <Christian.Llull@tetratech.com>; Ike.Tavarez@conocophillips.com
Subject: NGL pipeline - ConocoPhillips Remediation Project
Importance: High

Jonathan,

This is to briefly recap our meeting today. We reviewed the remediation/reclamation work that ConocoPhillips is working on in proximity to the NGL pipeline along Buck Jackson Rd. We reviewed our investigation findings with you and sent you the data tables showing chloride, TPH and BTEX data in the shallow soil above and near the NGL pipeline (locations PL-3 through PL-13). Although chlorides exceeded NMOCD reclamation standards for 0-4 feet below ground surface in a couple of locations directly above the NGLpipeline, because of safety concerns, you agreed it would be best for any excavation work to stay at least 4 feet away from the NGL pipeline.

Please confirm this understanding by an email reply to us.

Best Regards,
Steve

Steve Jester | **Principal Consultant**
Cell 713-806-8871
Steve.Jester@tetratech.com

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1500 City West, #1000 | Houston, TX 77042
http://www.tetratech.com/en/oil-and-gas

Jester, Steve

From: Jester, Steve
Sent: Wednesday, December 7, 2022 5:43 PM
To: stucker@blm.gov
Cc: Ike.Tavarez@conocophillips.com; Llull, Christian; Jester, Steve
Subject: Identifying Owners of surface lines at Sea Biscuit Federal Com 002H flowline release
Attachments: Figure X-2 Revised Remediation_Seabiscuit_Zone2.pdf

Importance: High

Shelly

Regarding the remediation of this site, which you provided input on (see emails below), we have had input and communication with the owners of the underground utilities located at this site. They include NGL/Mesquite, Centurion, and DCP. However, we have had no luck identifying the owners of the surface lines that run through this BLM property along Buck Jackson Road, except for the one surface line owned by ConocoPhillips.

Before we embark on remediation activities, we have safety concerns about the potential to impact these surface lines. It would be greatly beneficial if we could identify the other surface line owners. There are several other black poly flow lines and one white (possibly fiber spar) line that run through the areas to be remediated. I have attached one figure, showing one of the remediation zones, and you can see the multitude of surface flow lines (shown in an aqua color), that are spread out over most of the soil remediation zone. We hope to identify the surface line owners, so that we can work with the, and ask them to move and consolidate their lines so that soil remediation can be done with much less potential for another incident.

Since these lines run through BLM-managed land, we thought that BLM would have had to grant easements or permission for the line owners to place their lines. If that is the case, we are hoping you have records of the line owners, and can provide that information to us.

The NMOCD incident number is: NRM2013962666
Site GPS coordinates are: (32.233011°, -103.72022°)
EDDY COUNTY, NEW MEXICO

Any help is appreciated, thanks!

Steve

Steve Jester | **Principal Consultant**
Cell 713-806-8871
Steve.Jester@tetratech.com

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1500 City West, #1000 | Houston, TX 77042
http://www.tetratech.com/en/oil-and-gas

From: Weathers, Stephen W
To: Jester, Steve
Cc: Tavarez, Ike; Llull, Christian; Weigand, Russell
Subject: DCP 4 ft setback required
Date: Tuesday, August 23, 2022 6:32:47 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png

I talked to Ops and lets stay around 4 feet away from our pipe. While you are doing the work, don't hesitate to reach out to me with any questions.

Steve Weathers, P.G.
Environmental Specialist
DCP Midstream, LP
6900 E. Layton Avenue - Suite 900
Denver, CO 80237
Cell 303.619.3042

From: Jester, Steve <STEVE.JESTER@tetratech.com>
Sent: Wednesday, August 17, 2022 10:32 AM
To: Weathers, Stephen W <SWWeathers@dcpmidstream.com>
Cc: Tavarez, Ike <Ike.Tavarez@conocophillips.com>; Llull, Christian <Christian.Llull@tetratech.com>; Weigand, Russell <Russell.Weigand@tetratech.com>; Jester, Steve <STEVE.JESTER@tetratech.com>
Subject: [EXTERNAL]RE: 1022 Line 3rd party leak- ConocoPhillips

Steve,

Per Ike's request, we would like to set up a Teams meeting with you to discuss the attached data and path forward for remediation of soils in the vicinity of the DCP pipeline as show on the attached figures. Do you have availability between now and Friday morning?

Thanks

Steve

Steve Jester | **Principal Consultant**
Cell 713-806-8871
Steve.Jester@tetratech.com
TETRA TECH | **Complex World, Clear Solutions™**
1500 City West, #1000 | Houston, TX 77042
http://www.tetratech.com/en/oil-and-gas

From: Tavarez, Ike <Ike.Tavarez@conocophillips.com>
Sent: Wednesday, August 17, 2022 10:53 AM
To: Jester, Steve <STEVE.JESTER@tetratech.com>
Subject: FW: [EXTERNAL]1022 Line 3rd party leak- Conoco

Steve,
Everything is fine. I just got the data from the pipeline sampling and currently reviewing the results. I have a meeting with Tetra Tech next week to discuss the data and path forward. I will have them send you the data and would like to setup a call with you to discuss, thanks
Get Outlook for iOS

From: Weathers, Stephen W <SWWeathers@dcpmidstream.com>
Sent: Wednesday, August 3, 2022 10:17:46 AM
To: Tavarez, Ike <Ike.Tavarez@conocophillips.com>
Subject: RE: [EXTERNAL]1022 Line 3rd party leak- Conoco
Hey Ike
Hope all is going well. Just curious on how the remediation is going ?
Thanks
Steve
Steve Weathers, P.G.
DCP Midstream, LP
6900 E. Layton Avenue - Suite 900
Denver, CO 80237
Office 303.605.1718
Cell 303.619.3042

From: Tavarez, Ike <Ike.Tavarez@conocophillips.com>
Sent: Wednesday, May 18, 2022 12:50 PM
To: Weathers, Stephen W <SWWeathers@dcpmidstream.com>
Subject: FW: [EXTERNAL]1022 Line 3rd party leak- Conoco

Steve,
I had a typo on your email.
Ike

From: Tavarez, Ike
Sent: Wednesday, May 18, 2022 1:45 PM
To: 'Britain, Jordan L' <JlBritain@dcpmidstream.com>
Cc: steve.jester@tetratech.com; 'CDabney@dcpmidstream.com' <CDabney@dcpmidstream.com>; 'wweathers@dcpmidstream.com' <wweathers@dcpmidstream.com>
Subject: RE: [EXTERNAL]1022 Line 3rd party leak- Conoco
Jordan,
Steve Weathers called me this morning to discuss the scope for the DCP pipeline. Steve agreed and approved the scope to move forward on the line hand spotting and sampling. Once we have the analytical data, COP will get with Steve Weathers to the review data and discuss the path forward for the remediation. We will let you know when Tetra Tech schedules the field activities. Please call me if you have any questions or need addition information, thanks
Ike Tavarez, P. G. | **Risk Management & Remediation** | **ConocoPhillips**
O:432-685-2573| **C:**432-701-8630 | 600 W. Illinois Avenue, Midland, Texas 79701

From: Tavarez, Ike
Sent: Thursday, May 12, 2022 10:22 AM
To: 'Britain, Jordan L' <JlBritain@dcpmidstream.com>
Cc: steve.jester@tetratech.com
Subject: RE: [EXTERNAL]1022 Line 3rd party leak- Conoco
Jordan,
COP would like to move forward on the remediation project. We will not start the remediation until you approve access around your line. As discussed below, we propose to hand spot your line and collect soil samples to determine if any impact is present directly on your line. Based on the evaluation, we will discuss the path forward for the remediation. Let me know if we can proceed with the evaluation or call me if you have any additional questions, thanks
Ike Tavarez, P. G. | **Risk Management & Remediation** | **ConocoPhillips**
O:432-685-2573| **C:**432-701-8630 | 600 W. Illinois Avenue, Midland, Texas 79701

From: Tavarez, Ike
Sent: Wednesday, April 13, 2022 1:42 PM
To: Britain, Jordan L <JlBritain@dcpmidstream.com>
Cc: steve.jester@tetratech.com
Subject: RE: [EXTERNAL]1022 Line 3rd party leak- Conoco
Jordan,
I have attached the approved work plan for your review. The COG release occurred from a leaking flowline that runs parallel to your line. The fluids (oil and produced water) migrated approximately 500' along the pipeline right-of-way. The impacted area is around the DCP (high pressure line) and NGL (18" produced water line). Based on the assessment (August 2020), the deepest chloride impact was detected was around 15' below surface. Prior to performing the assessment, DCP and NGL were notified to spot the underground lines.
Tetra Tech submitted a work plan and the plan was recently approved by the OCD and BLM. Conoco is moving forward on the project but wanted to discuss the remediation details with the pipeline companies in the area. Also, COP would like to provide the notification for the proposed remediation and determine DPC excavation policies for any excavation near your line.
As discussed, Tetra Tech (COP Consultant) will be managing the project and McNabb will be working under Tetra Tech as a subcontractor. McNabb will only

be performing the dirt work directed by Tetra Tech. We are open for discussion.
COP would like to propose additional evaluation around your line as shown below. Please review the proposed scope and lets setup a call to discuss, thanks
Proposed Scope

- Prior to sampling, the DCP line will be hand spotted.
- Assess the soil immediately around the DCP line to determine if any excavation will be required at the line.
- Soil sample will be collected using a hand auger (non-mechanical) to evaluate the shallow soils.
- Sampling results will be provided to DCP to review and determine path forward for the remediation.

Ike Tavarez, P. G. | **Risk Management & Remediation** | **ConocoPhillips**
O:432-685-2573| **C:**432-701-8630 | 600 W. Illinois Avenue, Midland, Texas 79701

From: Britain, Jordan L <JLBritain@dcpmidstream.com>
Sent: Tuesday, April 12, 2022 3:38 PM
To: STEVE.JESTER@tetratech.com; Joe.Tyler@tetratech.com; McNabb, Zac <Zac@mcnabbpartners.com>; scummings@PAALP.com; Bobby.Bailey@nglep.com; Sholar, Christopher S <CSSholar@dcpmidstream.com>; Tavarez, Ike <Ike.Tavarez@conocophillips.com>
Cc: Dabney, Claudia <CDabney@dcpmidstream.com>; Daly, Stacey <SDaly@dcpmidstream.com>; Case, Nicholas L <casen@dcpmidstream.com>; Cook, John W <JWCook@dcpmidstream.com>; Millican, Scot A <SAMillican@dcpmidstream.com>
Subject: [EXTERNAL]1022 Line 3rd party leak- Conoco

Ike,
I was contacted by DCP field tech, Chris Sholar, this morning about the line leak on DCP ROW at the intersection of HWY 128 and Buck Jackson Road. I was informed this is a CONOCO leak that occurred over 1 year ago and the produced water is fully saturated into the ground. Additionally, CONOCO will be using MCNABB Trucking to do the remediation and you have reached out on their behalf to see what remediation soil limits DCP expects when delieniation begins next week. I have that information below and after driving out to loaction and riding the line today, I also have a few questions.
How long has your line been shut out?
When was the first one call issued?
When was DCP first notified of this leak?
Below, is ≤50 depth to ground water remediation limits per NMOCD Guidelines Title 19 Chapter 15 Part 29. DCP finds MCNABB responsible for proving depth of groundwater, if further, please pull full chart from NMOCD to determine limits. With this remediation DCP REQUIRES chloride testing and sample results returned to the Environmental department for further analysis before backfill. (myself and Nick Case, cc'd here).

Table I — Closure Criteria for Soils Impacted by a Release

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Notes:
1) Soil closure criteria based on NMOCD Guidelines Title 19 Chapter 15 Part 29
2) TPH calculated by adding GRO, DRO and MRO (Ext Hydrocarbons) concentrations.
* Or other test methods approved by the NMOCD.
** Numerical limits or natural background level, whichever is greater.
*** This applies to releases of produced water or other fluids, which may contain chloride.

GRO - Gasoline range organics
DRO - Diesel range organics
mg/kg - Milligrams per kilogram
mg/l - Milligrams per liter
TDS - Total dissolved solids
TPH - Total volatile and extractable petroleum hydrocarbons

Thank you,
Jordan Britain
Environmental Eng/Specialist II
DCP Midstream
575-361-1307 (C)
575-234-6414 (O)
5301 Sierra Vista Drive

Poole, Nicholas

From: Jonathan Midgley <jonathan.midgley@nglep.com>
Sent: Thursday, August 22, 2024 11:01 AM
To: Poole, Nicholas
Cc: Llull, Christian
Subject: Re: [EXTERNAL] NGL Pipeline - ConocoPhillips Seabiscuit Release Remediation Project

We require a rep be present for mechanical digging within 10ft of our line also within 18in of our line there will be no mechanical digging and must use a hydro vac

Jonathan Midgley | Senior Director DCC/Pipeline Operations
NGL Water Solutions
24 Smith Road Suite 304 | Midland, TX79705
Cell: (951)837-1940 jonathan.midgley@nglep.com

On Aug 22, 2024, at 9:34 AM, Poole, Nicholas <NICHOLAS.POOLE@tetratech.com> wrote:

Jonathan,

Thank you for taking our call to discuss our proposed remediation in proximity to your NGL/Mesquite pipeline.
This is a legacy release that occurred off Buck Jackson Road in 2020.
The footprint occurred in the bar ditch between the road and the pasture fence. See attached kmz and figures.

ConocoPhillips (COG Operating LLC)
Seabiscuit Federal Com #002H Flowline Release
Lea County, New Mexico
32.232518°, -103.720655°

This email serves to briefly recap previous meetings between Steve Jester (former Tetra Tech PM) and yourself in September 2022 (please see attached correspondence).
A previous WP was submitted for this release, and the most recent submittal has been rejected by OCD.
We reviewed the rejected remediation/reclamation work plan.
Areas in proximity to your NGL pipeline along Buck Jackson Rd contain soils exceeding the reclamation limits within the upper four feet.
Our plan to submit a revised Work Plan to OCD, pending your correspondence.

To recap: Back in 2022, Tetra Tech reviewed our investigation findings with you and provided you the data tables indicating chloride, TPH and BTEX data in the shallow soil above and near the NGL pipeline (locations PL-3 through PL-13).
Please see attached figure and data table Concerns emerged about encroachment of the NGL/Mesquite pipeline (located at relatively shallow depth) during any proposed remedial action, and the ability to safely excavate impacted soils in proximity to this operating pipeline in such a restricted access area.

Although chlorides exceeded NMOCD reclamation standards for 0-4 feet below ground surface in a couple of locations directly above the NGL pipeline, because of safety concerns, our understanding was that you had previously agreed it would be best for any excavation work to stay at least 4 feet away from the NGL pipeline.

Based on the conversation this morning, Tetra Tech is requesting written documentation from NGL regarding the stipulations of any work that would need to occur in the vicinity of the subsurface line.
Please note that if NGL would agree to leave impact in place in the vicinity of the NGL pipeline, NGL would be responsible for future remediation/reclamation of the right of way.
Within the OCD correspondence, it is noted that *19.15.29.13 NMAC will be implemented at time of abandonment of the pipeline.*

If you would like to discuss further, I can be reached by phone or email anytime.

Please respond in writing with your comments.
If you agree to the 4' setback of the NGL/Mesquite line, please include your affirmative response in a reply email, along with your title and contact information.
This email response will be included in our OCD correspondence, and will become a portion of the incident records.

Best Regards,

Nicholas Poole, GIT | Project Manager & Office Health & Safety Representative
Mobile **+1 (512) 560-9064** | nicholas.poole@tetratech.com

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8911 N. Capital of Texas Highway | Bldg. 2, Suite 2310 | Austin, TX 78759 | tetratech.com

<image001.png>

<image002.png>

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<image004.png>
Please consider the environment before printing. Read more
<image005.png>

<9.26.22 Email to Mesquite NGL.pdf>
<Figure 5A Add Assess July_Seabiscuit.pdf>
<Figure 5B Add Assess July_Seabiscuit.pdf>
<Seabiscuit Federal Com #002H.kmz>
<Tables.pdf>

From: Jonathan Midgley
To: Jester, Steve
Subject: Re: [EXTERNAL] RE: NGL pipeline - ConocoPhillips Remediation Project
Date: Wednesday, May 10, 2023 2:27:09 PM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png

Yes sir

Thanks
Jonathan Midgley

> On May 10, 2023, at 12:23 PM, Jester, Steve <STEVE.JESTER@tetratech.com> wrote:
>
> Jonathan,
>
> Checking to see if your email address is still active….
> Steve
>
> **Steve Jester** | **Principal Consultant**
> Cell 713-806-8871
> Steve.Jester@tetratech.com
>
> **TETRA TECH** | **Complex World, Clear Solutions™**
> 1500 City West, #1000 | Houston, TX 77042
> http://www.tetratech.com/en/oil-and-gas
>
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> <image001.png>
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> <image003.png>
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> <image004.png>
> Please consider the environment before printing. Read more
>
> <image005.png>

From: Jester, Steve
Sent: Monday, September 26, 2022 2:59 PM
To: Jonathan Midgley <jonathan.midgley@nglep.com>
Cc: Llull, Christian <Christian.Llull@tetratech.com>; Ike.Tavarez@conocophillips.com
Subject: NGL pipeline - ConocoPhillips Remediation Project
Importance: High

Jonathan,

This is to briefly recap our meeting today. We reviewed the remediation/reclamation work that ConocoPhillips is working on in proximity to the NGL pipeline along Buck Jackson Rd. We reviewed our investigation findings with you and sent you the data tables showing chloride, TPH and BTEX data in the shallow soil above and near the NGL pipeline (locations PL-3 through PL-13). Although chlorides exceeded NMOCD reclamation standards for 0-4 feet below ground surface in a couple of locations directly above the NGLpipeline, because of safety concerns, you agreed it would be best for any excavation work to stay at least 4 feet away from the NGL pipeline.

Please confirm this understanding by an email reply to us.

Best Regards,
Steve

Steve Jester | **Principal Consultant**
Cell 713-806-8871
Steve.Jester@tetratech.com

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1500 City West, #1000 | Houston, TX 77042
http://www.tetratech.com/en/oil-and-gas

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Please consider the environment before printing. Read more

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APPENDIX D
Laboratory Data

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Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-001		666260-002		666260-003		666260-004		666260-005		666260-006	
	Field Id:	Trench 1 (0-1')		Trench 1 (1')		Trench 1 (2')		Trench 1 (3')		Trench 1 (4')		Trench 1 (5')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	** ** ** **											
	Analyzed:	07.03.2020 05:57											
	Units/RL:	mg/kg	RL										
Benzene		<0.00199	0.00199										
Toluene		<0.00199	0.00199										
Ethylbenzene		<0.00199	0.00199										
m,p-Xylenes		<0.00398	0.00398										
o-Xylene		<0.00199	0.00199										
Total Xylenes		<0.00199	0.00199										
Total BTEX		<0.00199	0.00199										
Chloride by EPA 300	***Extracted:***	07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35	
	Analyzed:	07.06.2020 17:58		07.06.2020 18:04		07.06.2020 18:10		07.06.2020 18:28		07.06.2020 18:34		07.06.2020 18:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3280	25.0	4460	25.3	2530	24.8	5980	50.0	7930	49.8	23100	251
TPH by SW8015 Mod	***Extracted:***	07.03.2020 10:00		07.08.2020 16:30									
	Analyzed:	07.03.2020 17:34		07.09.2020 07:07									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	169	49.9								
Diesel Range Organics (DRO)		470 X	50.0	1230	49.9								
Motor Oil Range Hydrocarbons (MRO)		58.3	50.0	179	49.9								
Total TPH		528	50.0	1580	49.9								

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Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-007		666260-008		666260-009		666260-010		666260-011		666260-012	
	Field Id:	Trench 1 (6')		Trench 2 (0-1')		Trench 2 (1')		Trench 2 (2')		Trench 2 (3')		Trench 2 (4')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
BTEX by EPA 8021B	***Extracted:***			** ** ** **									
	Analyzed:			07.03.2020 06:18									
	Units/RL:			mg/kg	RL								
Benzene				<0.00199	0.00199								
Toluene				<0.00199	0.00199								
Ethylbenzene				<0.00199	0.00199								
m,p-Xylenes				<0.00398	0.00398								
o-Xylene				<0.00199	0.00199								
Total Xylenes				<0.00199	0.00199								
Total BTEX				<0.00199	0.00199								
Chloride by EPA 300	***Extracted:***	07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35	
	Analyzed:	07.06.2020 18:45		07.06.2020 18:51		07.06.2020 19:15		07.06.2020 19:20		07.06.2020 19:38		07.06.2020 19:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		6100	49.6	6990	49.5	2640	25.0	7080	50.4	9940	49.8	22700	248
TPH by SW8015 Mod	***Extracted:***			07.03.2020 10:00									
	Analyzed:			07.03.2020 18:30									
	Units/RL:			mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)				<50.0	50.0								
Diesel Range Organics (DRO)				<50.0	50.0								
Motor Oil Range Hydrocarbons (MRO)				<50.0	50.0								
Total TPH				<50.0	50.0								

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

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Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-013		666260-014		666260-015		666260-016		666260-017		666260-018	
	Field Id:	Trench 4 (0-1')		Trench 4 (1')		Trench 4 (2')		Trench 4 (3')		Trench 4 (4')		Trench 6 (0-1')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	** ** ** **										** ** ** **	
	Analyzed:	07.03.2020 06:38										07.03.2020 06:59	
	Units/RL:	mg/kg	RL									mg/kg	RL
Benzene		<0.00200	0.00200									<0.00200	0.00200
Toluene		<0.00200	0.00200									<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200									<0.00200	0.00200
m,p-Xylenes		<0.00400	0.00400									<0.00400	0.00400
o-Xylene		<0.00200	0.00200									<0.00200	0.00200
Total Xylenes		<0.00200	0.00200									<0.00200	0.00200
Total BTEX		<0.00200	0.00200									<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 15:35		07.06.2020 16:00	
	Analyzed:	07.06.2020 19:50		07.06.2020 19:56		07.06.2020 20:01		07.06.2020 20:07		07.06.2020 20:13		07.06.2020 16:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		6180	50.5	6160	50.5	6530	50.5	6050	49.8	37300	250	8590	49.6
TPH by SW8015 Mod	***Extracted:***	07.03.2020 10:00										07.03.2020 10:00	
	Analyzed:	07.03.2020 18:49										07.03.2020 19:08	
	Units/RL:	mg/kg	RL									mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0									<49.9	49.9
Diesel Range Organics (DRO)		84.2	50.0									<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0									<49.9	49.9
Total TPH		84.2	50.0									<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

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Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested		666260-019		666260-020		666260-021		666260-022		666260-023		666260-024	
	Lab Id:												
	Field Id:	Trench 6 (1')		Trench 6 (2')		Trench 6 (3')		Trench 6 (4')		Trench 8 (0-1')		Trench 8 (1')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
BTEX by EPA 8021B	*Extracted:*									** ** ** **			
	Analyzed:									07.03.2020 07:19			
	Units/RL:									mg/kg	RL		
Benzene										<0.00201	0.00201		
Toluene										<0.00201	0.00201		
Ethylbenzene										<0.00201	0.00201		
m,p-Xylenes										<0.00402	0.00402		
o-Xylene										<0.00201	0.00201		
Total Xylenes										<0.00201	0.00201		
Total BTEX										<0.00201	0.00201		
Chloride by EPA 300	*Extracted:*	07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00	
	Analyzed:	07.06.2020 16:54		07.06.2020 17:00		07.06.2020 17:06		07.06.2020 17:25		07.06.2020 17:32		07.06.2020 17:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5460	49.9	5770	50.2	9560	50.5	8400	50.5	2780	24.9	683	4.99
TPH by SW8015 Mod	*Extracted:*									07.03.2020 10:00		07.08.2020 16:30	
	Analyzed:									07.03.2020 19:26		07.09.2020 07:26	
	Units/RL:									mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)										<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)										343	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)										59.5	50.0	<49.9	49.9
Total TPH										403	50.0	<49.9	49.9

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Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-025		666260-026		666260-027		666260-028		666260-029		666260-030	
	Field Id:	Trench 8 (2')		Trench 8 (3')		Trench 8 (4')		Trench 8 (5')		Trench 8 (6')		Trench 8 (7')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
Chloride by EPA 300	***Extracted:***	07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00	
	Analyzed:	07.06.2020 17:44		07.06.2020 17:51		07.06.2020 18:16		07.06.2020 18:23		07.06.2020 18:42		07.06.2020 18:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		791	4.95	1880	25.1	8900	50.0	22400	250	16200	99.4	22000	248

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Jessica Kramer

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Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-031		666260-032		666260-033		666260-034		666260-035		666260-036	
	Field Id:	Trench 8 (8')		Trench 8 (9')		Trench 8 (10')		Trench 9 (0-1')		Trench 9 (1')		Trench 9 (2')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
BTEX by EPA 8021B	***Extracted:***							07.02.2020 17:00					
	Analyzed:							07.03.2020 07:40					
	Units/RL:							mg/kg	RL				
Benzene								<0.00200	0.00200				
Toluene								<0.00200	0.00200				
Ethylbenzene								<0.00200	0.00200				
m,p-Xylenes								<0.00401	0.00401				
o-Xylene								<0.00200	0.00200				
Total Xylenes								<0.00200	0.00200				
Total BTEX								<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00		07.06.2020 16:00	
	Analyzed:	07.06.2020 18:54		07.06.2020 19:01		07.06.2020 19:07		07.06.2020 19:13		07.06.2020 19:20		07.06.2020 16:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		23100	252	23000	248	27200	248	514	5.03	73.6	4.97	98.2	5.00
TPH by SW8015 Mod	***Extracted:***							07.03.2020 10:00		07.08.2020 16:30			
	Analyzed:							07.03.2020 19:45		07.09.2020 07:44			
	Units/RL:							mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)								<49.8	49.8	<49.9	49.9		
Diesel Range Organics (DRO)								246	49.8	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)								50.6	49.8	<49.9	49.9		
Total TPH								297	49.8	<49.9	49.9		

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Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	666260-037		666260-038		666260-039		666260-040		666260-041		666260-042	
	Field Id:	Trench 9 (3')		Trench 9 (4')		Trench 9 (5')		Trench 9 (6')		Trench 9 (7')		Trench 9 (8')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00		07.02.2020 00:00	
Chloride by EPA 300	***Extracted:***	07.06.2020 16:00		07.06.2020 16:30		07.06.2020 16:30		07.06.2020 16:30		07.06.2020 16:30		07.06.2020 16:30	
	Analyzed:	07.06.2020 17:57		07.06.2020 20:17		07.06.2020 20:23		07.06.2020 20:30		07.06.2020 20:36		07.06.2020 20:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		562 X	5.04	21400	253	25800	250	19800	248	23800	252	15900	249

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Jessica Kramer

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Certificate of Analysis Summary 666260

Tetra Tech- Midland, Midland, TX

Project Name: Sea Biscuit (5.20.20)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Thu 07.02.2020 16:27
Report Date: 07.09.2020 14:29
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	666260-043		666260-044					
	Field Id:	Trench 9 (9')		Trench 9 (10')					
	Depth:								
	Matrix:	SOIL		SOIL					
	Sampled:	07.02.2020 00:00		07.02.2020 00:00					
Chloride by EPA 300	***Extracted:***	07.06.2020 16:30		07.06.2020 16:30					
	Analyzed:	07.06.2020 21:01		07.06.2020 21:08					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		16400	100	14900	99.4				

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

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Analytical Report 666260

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Sea Biscuit (5.20.20)

212C-MD-02226

07.09.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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07.09.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **666260**
Sea Biscuit (5.20.20)
Project Address: Lea Co, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 666260. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 666260 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

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Sample Cross Reference 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Trench 1 (0-1')	S	07.02.2020 00:00		666260-001
Trench 1 (1')	S	07.02.2020 00:00		666260-002
Trench 1 (2')	S	07.02.2020 00:00		666260-003
Trench 1 (3')	S	07.02.2020 00:00		666260-004
Trench 1 (4')	S	07.02.2020 00:00		666260-005
Trench 1 (5')	S	07.02.2020 00:00		666260-006
Trench 1 (6')	S	07.02.2020 00:00		666260-007
Trench 2 (0-1')	S	07.02.2020 00:00		666260-008
Trench 2 (1')	S	07.02.2020 00:00		666260-009
Trench 2 (2')	S	07.02.2020 00:00		666260-010
Trench 2 (3')	S	07.02.2020 00:00		666260-011
Trench 2 (4')	S	07.02.2020 00:00		666260-012
Trench 4 (0-1')	S	07.02.2020 00:00		666260-013
Trench 4 (1')	S	07.02.2020 00:00		666260-014
Trench 4 (2')	S	07.02.2020 00:00		666260-015
Trench 4 (3')	S	07.02.2020 00:00		666260-016
Trench 4 (4')	S	07.02.2020 00:00		666260-017
Trench 6 (0-1')	S	07.02.2020 00:00		666260-018
Trench 6 (1')	S	07.02.2020 00:00		666260-019
Trench 6 (2')	S	07.02.2020 00:00		666260-020
Trench 6 (3')	S	07.02.2020 00:00		666260-021
Trench 6 (4')	S	07.02.2020 00:00		666260-022
Trench 8 (0-1')	S	07.02.2020 00:00		666260-023
Trench 8 (1')	S	07.02.2020 00:00		666260-024
Trench 8 (2')	S	07.02.2020 00:00		666260-025
Trench 8 (3')	S	07.02.2020 00:00		666260-026
Trench 8 (4')	S	07.02.2020 00:00		666260-027
Trench 8 (5')	S	07.02.2020 00:00		666260-028
Trench 8 (6')	S	07.02.2020 00:00		666260-029
Trench 8 (7')	S	07.02.2020 00:00		666260-030
Trench 8 (8')	S	07.02.2020 00:00		666260-031
Trench 8 (9')	S	07.02.2020 00:00		666260-032
Trench 8 (10')	S	07.02.2020 00:00		666260-033
Trench 9 (0-1')	S	07.02.2020 00:00		666260-034
Trench 9 (1')	S	07.02.2020 00:00		666260-035
Trench 9 (2')	S	07.02.2020 00:00		666260-036
Trench 9 (3')	S	07.02.2020 00:00		666260-037
Trench 9 (4')	S	07.02.2020 00:00		666260-038
Trench 9 (5')	S	07.02.2020 00:00		666260-039
Trench 9 (6')	S	07.02.2020 00:00		666260-040
Trench 9 (7')	S	07.02.2020 00:00		666260-041
Trench 9 (8')	S	07.02.2020 00:00		666260-042
Trench 9 (9')	S	07.02.2020 00:00		666260-043

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Sample Cross Reference 666260

Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Trench 9 (10')	S	07.02.2020 00:00	666260-044

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CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Sea Biscuit (5.20.20)

Project ID: *212C-MD-02226*
Work Order Number(s): *666260*

Report Date: *07.09.2020*
Date Received: *07.02.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3130738 BTEX by EPA 8021B

Middle and closing CCVs failed high on benzene indicating potential high bias on data for that analyte; only non-detect benzene samples were reported.

Batch: LBA-3130741 TPH by SW8015 Mod

Lab Sample ID 666260-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Diesel Range Organics (DRO) recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 666260-001, -008, -013, -018, -023, -034.

The Laboratory Control Sample for Diesel Range Organics (DRO) is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3130868 Chloride by EPA 300

Lab Sample ID 666260-037 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 666260-018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -035, -036, -037.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3131136 TPH by SW8015 Mod

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

Samples affected are: 666260-002.

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 1 (0-1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-001 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 15:35 Basis: Wet Weight

Seq Number: 3130865

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3280**	25.0	mg/kg	07.06.2020 17:58		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.03.2020 10:00 Basis: Wet Weight

Seq Number: 3130741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.03.2020 17:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	**470**	50.0	mg/kg	07.03.2020 17:34	X	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**58.3**	50.0	mg/kg	07.03.2020 17:34		1
Total TPH	PHC635	**528**	50.0	mg/kg	07.03.2020 17:34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	07.03.2020 17:34	
o-Terphenyl	84-15-1	113	%	70-130	07.03.2020 17:34	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-001	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	07.02.2020 16:00	Basis:	Wet Weight
Seq Number:	3130755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.03.2020 05:57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.03.2020 05:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	07.03.2020 05:57	
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.03.2020 05:57	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 1 (1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-002 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 15:35 Basis: Wet Weight

Seq Number: 3130865

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4460**	25.3	mg/kg	07.06.2020 18:04		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.08.2020 16:30 Basis: Wet Weight

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**169**	49.9	mg/kg	07.09.2020 07:07		1
Diesel Range Organics (DRO)	C10C28DRO	**1230**	49.9	mg/kg	07.09.2020 07:07		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**179**	49.9	mg/kg	07.09.2020 07:07		1
Total TPH	PHC635	**1580**	49.9	mg/kg	07.09.2020 07:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	07.09.2020 07:07	
o-Terphenyl	84-15-1	139	%	70-130	07.09.2020 07:07	**

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-003	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2530**	24.8	mg/kg	07.06.2020 18:10		5

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-004	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5980**	50.0	mg/kg	07.06.2020 18:28		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-005	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7930**	49.8	mg/kg	07.06.2020 18:34		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (5')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-006	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23100**	251	mg/kg	07.06.2020 18:39		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 1 (6')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-007	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6100**	49.6	mg/kg	07.06.2020 18:45		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 2 (0-1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-008 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 15:35 Basis: Wet Weight

Seq Number: 3130865

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6990**	49.5	mg/kg	07.06.2020 18:51		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.03.2020 10:00 Basis: Wet Weight

Seq Number: 3130741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.03.2020 18:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.03.2020 18:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.03.2020 18:30	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.03.2020 18:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	07.03.2020 18:30	
o-Terphenyl	84-15-1	105	%	70-130	07.03.2020 18:30	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 2 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-008	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	07.02.2020 16:00	Basis:	Wet Weight
Seq Number:	3130755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.03.2020 06:18	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.03.2020 06:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	07.03.2020 06:18	
1,4-Difluorobenzene	540-36-3	109	%	70-130	07.03.2020 06:18	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 2 (1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-009	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2640**	25.0	mg/kg	07.06.2020 19:15		5

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 2 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-010	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7080**	50.4	mg/kg	07.06.2020 19:20		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 2 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-011	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9940**	49.8	mg/kg	07.06.2020 19:38		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 2 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-012	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22700**	248	mg/kg	07.06.2020 19:44		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 4 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-013	Date Collected:	07.02.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6180**	50.5	mg/kg	07.06.2020 19:50		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.03.2020 10:00	Basis:	Wet Weight
Seq Number:	3130741				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.03.2020 18:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	**84.2**	50.0	mg/kg	07.03.2020 18:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.03.2020 18:49	U	1
Total TPH	PHC635	**84.2**	50.0	mg/kg	07.03.2020 18:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	07.03.2020 18:49	
o-Terphenyl	84-15-1	104	%	70-130	07.03.2020 18:49	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 4 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-013	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	07.02.2020 16:00	Basis:	Wet Weight
Seq Number:	3130755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.03.2020 06:38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.03.2020 06:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	07.03.2020 06:38	
4-Bromofluorobenzene	460-00-4	99	%	70-130	07.03.2020 06:38	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 4 (1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-014	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6160**	50.5	mg/kg	07.06.2020 19:56		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 4 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-015	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6530**	50.5	mg/kg	07.06.2020 20:01		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 4 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-016	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6050**	49.8	mg/kg	07.06.2020 20:07		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 4 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-017	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 15:35	Basis:	Wet Weight
Seq Number:	3130865				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**37300**	250	mg/kg	07.06.2020 20:13		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 6 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-018	Date Collected:	07.02.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8590**	49.6	mg/kg	07.06.2020 16:47		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.03.2020 10:00	Basis:	Wet Weight
Seq Number:	3130741				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.03.2020 19:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.03.2020 19:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.03.2020 19:08	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.03.2020 19:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	07.03.2020 19:08	
o-Terphenyl	84-15-1	104	%	70-130	07.03.2020 19:08	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 6 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-018	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	07.02.2020 16:00	Basis:	Wet Weight
Seq Number:	3130755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.03.2020 06:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.03.2020 06:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.03.2020 06:59	
1,4-Difluorobenzene	540-36-3	109	%	70-130	07.03.2020 06:59	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 6 (1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-019	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5460**	49.9	mg/kg	07.06.2020 16:54		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 6 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-020	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5770**	50.2	mg/kg	07.06.2020 17:00		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 6 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-021	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9560**	50.5	mg/kg	07.06.2020 17:06		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 6 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-022	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8400**	50.5	mg/kg	07.06.2020 17:25		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-023	Date Collected:	07.02.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2780**	24.9	mg/kg	07.06.2020 17:32		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.03.2020 10:00	Basis:	Wet Weight
Seq Number:	3130741				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.03.2020 19:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	**343**	50.0	mg/kg	07.03.2020 19:26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**59.5**	50.0	mg/kg	07.03.2020 19:26		1
Total TPH	PHC635	**403**	50.0	mg/kg	07.03.2020 19:26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	07.03.2020 19:26	
o-Terphenyl	84-15-1	116	%	70-130	07.03.2020 19:26	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-023	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	07.02.2020 16:00	Basis:	Wet Weight
Seq Number:	3130755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.03.2020 07:19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.03.2020 07:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	07.03.2020 07:19	
1,4-Difluorobenzene	540-36-3	104	%	70-130	07.03.2020 07:19	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 8 (1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-024 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 16:00 Basis: Wet Weight

Seq Number: 3130868

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**683**	4.99	mg/kg	07.06.2020 17:38		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.08.2020 16:30 Basis: Wet Weight

Seq Number: 3131136

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.09.2020 07:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.09.2020 07:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.09.2020 07:26	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.09.2020 07:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	07.09.2020 07:26	
o-Terphenyl	84-15-1	122	%	70-130	07.09.2020 07:26	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-025	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**791**	4.95	mg/kg	07.06.2020 17:44		1

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-026	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1880**	25.1	mg/kg	07.06.2020 17:51		5

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-027	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8900**	50.0	mg/kg	07.06.2020 18:16		10

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (5')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-028	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22400**	250	mg/kg	07.06.2020 18:23		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (6')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-029	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16200**	99.4	mg/kg	07.06.2020 18:42		20

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (7')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-030	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22000**	248	mg/kg	07.06.2020 18:48		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (8')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-031	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23100**	252	mg/kg	07.06.2020 18:54		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (9')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-032	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23000**	248	mg/kg	07.06.2020 19:01		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 8 (10')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-033	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**27200**	248	mg/kg	07.06.2020 19:07		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id: **Trench 9 (0-1')** Matrix: Soil Date Received:07.02.2020 16:27

Lab Sample Id: 666260-034 Date Collected: 07.02.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 07.06.2020 16:00 Basis: Wet Weight

Seq Number: 3130868

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**514**	5.03	mg/kg	07.06.2020 19:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 07.03.2020 10:00 Basis: Wet Weight

Seq Number: 3130741

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.03.2020 19:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	**246**	49.8	mg/kg	07.03.2020 19:45		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**50.6**	49.8	mg/kg	07.03.2020 19:45		1
Total TPH	PHC635	**297**	49.8	mg/kg	07.03.2020 19:45		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	07.03.2020 19:45	
o-Terphenyl	84-15-1	109	%	70-130	07.03.2020 19:45	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (0-1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-034	Date Collected:	07.02.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	07.02.2020 17:00	Basis:	Wet Weight
Seq Number:	3130738				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.03.2020 07:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.03.2020 07:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125	%	70-130	07.03.2020 07:40	
1,4-Difluorobenzene	540-36-3	88	%	70-130	07.03.2020 07:40	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (1')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-035	Date Collected:	07.02.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**73.6**	4.97	mg/kg	07.06.2020 19:20		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	07.08.2020 16:30	Basis:	Wet Weight
Seq Number:	3131136				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.09.2020 07:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.09.2020 07:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.09.2020 07:44	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.09.2020 07:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	07.09.2020 07:44	
o-Terphenyl	84-15-1	118	%	70-130	07.09.2020 07:44	

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (2')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-036	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**98.2**	5.00	mg/kg	07.06.2020 16:28		1

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (3')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-037	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:00	Basis:	Wet Weight
Seq Number:	3130868				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**562**	5.04	mg/kg	07.06.2020 17:57	X	1

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (4')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-038	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21400**	253	mg/kg	07.06.2020 20:17		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (5')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-039	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**25800**	250	mg/kg	07.06.2020 20:23		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (6')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-040	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19800**	248	mg/kg	07.06.2020 20:30		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (7')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-041	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23800**	252	mg/kg	07.06.2020 20:36		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (8')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-042	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**15900**	249	mg/kg	07.06.2020 20:55		50

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (9')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-043	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16400**	100	mg/kg	07.06.2020 21:01		20

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Tetra Tech- Midland, Midland, TX

Sea Biscuit (5.20.20)

Sample Id:	**Trench 9 (10')**	Matrix:	Soil	Date Received:	07.02.2020 16:27
Lab Sample Id:	666260-044	Date Collected:	07.02.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	07.06.2020 16:30	Basis:	Wet Weight
Seq Number:	3130870				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14900**	99.4	mg/kg	07.06.2020 21:08		20

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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

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QC Summary 666260

Tetra Tech- Midland

Sea Biscuit (5.20.20)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130865 — Matrix: Solid — Date Prep: 07.06.2020
MB Sample Id: 7706805-1-BLK — LCS Sample Id: 7706805-1-BKS — LCSD Sample Id: 7706805-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	243	97	245	98	90-110	1	20	mg/kg	07.06.2020 17:23	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130868 — Matrix: Solid — Date Prep: 07.06.2020
MB Sample Id: 7706806-1-BLK — LCS Sample Id: 7706806-1-BKS — LCSD Sample Id: 7706806-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	242	97	242	97	90-110	0	20	mg/kg	07.06.2020 16:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130870 — Matrix: Solid — Date Prep: 07.06.2020
MB Sample Id: 7706807-1-BLK — LCS Sample Id: 7706807-1-BKS — LCSD Sample Id: 7706807-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	236	94	236	94	90-110	0	20	mg/kg	07.06.2020 19:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130865 — Matrix: Solid — Date Prep: 07.06.2020
Parent Sample Id: 666308-001 — MS Sample Id: 666308-001 S — MSD Sample Id: 666308-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.8	248	258	98	259	99	90-110	0	20	mg/kg	07.06.2020 17:41	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130865 — Matrix: Solid — Date Prep: 07.06.2020
Parent Sample Id: 666309-001 — MS Sample Id: 666309-001 S — MSD Sample Id: 666309-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	260	249	496	95	501	97	90-110	1	20	mg/kg	07.06.2020 19:03	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130868 — Matrix: Soil — Date Prep: 07.06.2020
Parent Sample Id: 666260-036 — MS Sample Id: 666260-036 S — MSD Sample Id: 666260-036 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	98.2	250	347	100	347	100	90-110	0	20	mg/kg	07.06.2020 16:35	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 666260

Tetra Tech- Midland

Sea Biscuit (5.20.20)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130868 — Matrix: Soil — Date Prep: 07.06.2020
Parent Sample Id: 666260-037 — MS Sample Id: 666260-037 S — MSD Sample Id: 666260-037 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	562	252	778	86	781	87	90-110	0	20	mg/kg	07.06.2020 18:04	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130870 — Matrix: Soil — Date Prep: 07.06.2020
Parent Sample Id: 666164-050 — MS Sample Id: 666164-050 S — MSD Sample Id: 666164-050 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	295	252	551	102	540	97	90-110	2	20	mg/kg	07.06.2020 20:04	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3130870 — Matrix: Soil — Date Prep: 07.06.2020
Parent Sample Id: 666164-052 — MS Sample Id: 666164-052 S — MSD Sample Id: 666164-052 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	224	250	470	98	466	97	90-110	1	20	mg/kg	07.06.2020 21:33	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3130741 — Matrix: Solid — Date Prep: 07.03.2020
MB Sample Id: 7706721-1-BLK — LCS Sample Id: 7706721-1-BKS — LCSD Sample Id: 7706721-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1080	108	923	92	70-130	16	20	mg/kg	07.03.2020 16:56	
Diesel Range Organics (DRO)	<50.0	1000	1150	115	961	96	70-130	18	20	mg/kg	07.03.2020 16:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		128		123		70-130	%	07.03.2020 16:56
o-Terphenyl	100		130		114		70-130	%	07.03.2020 16:56

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3131136 — Matrix: Solid — Date Prep: 07.08.2020
MB Sample Id: 7706973-1-BLK — LCS Sample Id: 7706973-1-BKS — LCSD Sample Id: 7706973-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1090	109	1100	110	70-130	1	20	mg/kg	07.09.2020 01:13	
Diesel Range Organics (DRO)	<50.0	1000	1110	111	1110	111	70-130	0	20	mg/kg	07.09.2020 01:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		126		127		70-130	%	07.09.2020 01:13
o-Terphenyl	115		120		121		70-130	%	07.09.2020 01:13

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

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

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

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QC Summary 666260

Tetra Tech- Midland

Sea Biscuit (5.20.20)

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3130741 Matrix: Solid Date Prep: 07.03.2020
MB Sample Id: 7706721-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.03.2020 16:38	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3131136 Matrix: Solid Date Prep: 07.08.2020
MB Sample Id: 7706973-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.09.2020 00:54	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3130741 Matrix: Soil Date Prep: 07.03.2020
Parent Sample Id: 666260-001 MS Sample Id: 666260-001 S MSD Sample Id: 666260-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	928	93	978	98	70-130	5	20	mg/kg	07.03.2020 17:53	
Diesel Range Organics (DRO)	470	997	967	50	977	51	70-130	1	20	mg/kg	07.03.2020 17:53	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		113		70-130	%	07.03.2020 17:53
o-Terphenyl	112		113		70-130	%	07.03.2020 17:53

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3131136 Matrix: Soil Date Prep: 07.08.2020
Parent Sample Id: 666538-001 MS Sample Id: 666538-001 S MSD Sample Id: 666538-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	975	98	954	95	70-130	2	20	mg/kg	07.09.2020 02:10	
Diesel Range Organics (DRO)	<49.8	996	997	100	987	99	70-130	1	20	mg/kg	07.09.2020 02:10	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	126		125		70-130	%	07.09.2020 02:10
o-Terphenyl	120		117		70-130	%	07.09.2020 02:10

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

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

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

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QC Summary 666260

Tetra Tech- Midland

Sea Biscuit (5.20.20)

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3130755 — Matrix: Solid — Date Prep: 07.02.2020
MB Sample Id: 7706740-1-BLK — LCS Sample Id: 7706740-1-BKS — LCSD Sample Id: 7706740-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.104	104	0.101	101	70-130	3	35	mg/kg	07.02.2020 22:27	
Toluene	<0.00200	0.100	0.0995	100	0.101	101	70-130	1	35	mg/kg	07.02.2020 22:27	
Ethylbenzene	<0.00200	0.100	0.0961	96	0.0989	99	70-130	3	35	mg/kg	07.02.2020 22:27	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.189	95	70-130	4	35	mg/kg	07.02.2020 22:27	
o-Xylene	<0.00200	0.100	0.0943	94	0.0975	98	70-130	3	35	mg/kg	07.02.2020 22:27	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		98		96		70-130	%	07.02.2020 22:27
4-Bromofluorobenzene	96		89		94		70-130	%	07.02.2020 22:27

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3130738 — Matrix: Solid — Date Prep: 07.02.2020
MB Sample Id: 7706727-1-BLK — LCS Sample Id: 7706727-1-BKS — LCSD Sample Id: 7706727-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.107	107	0.106	106	70-130	1	35	mg/kg	07.03.2020 04:38	
Toluene	<0.00200	0.100	0.103	103	0.102	102	70-130	1	35	mg/kg	07.03.2020 04:38	
Ethylbenzene	<0.00200	0.100	0.108	108	0.107	107	70-130	1	35	mg/kg	07.03.2020 04:38	
m,p-Xylenes	<0.00400	0.200	0.213	107	0.211	106	70-130	1	35	mg/kg	07.03.2020 04:38	
o-Xylene	<0.00200	0.100	0.111	111	0.109	109	70-130	2	35	mg/kg	07.03.2020 04:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		93		92		70-130	%	07.03.2020 04:38
4-Bromofluorobenzene	121		120		121		70-130	%	07.03.2020 04:38

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3130755 — Matrix: Soil — Date Prep: 07.02.2020
Parent Sample Id: 665975-007 — MS Sample Id: 665975-007 S — MSD Sample Id: 665975-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0561	56	0.0378	45	70-130	39	35	mg/kg	07.02.2020 23:08	XF
Toluene	<0.00200	0.100	0.0403	40	0.0262	31	70-130	42	35	mg/kg	07.02.2020 23:08	XF
Ethylbenzene	<0.00200	0.100	0.0323	32	0.0198	24	70-130	48	35	mg/kg	07.02.2020 23:08	XF
m,p-Xylenes	<0.00401	0.200	0.0637	32	0.0380	23	70-130	51	35	mg/kg	07.02.2020 23:08	XF
o-Xylene	<0.00200	0.100	0.0365	37	0.0228	27	70-130	46	35	mg/kg	07.02.2020 23:08	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		70-130	%	07.02.2020 23:08
4-Bromofluorobenzene	99		100		70-130	%	07.02.2020 23:08

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

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

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

eurofins | Xenco

QC Summary 666260

Tetra Tech- Midland

Sea Biscuit (5.20.20)

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3130738 Matrix: Soil Date Prep: 07.02.2020

Parent Sample Id: 666185-001 MS Sample Id: 666185-001 S MSD Sample Id: 666185-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0386	39	0.0480	48	70-130	22	35	mg/kg	07.03.2020 05:19	X
Toluene	<0.00200	0.0998	0.0248	25	0.0305	31	70-130	21	35	mg/kg	07.03.2020 05:19	X
Ethylbenzene	<0.00200	0.0998	0.0179	18	0.0217	22	70-130	19	35	mg/kg	07.03.2020 05:19	X
m,p-Xylenes	0.00508	0.200	0.0368	16	0.0428	19	70-130	15	35	mg/kg	07.03.2020 05:19	X
o-Xylene	<0.00200	0.0998	0.0191	19	0.0227	23	70-130	17	35	mg/kg	07.03.2020 05:19	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		94		70-130	%	07.03.2020 05:19
4-Bromofluorobenzene	101		103		70-130	%	07.03.2020 05:19

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

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

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

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

1RP2120

Client Name: COG	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit (5.20.20)	
Project Location: (county, state) Lea Co, NM	**Project #:** 212C-MD-02226
Invoice to: COG - Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Conner Moehring
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)	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	PCBs 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	Trench 1 (0-1')	7/2/2020			X			X		1	N	X		X												X							
	Trench 1 (1')	7/2/2020			X			X		1	N															X							
	Trench 1 (2')	7/2/2020			X			X		1	N															X							
	Trench 1 (3')	7/2/2020			X			X		1	N															X							
	Trench 1 (4')	7/2/2020			X			X		1	N															X							
	Trench 1 (5')	7/2/2020			X			X		1	N															X							
	Trench 1 (6')	7/2/2020			X			X		1	N															X							
	Trench 2 (0-1')	7/2/2020			X			X		1	N	X		X												X							
	Trench 2 (1')	7/2/2020			X			X		1	N															X							
	Trench 2 (2')	7/2/2020			X			X		1	N															X							

Relinquished by: Conner Moehring	Date: 7/2/20	Time: 1627	Received by: BRM
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 7/2/20 Time: 1627

LAB USE ONLY
Sample Temperature
7.5/7.1
-0.4 IR#5

REMARKS:
- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

10/19/2020

Client Name: COG	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit (5.20.20)	
Project Location: (county, state) Lea Co, NM	**Project #:** 212C-MD-02226
Invoice to: COG - Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Conner Moehring
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B	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
	Trench 2 (3')	7/2/2020			X				X			1	N															X							
	Trench 2 (4')	7/2/2020			X				X			1	N															X							
	Trench 4 (0-1')	7/2/2020			X				X			1	N	X		X												X							
	Trench 4 (1')	7/2/2020			X				X			1	N															X							
	Trench 4 (2')	7/2/2020			X				X			1	N															X							
	Trench 4 (3')	7/2/2020			X				X			1	N															X							
	Trench 4 (4')	7/2/2020			X				X			1	N															X							
	Trench 6 (0-1')	7/2/2020			X				X			1	N	X		X												X							
	Trench 6 (1')	7/2/2020			X				X			1	N															X							
	Trench 6 (2')	7/2/2020			X				X			1	N															X							

Relinquished by: Conner Moehring	Date: 7/2/20	Time: 1627	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY
Sample Temperature

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name: COG	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit (5.20.20)	
Project Location: (county, state) Lea Co, NM	**Project #:** 212C-MD-02226
Invoice to: COG - Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Conner Moehring
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None		# CONTAINERS	FILTERED (Y/N)	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
	Trench 6 (3')	7/2/2020			X				X			1	N															X							
	Trench 6 (4')	7/2/2020			X				X			1	N															X							
	Trench 8 (0-1')	7/2/2020			X				X			1	N	X		X												X							
	Trench 8 (1')	7/2/2020			X				X			1	N															X							
	Trench 8 (2')	7/2/2020			X				X			1	N															X							
	Trench 8 (3')	7/2/2020			X				X			1	N															X							
	Trench 8 (4')	7/2/2020			X				X			1	N															X							
	Trench 8 (5')	7/2/2020			X				X			1	N															X							
	Trench 8 (6')	7/2/2020			X				X			1	N															X							
	Trench 8 (7')	7/2/2020			X				X			1	N															X							

Relinquished by: Conner Moehring	Date: 7/2/20	Time: 1627	Received by: BTW Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

LAB USE ONLY
Sample Temperature

REMARKS:
- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

Lea Co, NM

Client Name: COG	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit (5.20.20)	
Project Location: (county, state) Lea Co, NM	**Project #:** 212C-MD-02226
Invoice to: COG - Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Conner Moehring
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE (YEAR: 2020)	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	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	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
	Trench 8 (8')	7/2/2020			X				X			1	N																X								
	Trench 8 (9')	7/2/2020			X				X			1	N																X								
	Trench 8 (10')	7/2/2020			X				X			1	N																X								
	Trench 9 (0-1')	7/2/2020			X				X			1	N	X			X												X								
	Trench 9 (1')	7/2/2020			X				X			1	N																X								
	Trench 9 (2')	7/2/2020			X				X			1	N																X								
	Trench 9 (3')	7/2/2020			X				X			1	N																X								
	Trench 9 (4')	7/2/2020			X				X			1	N																X								
	Trench 9 (5')	7/2/2020			X				X			1	N																X								
	Trench 9 (6')	7/2/2020			X				X			1	N																X								

Relinquished by: Conner Moehring	Date: 7/2/20	Time: 1627	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

LAB USE ONLY
Sample Temperature

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

901W Wall Street, Ste 100
Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

DLD 200

Client Name: COG	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit (5.20.20)	
Project Location: (county, state) Lea Co, NM	**Project #:** 212C-MD-02226
Invoice to: COG - Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Conner Moehring
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	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	Sulfate	TDS	General Water Chemistry (see attached list)	Anion/Cation Balande				Hold
	Trench 9 (7')	7/2/2020			X				X			1	N															X								
	Trench 9 (8')	7/2/2020			X				X			1	N															X								
	Trench 9 (9')	7/2/2020			X				X			1	N															X								
	Trench 9 (10')	7/2/2020			X				X			1	N															X								

Relinquished by: Conner Moehring	Date: 7/2/20	Time: 1647	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

	Date:	Time:	
	Date:	Time:	
	Date:	Time:	

LAB USE ONLY

Sample Temperature

REMARKS:

- ☐ STANDARD
- ☒ RUSH: Same Day 24 hr 48 hr (72 hr)
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 07.02.2020 04.27.00 PM

Work Order #: 666260

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	7.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	Cooling in progress
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 07.02.2020

Brianna Teel

Checklist reviewed by: Holly Taylor Date: 07.07.2020

Holly Taylor

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669480-001		669480-002		669480-003		669480-004		669480-005		669480-006	
	Field Id:	Borehole-1 (0-1)		Borehole-1 (2'-3')		Borehole-1 (4'-5')		Borehole-1 (6'-7')		Borehole-1 (9'-10')		Borehole-1 (14'-15')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	08.08.2020 15:30		08.08.2020 15:30									
	Analyzed:	08.09.2020 21:24		08.09.2020 21:45									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		<0.00200	0.00200	<0.00200	0.00200								
Toluene		<0.00200	0.00200	<0.00200	0.00200								
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200								
m,p-Xylenes		<0.00401	0.00401	<0.00401	0.00401								
o-Xylene		<0.00200	0.00200	<0.00200	0.00200								
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200								
Total BTEX		<0.00200	0.00200	<0.00200	0.00200								
Chloride by EPA 300	***Extracted:***	08.07.2020 13:50		08.07.2020 13:50		08.07.2020 13:50		08.07.2020 13:50		08.07.2020 14:30		08.07.2020 14:30	
	Analyzed:	08.08.2020 23:58		08.09.2020 00:05		08.09.2020 00:11		08.09.2020 00:17		08.08.2020 12:05		08.08.2020 12:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1090	4.96	215	4.95	20000	250	11800	100	5280	49.5	598	4.99
TPH by SW8015 Mod	***Extracted:***	08.07.2020 16:00		08.07.2020 16:00		08.11.2020 12:00							
	Analyzed:	08.08.2020 03:12		08.08.2020 03:33		08.11.2020 19:42							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.9	49.9	<49.9	49.9						
Diesel Range Organics (DRO)		2410	50.0	218	49.9	<49.9	49.9						
Motor Oil Range Hydrocarbons (MRO)		257	50.0	57.4	49.9	<49.9	49.9						
Total TPH		2670	50.0	275	49.9	<49.9	49.9						

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669480-008		669480-009		669480-010		669480-011		669480-012		669480-013	
	Field Id:	Borehole-2 (0-1)		Borehole-2 (2'-3')		Borehole-2 (4'-5')		Borehole-2 (6'-7')		Borehole-2 (9'-10')		Borehole-2 (14'-15')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	08.08.2020 15:30		08.08.2020 15:30									
	Analyzed:	08.09.2020 22:05		08.09.2020 22:26									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene		<0.00201	0.00201	<0.00199	0.00199								
Toluene		<0.00201	0.00201	<0.00199	0.00199								
Ethylbenzene		<0.00201	0.00201	<0.00199	0.00199								
m,p-Xylenes		<0.00402	0.00402	<0.00398	0.00398								
o-Xylene		<0.00201	0.00201	<0.00199	0.00199								
Total Xylenes		<0.00201	0.00201	<0.00199	0.00199								
Total BTEX		<0.00201	0.00201	<0.00199	0.00199								
Chloride by EPA 300	***Extracted:***	08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30	
	Analyzed:	08.08.2020 12:30		08.08.2020 12:36		08.08.2020 12:43		08.08.2020 13:02		08.08.2020 13:08		08.08.2020 13:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		7090	50.0	7700	49.8	4780	50.2	3950	24.8	4220	25.0	3220	24.9
TPH by SW8015 Mod	***Extracted:***	08.07.2020 16:00		08.07.2020 16:00									
	Analyzed:	08.08.2020 03:54		08.08.2020 04:14									
	Units/RL:	mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0								
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0								
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0								
Total TPH		<49.8	49.8	<50.0	50.0								

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Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669480-014		669480-015		669480-016		669480-017		669480-018		669480-019	
	Field Id:	Borehole-2 (16'-20')		Borehole-2 (24'-25')		Borehole-2 (29-30')		Borehole-3 (0-1)		Borehole-3 (2'-3')		Borehole-3 (4'-5')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00	
BTEX by EPA 8021B	***Extracted:***							08.08.2020 15:30		08.08.2020 15:30			
	Analyzed:							08.09.2020 22:46		08.09.2020 23:06			
	Units/RL:							mg/kg	RL	mg/kg	RL		
Benzene								<0.00200	0.00200	<0.00202	0.00202		
Toluene								<0.00200	0.00200	<0.00202	0.00202		
Ethylbenzene								<0.00200	0.00200	<0.00202	0.00202		
m,p-Xylenes								<0.00401	0.00401	<0.00403	0.00403		
o-Xylene								<0.00200	0.00200	<0.00202	0.00202		
Total Xylenes								<0.00200	0.00200	<0.00202	0.00202		
Total BTEX								<0.00200	0.00200	<0.00202	0.00202		
Chloride by EPA 300	***Extracted:***	08.12.2020 16:40		08.12.2020 16:40		08.12.2020 16:40		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30	
	Analyzed:	08.12.2020 19:45		08.12.2020 19:51		08.12.2020 19:39		08.08.2020 13:34		08.08.2020 13:53		08.08.2020 13:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		447	5.00	332	5.00	412	5.00	5260	50.0	6180	50.3	27100	250
TPH by SW8015 Mod	***Extracted:***							08.07.2020 16:00		08.07.2020 16:00			
	Analyzed:							08.08.2020 04:35		08.08.2020 04:56			
	Units/RL:							mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)								<49.9	49.9	<50.0	50.0		
Diesel Range Organics (DRO)								261	49.9	71.0	50.0		
Motor Oil Range Hydrocarbons (MRO)								<49.9	49.9	<50.0	50.0		
Total TPH								261	49.9	71.0	50.0		

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Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	669480-020		669480-021		669480-022		669480-024		669480-025		669480-026	
	Field Id:	Borehole-3 (6'-7')		Borehole-3 (9'-10')		Borehole-3 (14'-15')		Borehole-4 (0-1)		Borehole-4 (2'-3')		Borehole-4 (4'-5')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00	
BTEX by EPA 8021B	***Extracted:***							08.08.2020 15:30		08.08.2020 15:30			
	Analyzed:							08.09.2020 23:27		08.09.2020 23:48			
	Units/RL:							mg/kg	RL	mg/kg	RL		
Benzene								<0.00200	0.00200	<0.00202	0.00202		
Toluene								<0.00200	0.00200	<0.00202	0.00202		
Ethylbenzene								<0.00200	0.00200	<0.00202	0.00202		
m,p-Xylenes								<0.00401	0.00401	<0.00404	0.00404		
o-Xylene								<0.00200	0.00200	<0.00202	0.00202		
Total Xylenes								<0.00200	0.00200	<0.00202	0.00202		
Total BTEX								<0.00200	0.00200	<0.00202	0.00202		
Chloride by EPA 300	***Extracted:***	08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30		08.07.2020 14:30	
	Analyzed:	08.08.2020 14:18		08.08.2020 14:24		08.08.2020 14:31		08.08.2020 14:37		08.08.2020 14:43		08.08.2020 14:50	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		17700	253	6020	50.5	359	5.05	5550	49.8	6800	50.0	1670	25.0
TPH by SW8015 Mod	***Extracted:***							08.07.2020 16:00		08.07.2020 16:00		08.11.2020 12:00	
	Analyzed:							08.08.2020 05:16		08.08.2020 05:37		08.11.2020 20:01	
	Units/RL:							mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)								<49.9	49.9	<49.9	49.9	<49.8	49.8
Diesel Range Organics (DRO)								420	49.9	199	49.9	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)								67.5	49.9	<49.9	49.9	<49.8	49.8
Total TPH								488	49.9	199	49.9	<49.8	49.8

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Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested																			
	Lab Id:	669480-027		669480-028		669480-029		669480-032		669480-033		669480-034							
	Field Id:	Borehole-4 (6'-7')		Borehole-4(9'-10')		Borehole-4 (14'-15')		Borehole-5 (0-1)		Borehole-5 (2'-3')		Borehole-5 (4'-5')							
	Depth:																		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL							
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00							
BTEX by EPA 8021B	***Extracted:***							08.08.2020 15:30		08.08.2020 15:30									
	Analyzed:							08.10.2020 00:08		08.09.2020 21:04									
	Units/RL:							mg/kg	RL	mg/kg	RL								
Benzene								<0.00199	0.00199	<0.00201	0.00201								
Toluene								<0.00199	0.00199	<0.00201	0.00201								
Ethylbenzene								<0.00199	0.00199	<0.00201	0.00201								
m,p-Xylenes								<0.00398	0.00398	<0.00402	0.00402								
o-Xylene								<0.00199	0.00199	<0.00201	0.00201								
Total Xylenes								<0.00199	0.00199	<0.00201	0.00201								
Total BTEX								<0.00199	0.00199	<0.00201	0.00201								
Chloride by EPA 300	***Extracted:***	08.07.2020 14:30		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00							
	Analyzed:	08.08.2020 14:56		08.09.2020 00:52		08.09.2020 01:08		08.09.2020 01:13		08.09.2020 01:18		08.09.2020 01:23							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Chloride		489	5.04	779 X	5.00	448	4.99	2530	24.8	2310	24.9	14800	248						
TPH by SW8015 Mod	***Extracted:***							08.07.2020 16:00		08.07.2020 12:00									
	Analyzed:							08.08.2020 05:58		08.07.2020 20:35									
	Units/RL:							mg/kg	RL	mg/kg	RL								
Gasoline Range Hydrocarbons (GRO)								<50.0	50.0	<49.9	49.9								
Diesel Range Organics (DRO)								<50.0	50.0	<49.9	49.9								
Motor Oil Range Hydrocarbons (MRO)								<50.0	50.0	<49.9	49.9								
Total TPH								<50.0	50.0	<49.9	49.9								

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Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested																			
	Lab Id:	669480-035		669480-036		669480-037		669480-038		669480-039		669480-041							
	Field Id:	Borehole-5 (6'-7')		Borehole-5 (9'-10')		Borehole-5 (14'-15')		Borehole-5 (19'-20')		Borehole-5 (24'-25')		Borehole-6 (0-1)							
	Depth:																		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL							
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00							
BTEX by EPA 8021B	***Extracted:***											08.08.2020 15:30							
	Analyzed:											08.10.2020 01:31							
	Units/RL:											mg/kg	RL						
Benzene												<0.00201	0.00201						
Toluene												<0.00201	0.00201						
Ethylbenzene												<0.00201	0.00201						
m,p-Xylenes												<0.00402	0.00402						
o-Xylene												<0.00201	0.00201						
Total Xylenes												<0.00201	0.00201						
Total BTEX												<0.00201	0.00201						
Chloride by EPA 300	***Extracted:***	08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00							
	Analyzed:	08.09.2020 01:39		08.09.2020 01:44		08.09.2020 01:50		08.09.2020 01:55		08.09.2020 02:00		08.09.2020 02:05							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Chloride		19100	252	5950	49.8	2560	25.0	507	5.05	308	5.05	5390	49.8						
TPH by SW8015 Mod	***Extracted:***											08.07.2020 12:00							
	Analyzed:											08.07.2020 20:35							
	Units/RL:											mg/kg	RL						
Gasoline Range Hydrocarbons (GRO)												<50.0	50.0						
Diesel Range Organics (DRO)												<50.0	50.0						
Motor Oil Range Hydrocarbons (MRO)												<50.0	50.0						
Total TPH												<50.0	50.0						

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Certificate of Analysis Summary 669480

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Eddy County, New Mexico

Date Received in Lab: Fri 08.07.2020 10:22
Report Date: 08.17.2020 08:58
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	669480-042		669480-043		669480-044					
	Field Id:	Borehole-6(2'-3')		Borehole-6 (4'-5')		Borehole-6 (6'-7')					
	Depth:										
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	08.06.2020 00:00		08.06.2020 00:00		08.06.2020 00:00					
Chloride by EPA 300	***Extracted:***	08.07.2020 15:00		08.07.2020 15:00		08.07.2020 15:00					
	Analyzed:	08.09.2020 02:21		08.09.2020 02:27		08.09.2020 02:42					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		330	4.97	51.3	4.96	64.0	4.99				

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Analytical Report 669480

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Concho Sea Federal Com 002H (5.20.2020)

212C-MD-02226

08.17.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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

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

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08.17.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **669480**
Concho Sea Federal Com 002H (5.20.2020)
Project Address: Eddy County, New Mexico

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669480. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669480 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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Sample Cross Reference 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Borehole-1 (0-1)	S	08.06.2020 00:00		669480-001
Borehole-1 (2'-3')	S	08.06.2020 00:00		669480-002
Borehole-1 (4'-5')	S	08.06.2020 00:00		669480-003
Borehole-1 (6'-7')	S	08.06.2020 00:00		669480-004
Borehole-1 (9'-10')	S	08.06.2020 00:00		669480-005
Borehole-1 (14'-15')	S	08.06.2020 00:00		669480-006
Borehole-2 (0-1)	S	08.06.2020 00:00		669480-008
Borehole-2 (2'-3')	S	08.06.2020 00:00		669480-009
Borehole-2 (4'-5')	S	08.06.2020 00:00		669480-010
Borehole-2 (6'-7')	S	08.06.2020 00:00		669480-011
Borehole-2 (9'-10')	S	08.06.2020 00:00		669480-012
Borehole-2 (14'-15')	S	08.06.2020 00:00		669480-013
Borehole-2 (16'-20')	S	08.06.2020 00:00		669480-014
Borehole-2 (24'-25')	S	08.06.2020 00:00		669480-015
Borehole-2 (29-30')	S	08.06.2020 00:00		669480-016
Borehole-3 (0-1)	S	08.06.2020 00:00		669480-017
Borehole-3 (2'-3')	S	08.06.2020 00:00		669480-018
Borehole-3 (4'-5')	S	08.06.2020 00:00		669480-019
Borehole-3 (6'-7')	S	08.06.2020 00:00		669480-020
Borehole-3 (9'-10')	S	08.06.2020 00:00		669480-021
Borehole-3 (14'-15')	S	08.06.2020 00:00		669480-022
Borehole-4 (0-1)	S	08.06.2020 00:00		669480-024
Borehole-4 (2'-3')	S	08.06.2020 00:00		669480-025
Borehole-4 (4'-5')	S	08.06.2020 00:00		669480-026
Borehole-4 (6'-7')	S	08.06.2020 00:00		669480-027
Borehole-4(9'-10')	S	08.06.2020 00:00		669480-028
Borehole-4 (14'-15')	S	08.06.2020 00:00		669480-029
Borehole-5 (0-1)	S	08.06.2020 00:00		669480-032
Borehole-5 (2'-3')	S	08.06.2020 00:00		669480-033
Borehole-5 (4'-5')	S	08.06.2020 00:00		669480-034
Borehole-5 (6'-7')	S	08.06.2020 00:00		669480-035
Borehole-5 (9'-10')	S	08.06.2020 00:00		669480-036
Borehole-5 (14'-15')	S	08.06.2020 00:00		669480-037
Borehole-5 (19'-20')	S	08.06.2020 00:00		669480-038
Borehole-5 (24'-25')	S	08.06.2020 00:00		669480-039
Borehole-6 (0-1)	S	08.06.2020 00:00		669480-041
Borehole-6(2'-3')	S	08.06.2020 00:00		669480-042
Borehole-6 (4'-5')	S	08.06.2020 00:00		669480-043
Borehole-6 (6'-7')	S	08.06.2020 00:00		669480-044
Borehole-1 (19'-20')	S	08.06.2020 00:00		Not Analyzed
Borehole-3(19'-20')	S	08.06.2020 00:00		Not Analyzed
Borehole-4 (19'-20')	S	08.06.2020 00:00		Not Analyzed
Borehole-4 (24'-25')	S	08.06.2020 00:00		Not Analyzed

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Sample Cross Reference 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Borehole-5 (29'-30')	S	08.06.2020 00:00	Not Analyzed
Borehole-6 (9'-10')	S	08.06.2020 00:00	Not Analyzed
Borehole-6 (14'-15')	S	08.06.2020 00:00	Not Analyzed

CASE NARRATIVE

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Client Name: Tetra Tech- Midland

Project Name: Concho Sea Federal Com 002H (5.20.2020)

Project ID:	*212C-MD-02226*	Report Date:	*08.17.2020*
Work Order Number(s):	*669480*	Date Received:	*08.07.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3133978 Chloride by EPA 300

Lab Sample ID 669480-041 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 669480-028, -029, -032, -033, -034, -035, -036, -037, -038, -039, -041, -042, -043, -044.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3133986 BTEX by EPA 8021B

Lab Sample ID 669480-033 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 669480-001, -002, -008, -009, -017, -018, -024, -025, -032, -033, -041.

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

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Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-1 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-001 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 13:50 Basis: Wet Weight

Seq Number: 3133971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1090**	4.96	mg/kg	08.08.2020 23:58		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.08.2020 03:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	**2410**	50.0	mg/kg	08.08.2020 03:12		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**257**	50.0	mg/kg	08.08.2020 03:12		1
Total TPH	PHC635	**2670**	50.0	mg/kg	08.08.2020 03:12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.08.2020 03:12	
o-Terphenyl	84-15-1	127	%	70-130	08.08.2020 03:12	

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Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-1 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-001	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.09.2020 21:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.09.2020 21:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	08.09.2020 21:24	
1,4-Difluorobenzene	540-36-3	109	%	70-130	08.09.2020 21:24	

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Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-1 (2'-3')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-002 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 13:50 Basis: Wet Weight

Seq Number: 3133971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**215**	4.95	mg/kg	08.09.2020 00:05		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.08.2020 03:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	**218**	49.9	mg/kg	08.08.2020 03:33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**57.4**	49.9	mg/kg	08.08.2020 03:33		1
Total TPH	PHC635	**275**	49.9	mg/kg	08.08.2020 03:33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.08.2020 03:33	
o-Terphenyl	84-15-1	113	%	70-130	08.08.2020 03:33	

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Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-1 (2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-002	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.09.2020 21:45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.09.2020 21:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.09.2020 21:45	
4-Bromofluorobenzene	460-00-4	118	%	70-130	08.09.2020 21:45	

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Certificate of Analytical Results 669480

Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-1 (4'-5')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-003 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 13:50 Basis: Wet Weight

Seq Number: 3133971

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20000**	250	mg/kg	08.09.2020 00:11		50

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.11.2020 12:00 Basis: Wet Weight

Seq Number: 3134289

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.11.2020 19:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.11.2020 19:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.11.2020 19:42	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.11.2020 19:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	08.11.2020 19:42	
o-Terphenyl	84-15-1	128	%	70-130	08.11.2020 19:42	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-1 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-004	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 13:50	Basis:	Wet Weight
Seq Number:	3133971				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11800**	100	mg/kg	08.09.2020 00:17		20

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-1 (9'-10')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-005	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5280**	49.5	mg/kg	08.08.2020 12:05		10

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-1 (14'-15')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-006	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**598**	4.99	mg/kg	08.08.2020 12:24		1

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-2 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-008 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7090**	50.0	mg/kg	08.08.2020 12:30		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.08.2020 03:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.08.2020 03:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.08.2020 03:54	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.08.2020 03:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	08.08.2020 03:54	
o-Terphenyl	84-15-1	108	%	70-130	08.08.2020 03:54	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-008	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.09.2020 22:05	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.09.2020 22:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	08.09.2020 22:05	
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.09.2020 22:05	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-2 (2'-3')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-009 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7700**	49.8	mg/kg	08.08.2020 12:36		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.08.2020 04:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.08.2020 04:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.08.2020 04:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.08.2020 04:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-130	08.08.2020 04:14	
o-Terphenyl	84-15-1	107	%	70-130	08.08.2020 04:14	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-009	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.09.2020 22:26	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.09.2020 22:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.09.2020 22:26	
4-Bromofluorobenzene	460-00-4	114	%	70-130	08.09.2020 22:26	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (4'-5')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-010	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4780**	50.2	mg/kg	08.08.2020 12:43		10

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-011	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3950**	24.8	mg/kg	08.08.2020 13:02		5

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (9'-10')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-012	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4220**	25.0	mg/kg	08.08.2020 13:08		5

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (14'-15')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-013	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3220**	24.9	mg/kg	08.08.2020 13:14		5

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (16'-20')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-014	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.12.2020 16:40	Basis:	Wet Weight
Seq Number:	3134378				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**447**	5.00	mg/kg	08.12.2020 19:45		1

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (24'-25')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-015	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.12.2020 16:40	Basis:	Wet Weight
Seq Number:	3134378				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**332**	5.00	mg/kg	08.12.2020 19:51		1

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-2 (29-30')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-016	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.12.2020 16:40	Basis:	Wet Weight
Seq Number:	3134378				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**412**	5.00	mg/kg	08.12.2020 19:39		1

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-3 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-017 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5260**	50.0	mg/kg	08.08.2020 13:34		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.08.2020 04:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	**261**	49.9	mg/kg	08.08.2020 04:35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.08.2020 04:35	U	1
Total TPH	PHC635	**261**	49.9	mg/kg	08.08.2020 04:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-130	08.08.2020 04:35	
o-Terphenyl	84-15-1	115	%	70-130	08.08.2020 04:35	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-017	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.09.2020 22:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.09.2020 22:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.09.2020 22:46	
4-Bromofluorobenzene	460-00-4	117	%	70-130	08.09.2020 22:46	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-3 (2'-3')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-018 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6180**	50.3	mg/kg	08.08.2020 13:53		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.08.2020 04:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	**71.0**	50.0	mg/kg	08.08.2020 04:56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.08.2020 04:56	U	1
Total TPH	PHC635	**71.0**	50.0	mg/kg	08.08.2020 04:56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.08.2020 04:56	
o-Terphenyl	84-15-1	111	%	70-130	08.08.2020 04:56	

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-018	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.09.2020 23:06	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.09.2020 23:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.09.2020 23:06	
1,4-Difluorobenzene	540-36-3	108	%	70-130	08.09.2020 23:06	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (4'-5')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-019	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**27100**	250	mg/kg	08.08.2020 13:59		50

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-020	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17700**	253	mg/kg	08.08.2020 14:18		50

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (9'-10')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-021	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6020**	50.5	mg/kg	08.08.2020 14:24		10

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-3 (14'-15')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-022	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**359**	5.05	mg/kg	08.08.2020 14:31		1

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-4 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-024 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 14:30 Basis: Wet Weight

Seq Number: 3133975

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5550**	49.8	mg/kg	08.08.2020 14:37		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.08.2020 05:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	**420**	49.9	mg/kg	08.08.2020 05:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**67.5**	49.9	mg/kg	08.08.2020 05:16		1
Total TPH	PHC635	**488**	49.9	mg/kg	08.08.2020 05:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	08.08.2020 05:16	
o-Terphenyl	84-15-1	109	%	70-130	08.08.2020 05:16	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-024	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.09.2020 23:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.09.2020 23:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	08.09.2020 23:27	
4-Bromofluorobenzene	460-00-4	116	%	70-130	08.09.2020 23:27	

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4 (2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-025	Date Collected:	08.06.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6800**	50.0	mg/kg	08.08.2020 14:43		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.07.2020 16:00	Basis:	Wet Weight
Seq Number:	3134015				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.08.2020 05:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	**199**	49.9	mg/kg	08.08.2020 05:37		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.08.2020 05:37	U	1
Total TPH	PHC635	**199**	49.9	mg/kg	08.08.2020 05:37		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.08.2020 05:37	
o-Terphenyl	84-15-1	113	%	70-130	08.08.2020 05:37	

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4 (2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-025	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	08.09.2020 23:48	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.09.2020 23:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	08.09.2020 23:48	
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.09.2020 23:48	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4 (4'-5')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-026	Date Collected:	08.06.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1670**	25.0	mg/kg	08.08.2020 14:50		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.11.2020 12:00	Basis:	Wet Weight
Seq Number:	3134289				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.11.2020 20:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.11.2020 20:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.11.2020 20:01	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.11.2020 20:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	08.11.2020 20:01	
o-Terphenyl	84-15-1	128	%	70-130	08.11.2020 20:01	

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-027	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 14:30	Basis:	Wet Weight
Seq Number:	3133975				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**489**	5.04	mg/kg	08.08.2020 14:56		1

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4(9'-10')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-028	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**779**	5.00	mg/kg	08.09.2020 00:52	X	1

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-4 (14'-15')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-029	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**448**	4.99	mg/kg	08.09.2020 01:08		1

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-5 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-032 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 15:00 Basis: Wet Weight

Seq Number: 3133978

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2530**	24.8	mg/kg	08.09.2020 01:13		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 16:00 Basis: Wet Weight

Seq Number: 3134015

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.08.2020 05:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.08.2020 05:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.08.2020 05:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.08.2020 05:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-130	08.08.2020 05:58	
o-Terphenyl	84-15-1	108	%	70-130	08.08.2020 05:58	

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-032	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.10.2020 00:08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.10.2020 00:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.10.2020 00:08	
4-Bromofluorobenzene	460-00-4	118	%	70-130	08.10.2020 00:08	

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Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-5 (2'-3')** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-033 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 15:00 Basis: Wet Weight

Seq Number: 3133978

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2310**	24.9	mg/kg	08.09.2020 01:18		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 12:00 Basis: Wet Weight

Seq Number: 3134024

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.07.2020 20:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.07.2020 20:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.07.2020 20:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.07.2020 20:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	08.07.2020 20:35	
o-Terphenyl	84-15-1	109	%	70-130	08.07.2020 20:35	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-033	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.09.2020 21:04	UX	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.09.2020 21:04	UX	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.09.2020 21:04	UX	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.09.2020 21:04	UX	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.09.2020 21:04	UX	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.09.2020 21:04	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.09.2020 21:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	08.09.2020 21:04	
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.09.2020 21:04	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (4'-5')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-034	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14800**	248	mg/kg	08.09.2020 01:23		50

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-035	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19100**	252	mg/kg	08.09.2020 01:39		50

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (9'-10')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-036	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5950**	49.8	mg/kg	08.09.2020 01:44		10

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (14'-15')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-037	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2560**	25.0	mg/kg	08.09.2020 01:50		5

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (19'-20')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-038	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**507**	5.05	mg/kg	08.09.2020 01:55		1

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-5 (24'-25')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-039	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**308**	5.05	mg/kg	08.09.2020 02:00		1

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id: **Borehole-6 (0-1)** Matrix: Soil Date Received:08.07.2020 10:22

Lab Sample Id: 669480-041 Date Collected: 08.06.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.07.2020 15:00 Basis: Wet Weight

Seq Number: 3133978

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5390**	49.8	mg/kg	08.09.2020 02:05		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.07.2020 12:00 Basis: Wet Weight

Seq Number: 3134011

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.07.2020 20:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.07.2020 20:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.07.2020 20:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.07.2020 20:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	08.07.2020 20:35	
o-Terphenyl	84-15-1	103	%	70-130	08.07.2020 20:35	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-6 (0-1)**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-041	Date Collected:	08.06.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.08.2020 15:30	Basis:	Wet Weight
Seq Number:	3133986				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.10.2020 01:31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.10.2020 01:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	08.10.2020 01:31	
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.10.2020 01:31	

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-6(2'-3')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-042	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**330**	4.97	mg/kg	08.09.2020 02:21		1

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-6 (4'-5')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-043	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**51.3**	4.96	mg/kg	08.09.2020 02:27		1

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Tetra Tech- Midland, Midland, TX

Concho Sea Federal Com 002H (5.20.2020)

Sample Id:	**Borehole-6 (6'-7')**	Matrix:	Soil	Date Received:	08.07.2020 10:22
Lab Sample Id:	669480-044	Date Collected:	08.06.2020 00:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.07.2020 15:00	Basis:	Wet Weight
Seq Number:	3133978				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**64.0**	4.99	mg/kg	08.09.2020 02:42		1

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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

QC Summary 669480

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Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133971 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7708977-1-BLK — LCS Sample Id: 7708977-1-BKS — LCSD Sample Id: 7708977-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	258	103	258	103	90-110	0	20	mg/kg	08.08.2020 21:15	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133975 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7708982-1-BLK — LCS Sample Id: 7708982-1-BKS — LCSD Sample Id: 7708982-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	255	102	90-110	0	20	mg/kg	08.08.2020 11:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133978 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7708990-1-BLK — LCS Sample Id: 7708990-1-BKS — LCSD Sample Id: 7708990-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	245	98	244	98	90-110	0	20	mg/kg	08.09.2020 00:41	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134378 — Matrix: Solid — Date Prep: 08.12.2020
MB Sample Id: 7709299-1-BLK — LCS Sample Id: 7709299-1-BKS — LCSD Sample Id: 7709299-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	273	109	274	110	90-110	0	20	mg/kg	08.12.2020 16:47	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133971 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669481-060 — MS Sample Id: 669481-060 S — MSD Sample Id: 669481-060 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9.09	249	260	101	261	101	90-110	0	20	mg/kg	08.08.2020 21:34	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133971 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669481-070 — MS Sample Id: 669481-070 S — MSD Sample Id: 669481-070 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.99	248	243	95	243	95	90-110	0	20	mg/kg	08.08.2020 23:02	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 669480

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Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133975 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669480-005 — MS Sample Id: 669480-005 S — MSD Sample Id: 669480-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5280	2480	7900	106	7910	106	90-110	0	20	mg/kg	08.08.2020 12:11	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133975 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669480-017 — MS Sample Id: 669480-017 S — MSD Sample Id: 669480-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5260	2500	7690	97	7690	97	90-110	0	20	mg/kg	08.08.2020 13:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133978 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669480-028 — MS Sample Id: 669480-028 S — MSD Sample Id: 669480-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	779	250	987	83	983	82	90-110	0	20	mg/kg	08.09.2020 00:57	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3133978 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669480-041 — MS Sample Id: 669480-041 S — MSD Sample Id: 669480-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5390	2490	7940	102	7960	103	90-110	0	20	mg/kg	08.09.2020 02:11	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134378 — Matrix: Soil — Date Prep: 08.12.2020
Parent Sample Id: 669777-001 — MS Sample Id: 669777-001 S — MSD Sample Id: 669777-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.96	248	282	114	280	113	90-110	1	20	mg/kg	08.12.2020 17:06	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134378 — Matrix: Soil — Date Prep: 08.12.2020
Parent Sample Id: 669808-001 — MS Sample Id: 669808-001 S — MSD Sample Id: 669808-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2230	1240	3590	110	3590	110	90-110	0	20	mg/kg	08.12.2020 18:35	

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

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

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

QC Summary 669480

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Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134011 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709030-1-BLK — LCS Sample Id: 7709030-1-BKS — LCSD Sample Id: 7709030-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	905	91	878	88	70-130	3	20	mg/kg	08.07.2020 12:04	
Diesel Range Organics (DRO)	<50.0	1000	919	92	923	92	70-130	0	20	mg/kg	08.07.2020 12:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		90		94		70-130	%	08.07.2020 12:04
o-Terphenyl	96		88		93		70-130	%	08.07.2020 12:04

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134024 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709032-1-BLK — LCS Sample Id: 7709032-1-BKS — LCSD Sample Id: 7709032-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	936	94	906	91	70-130	3	20	mg/kg	08.07.2020 12:04	
Diesel Range Organics (DRO)	<50.0	1000	992	99	965	97	70-130	3	20	mg/kg	08.07.2020 12:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		125		118		70-130	%	08.07.2020 12:04
o-Terphenyl	111		114		107		70-130	%	08.07.2020 12:04

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134015 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709036-1-BLK — LCS Sample Id: 7709036-1-BKS — LCSD Sample Id: 7709036-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	944	94	952	95	70-130	1	20	mg/kg	08.07.2020 21:38	
Diesel Range Organics (DRO)	<50.0	1000	950	95	955	96	70-130	1	20	mg/kg	08.07.2020 21:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	126		123		125		70-130	%	08.07.2020 21:38
o-Terphenyl	114		110		116		70-130	%	08.07.2020 21:38

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

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

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

QC Summary 669480

eurofins | Environment Testing Xenco

Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134289 — Matrix: Solid — Date Prep: 08.11.2020
MB Sample Id: 7709212-1-BLK — LCS Sample Id: 7709212-1-BKS — LCSD Sample Id: 7709212-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	854	85	884	88	70-130	3	20	mg/kg	08.11.2020 12:17	
Diesel Range Organics (DRO)	<50.0	1000	838	84	898	90	70-130	7	20	mg/kg	08.11.2020 12:17	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		124		129		70-130	%	08.11.2020 12:17
o-Terphenyl	121		120		128		70-130	%	08.11.2020 12:17

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134011 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709030-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.07.2020 11:43	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134024 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709032-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.07.2020 11:43	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134015 — Matrix: Solid — Date Prep: 08.07.2020
MB Sample Id: 7709036-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.07.2020 21:17	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134289 — Matrix: Solid — Date Prep: 08.11.2020
MB Sample Id: 7709212-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.11.2020 11:57	

MS/MSD Percent Recovery [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

eurofins | Environment Testing Xenco

QC Summary 669480

Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134011 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669427-001 — MS Sample Id: 669427-001 S — MSD Sample Id: 669427-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	842	84	800	80	70-130	5	20	mg/kg	08.07.2020 13:08	
Diesel Range Organics (DRO)	<49.9	997	838	84	831	83	70-130	1	20	mg/kg	08.07.2020 13:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		95		70-130	%	08.07.2020 13:08
o-Terphenyl	93		93		70-130	%	08.07.2020 13:08

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134024 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669326-004 — MS Sample Id: 669326-004 S — MSD Sample Id: 669326-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	868	87	885	89	70-130	2	20	mg/kg	08.07.2020 13:08	
Diesel Range Organics (DRO)	<50.0	999	892	89	913	91	70-130	2	20	mg/kg	08.07.2020 13:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	110		111		70-130	%	08.07.2020 13:08
o-Terphenyl	98		100		70-130	%	08.07.2020 13:08

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134015 — Matrix: Soil — Date Prep: 08.07.2020
Parent Sample Id: 669481-061 — MS Sample Id: 669481-061 S — MSD Sample Id: 669481-061 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	880	88	903	91	70-130	3	20	mg/kg	08.07.2020 22:41	
Diesel Range Organics (DRO)	<49.9	997	832	83	952	96	70-130	13	20	mg/kg	08.07.2020 22:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		113		70-130	%	08.07.2020 22:41
o-Terphenyl	101		103		70-130	%	08.07.2020 22:41

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

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

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

QC Summary 669480

eurofins | Environment Testing Xenco

Tetra Tech- Midland

Concho Sea Federal Com 002H (5.20.2020)

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134289 — Matrix: Soil — Date Prep: 08.11.2020
Parent Sample Id: 669564-001 — MS Sample Id: 669564-001 S — MSD Sample Id: 669564-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	801	80	821	82	70-130	2	20	mg/kg	08.11.2020 13:16	
Diesel Range Organics (DRO)	104	997	874	77	866	77	70-130	1	20	mg/kg	08.11.2020 13:16	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		124		70-130	%	08.11.2020 13:16
o-Terphenyl	120		124		70-130	%	08.11.2020 13:16

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3133986 — Matrix: Solid — Date Prep: 08.08.2020
MB Sample Id: 7709044-1-BLK — LCS Sample Id: 7709044-1-BKS — LCSD Sample Id: 7709044-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.110	110	0.105	105	70-130	5	35	mg/kg	08.09.2020 18:40	
Toluene	<0.00200	0.100	0.0976	98	0.0940	94	70-130	4	35	mg/kg	08.09.2020 18:40	
Ethylbenzene	<0.00200	0.100	0.0912	91	0.0884	88	70-130	3	35	mg/kg	08.09.2020 18:40	
m,p-Xylenes	<0.00400	0.200	0.180	90	0.174	87	70-130	3	35	mg/kg	08.09.2020 18:40	
o-Xylene	<0.00200	0.100	0.0896	90	0.0869	87	70-130	3	35	mg/kg	08.09.2020 18:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		103		101		70-130	%	08.09.2020 18:40
4-Bromofluorobenzene	106		95		93		70-130	%	08.09.2020 18:40

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3133986 — Matrix: Soil — Date Prep: 08.08.2020
Parent Sample Id: 669480-033 — MS Sample Id: 669480-033 S — MSD Sample Id: 669480-033 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0640	63	0.0600	59	70-130	6	35	mg/kg	08.09.2020 19:22	X
Toluene	<0.00202	0.101	0.0446	44	0.0419	41	70-130	6	35	mg/kg	08.09.2020 19:22	X
Ethylbenzene	<0.00202	0.101	0.0348	34	0.0333	33	70-130	4	35	mg/kg	08.09.2020 19:22	X
m,p-Xylenes	<0.00403	0.202	0.0552	27	0.0507	25	70-130	8	35	mg/kg	08.09.2020 19:22	X
o-Xylene	<0.00202	0.101	0.0382	38	0.0372	37	70-130	3	35	mg/kg	08.09.2020 19:22	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		70-130	%	08.09.2020 19:22
4-Bromofluorobenzene	106		108		70-130	%	08.09.2020 19:22

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

1009480

Client Name: Concho	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 212C-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)	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	TPH 8015R		Hold
	Borehole-1 (0-1')	8/6/2020			X				X		1	N	X		X												X							
	Borehole-1 (2'-3')	8/6/2020			X				X		1	N	X		X												X							
	Borehole-1 (4'-5')	8/6/2020			X				X		1	N															X							
	Borehole-1 (6'-7')	8/6/2020			X				X		1	N															X							
	Borehole-1 (9'-10')	8/6/2020			X				X		1	N															X							
	Borehole-1 (14'-15')	8/6/2020			X				X		1	N															X							
	Borehole-1 (19'-20')	8/6/2020			X				X		1	N															X							X
	Borehole-2 (0-1')	8/6/2020			X				X		1	N	X		X												X							
	Borehole-2 (2'-3')	8/6/2020			X				X		1	N	X		X												X							
	Borehole-2 (4'-5')	8/6/2020			X				X		1	N															X							

Relinquished by:	Date: 8/7/20	Time: 1022	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Received by: Date: 8/7/20 Time: 1022

Received by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature 2.6/2.2 -0.4

REMARKS:

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Labequest

Client Name: Concho	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 212C-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)	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	TPH 8015R		Hold
	Borehole-2 (6'-7')	8/6/2020			X			X		1	N																X						
	Borehole-2 (9'-10')	8/6/2020			X			X		1	N																X						
	Borehole-2 (14'-15')	8/6/2020			X			X		1	N																X						
	Borehole-2 (19'-20')	8/6/2020			X			X		1	N																X						
	Borehole-2 (24'-25')	8/6/2020			X			X		1	N																X						
	Borehole-2 (29'-30')	8/6/2020			X			X		1	N																X						
	Borehole-3 (0-1')	8/6/2020			X			X		1	N																						X
	Borehole-3 (2'-3')	8/6/2020			X			X		1	N	X				X											X						
	Borehole-3 (4'-5')	8/6/2020			X			X		1	N	X				X											X						
	Borehole-3 (6'-7')	8/6/2020			X			X		1	N																X						

ANALYSIS REQUEST
(Circle or Specify Method No.)

	Date:	Time:
Relinquished by:	8/7/20	1022
Relinquished by:		
Relinquished by:		

	Date:	Time:
Received by:	8/7	1022
Received by:		
Received by:		

LAB USE ONLY
Sample Temperature
2.6/2.2

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

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record

Page 3 of 5

Tetra Tech, Inc.

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

669480

Client Name: Concho	Site Manager: Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	Project #: 212C-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	Sampler Signature: Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	TIME	MATRIX WATER	SOIL		PRESERVATIVE METHOD HCL	HNO_3	ICE	None		# CONTAINERS	FILTERED (Y/N)	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	TPH 8015R			Hold
	Borehole-3 (9'-10')	8/6/2020			X				X			1	N															X							
	Borehole-3 (14'-15')	8/6/2020			X				X			1	N															X							
	Borehole-3 (19'-20')	8/6/2020			X				X			1	N																						X
	Borehole-4 (0-1')	8/6/2020			X				X			1	N	X		X												X							
	Borehole-4 (2'-3')	8/6/2020			X				X			1	N	X		X												X							
	Borehole-4 (4'-5')	8/6/2020			X				X			1	N															X							
	Borehole-4 (6'-7')	8/6/2020			X				X			1	N															X							
	Borehole-4 (9'-10')	8/6/2020			X				X			1	N															X							
	Borehole-4 (14'-15')	8/6/2020			X				X			1	N															X							
	Borehole-4 (19'-20')	8/6/2020			X				X			1	N																						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	8/7/20	1022	[signature]	8/7	1022
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY
Sample Temperature: 2.6/2.2

REMARKS:
- [ ] STANDARD
- [x] RUSH: Same Day 24 hr 48 hr (72 hr)
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: ________

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

10094480

Client Name: Concho	Site Manager: Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	Project #: 212C-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	Sampler Signature: Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None		# CONTAINERS	FILTERED (Y/N)	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	TPH 8015R			Hold
	Borehole-4 (24'-25')	8/6/2020			X				X			1	N																							
	Borehole-5 (0-1')	8/6/2020			X				X			1	N	X		X													X							X
	Borehole-5 (2'-3')	8/6/2020			X				X			1	N	X		X													X							
	Borehole-5 (4'-5')	8/6/2020			X				X			1	N																X							
	Borehole-5 (6'-7')	8/6/2020			X				X			1	N																X							
	Borehole-5 (9'-10')	8/6/2020			X				X			1	N																X							
	Borehole-5 (14'-15')	8/6/2020			X				X			1	N																X							
	Borehole-5 (19'-20')	8/6/2020			X				X			1	N																X							
	Borehole-5 (24'-25')	8/6/2020			X				X			1	N																X							
	Borehole-5 (29'-30')	8/6/2020			X				X			1	N																X							

Relinquished by:	Date: 8/7/20	Time: 1032	Received by: Date: 8/7/20 Time: 1032
Relinquished by:	Date:	Time:	Received by: Date: Time:
Relinquished by:	Date:	Time:	Received by: Date: Time:

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ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB USE ONLY
Sample Temperature 2.6/2.2

REMARKS:
- [ ] STANDARD
- [X] RUSH: Same Day 24 hr 48 hr 72 hr
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

1069480

Client Name: Concho	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 212C-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Devin Dominguez

Comments: Run deeper sample if Benzene exceeds 10 mg/kg or total BTEX exceeds 50 mg/kg. Run deeper sample if TPH exceeds 100 mg/kg.

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	# CONTAINERS	FILTERED (Y/N)
	Borehole-6 (0-1')	8/6/2020			X				X		1	N
	Borehole-6 (2'-3')	8/6/2020			X				X		1	N
	Borehole-6 (4'-5')	8/6/2020			X				X		1	N
	Borehole-6 (6'-7')	8/6/2020			X				X		1	N
	Borehole-6 (9'-10')	8/6/2020			X				X		1	N
	Borehole-6 (14'-15')	8/6/2020			X				X		1	N

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	TPH 8015R			Hold
X		X														X								
																X								
																X								
																X								
																X								
																								X
																								X

Relinquished by: Date: 8/7/20 Time: 1052
Received by: Date: 8/7/20 Time: 1052

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

LAB USE ONLY
Sample Temperature 2.6/2.2

REMARKS:
- ☐ STANDARD
- ☒ 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

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 08.07.2020 10.22.00 AM

Work Order #: 669480

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.2	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 08.07.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 08.07.2020
Jessica Kramer

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Certificate of Analysis Summary 670009

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Biscuit Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 08.13.2020 15:21
Report Date: 08.17.2020 13:06
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	670009-001		670009-002		670009-003		670009-004		670009-005		670009-006	
	Field Id:	Horizontal-1 (0-1')		Horizontal-2 (0-1')		Horizontal-3 (0-1')		Horizontal-4 (0-1')		Horizontal-5 (0-1')		Horizontal-6 (0-1')	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.12.2020 00:00		08.12.2020 00:00		08.12.2020 00:00		08.12.2020 00:00		08.12.2020 00:00		08.12.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30	
	Analyzed:	08.15.2020 00:02		08.15.2020 00:23		08.15.2020 00:43		08.15.2020 01:04		08.15.2020 01:24		08.15.2020 02:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00398	0.00398	<0.00398	0.00398	<0.00400	0.00400	<0.00398	0.00398	<0.00399	0.00399	<0.00398	0.00398
o-Xylene		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00199	0.00199	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45	
	Analyzed:	08.14.2020 12:07		08.14.2020 12:12		08.14.2020 12:17		08.14.2020 12:22		08.14.2020 12:28		08.14.2020 12:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		10.3	4.98	18.5	5.03	31.1	4.99	68.2	4.96	185	5.04	55.4	4.98
TPH by SW8015 Mod	***Extracted:***	08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00	
	Analyzed:	08.13.2020 22:07		08.13.2020 23:03		08.14.2020 02:12		08.14.2020 02:31		08.14.2020 02:49		08.14.2020 03:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0
Total TPH		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 670009

Tetra Tech- Midland, Midland, TX

Project Name: Concho Sea Biscuit Federal Com 002H (5.20.2020)

Project Id: 212C-MD-02226
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 08.13.2020 15:21
Report Date: 08.17.2020 13:06
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	670009-007		670009-008		670009-009		670009-010		670009-011			
	Field Id:	Horizontal-7 (0-1')		Horizontal-8 (0-1')		Horizontal-9 (0-1')		Horizontal-10 (0-1')		Horizontal-11 (0-1')			
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL			
	Sampled:	08.12.2020 00:00		08.12.2020 00:00		08.12.2020 00:00		08.12.2020 00:00		08.12.2020 00:00			
BTEX by EPA 8021B	***Extracted:***	08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30		08.14.2020 16:30			
	Analyzed:	08.15.2020 03:07		08.15.2020 03:28		08.15.2020 03:48		08.15.2020 04:09		08.15.2020 04:29			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
Toluene		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
m,p-Xylenes		<0.00400	0.00400	<0.00397	0.00397	<0.00397	0.00397	<0.00400	0.00400	<0.00398	0.00398		
o-Xylene		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
Total BTEX		<0.00200	0.00200	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199		
Chloride by EPA 300	***Extracted:***	08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45		08.14.2020 09:45			
	Analyzed:	08.14.2020 12:49		08.14.2020 12:54		08.14.2020 13:44		08.14.2020 13:49		08.14.2020 13:55			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		16.6	5.03	10.5	4.96	13.3	4.95	20.2	4.95	33.6	4.95		
TPH by SW8015 Mod	***Extracted:***	08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00		08.13.2020 17:00			
	Analyzed:	08.13.2020 23:22		08.13.2020 22:45		08.14.2020 03:27		08.13.2020 23:41		08.14.2020 00:00			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		
Total TPH		<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.8	49.8	<49.9	49.9		

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 670009

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Concho Sea Biscuit Federal Com 002H (5.20.2020)

212C-MD-02226

08.17.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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

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

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08.17.2020

Project Manager: **Mike Carmona**
Tetra Tech- Midland
901 West Wall ST
Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **670009**
Concho Sea Biscuit Federal Com 002H (5.20.2020)
Project Address: Lea County, New Mexico

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 670009. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 670009 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Horizontal-1 (0-1')	S	08.12.2020 00:00		670009-001
Horizontal-2 (0-1')	S	08.12.2020 00:00		670009-002
Horizontal-3 (0-1')	S	08.12.2020 00:00		670009-003
Horizontal-4 (0-1')	S	08.12.2020 00:00		670009-004
Horizontal-5 (0-1')	S	08.12.2020 00:00		670009-005
Horizontal-6 (0-1')	S	08.12.2020 00:00		670009-006
Horizontal-7 (0-1')	S	08.12.2020 00:00		670009-007
Horizontal-8 (0-1')	S	08.12.2020 00:00		670009-008
Horizontal-9 (0-1')	S	08.12.2020 00:00		670009-009
Horizontal-10 (0-1')	S	08.12.2020 00:00		670009-010
Horizontal-11 (0-1')	S	08.12.2020 00:00		670009-011

CASE NARRATIVE

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Client Name: Tetra Tech- Midland

Project Name: Concho Sea Biscuit Federal Com 002H (5.20.2020)

Project ID: *212C-MD-02226*
Work Order Number(s): *670009*

Report Date: *08.17.2020*
Date Received: *08.13.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3134546 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples affected are: 7709438-1-BLK,670009-009.

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Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-1 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-001 Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.3**	4.98	mg/kg	08.14.2020 12:07		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight

Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.13.2020 22:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.13.2020 22:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.13.2020 22:07	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.13.2020 22:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	08.13.2020 22:07	
o-Terphenyl	84-15-1	115	%	70-130	08.13.2020 22:07	

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Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-1 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-001	Date Collected:	08.12.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.14.2020 16:30	Basis:	Wet Weight
Seq Number:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.15.2020 00:02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.15.2020 00:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	08.15.2020 00:02	
4-Bromofluorobenzene	460-00-4	113	%	70-130	08.15.2020 00:02	

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Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-2 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-002	Date Collected:	08.12.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.14.2020 09:45	Basis:	Wet Weight
Seq Number:	3134684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.5**	5.03	mg/kg	08.14.2020 12:12		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.13.2020 17:00	Basis:	Wet Weight
Seq Number:	3134546				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 23:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 23:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 23:03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 23:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	08.13.2020 23:03	
o-Terphenyl	84-15-1	126	%	70-130	08.13.2020 23:03	

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Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-2 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-002	Date Collected:	08.12.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.14.2020 16:30	Basis:	Wet Weight
Seq Number:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.15.2020 00:23	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.15.2020 00:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.15.2020 00:23	
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.15.2020 00:23	

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Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-3 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21
Lab Sample Id: 670009-003 Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight
Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**31.1**	4.99	mg/kg	08.14.2020 12:17		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.14.2020 02:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.14.2020 02:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.14.2020 02:12	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.14.2020 02:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-130	08.14.2020 02:12	
o-Terphenyl	84-15-1	118	%	70-130	08.14.2020 02:12	

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Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-3 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-003	Date Collected:	08.12.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.14.2020 16:30	Basis:	Wet Weight
Seq Number:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.15.2020 00:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.15.2020 00:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.15.2020 00:43	
1,4-Difluorobenzene	540-36-3	117	%	70-130	08.15.2020 00:43	

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Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-4 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21
Lab Sample Id: 670009-004 Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P
Tech: CHE % Moisture:
Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight
Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**68.2**	4.96	mg/kg	08.14.2020 12:22		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
Tech: DVM % Moisture:
Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.14.2020 02:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.14.2020 02:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.14.2020 02:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.14.2020 02:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	08.14.2020 02:31	
o-Terphenyl	84-15-1	122	%	70-130	08.14.2020 02:31	

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Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-4 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-004	Date Collected:	08.12.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.14.2020 16:30	Basis:	Wet Weight
Seq Number:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.15.2020 01:04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.15.2020 01:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	08.15.2020 01:04	
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.15.2020 01:04	

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Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-5 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-005	Date Collected:	08.12.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.14.2020 09:45	Basis:	Wet Weight
Seq Number:	3134684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**185**	5.04	mg/kg	08.14.2020 12:28		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.13.2020 17:00	Basis:	Wet Weight
Seq Number:	3134546				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.14.2020 02:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.14.2020 02:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.14.2020 02:49	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.14.2020 02:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	126	%	70-130	08.14.2020 02:49	
o-Terphenyl	84-15-1	124	%	70-130	08.14.2020 02:49	

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Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-5 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-005	Date Collected:	08.12.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.14.2020 16:30	Basis:	Wet Weight
Seq Number:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.15.2020 01:24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.15.2020 01:24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.15.2020 01:24	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.15.2020 01:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.15.2020 01:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.15.2020 01:24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.15.2020 01:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	08.15.2020 01:24	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.15.2020 01:24	

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Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-6 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-006 Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**55.4**	4.98	mg/kg	08.14.2020 12:33		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight

Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.14.2020 03:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.14.2020 03:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.14.2020 03:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.14.2020 03:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-130	08.14.2020 03:08	
o-Terphenyl	84-15-1	121	%	70-130	08.14.2020 03:08	

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Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-6 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-006	Date Collected:	08.12.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.14.2020 16:30	Basis:	Wet Weight
Seq Number:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.15.2020 02:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.15.2020 02:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.15.2020 02:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.15.2020 02:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.15.2020 02:47	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.15.2020 02:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.15.2020 02:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	08.15.2020 02:47	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.15.2020 02:47	

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Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-7 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-007	Date Collected:	08.12.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.14.2020 09:45	Basis:	Wet Weight
Seq Number:	3134684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.6**	5.03	mg/kg	08.14.2020 12:49		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.13.2020 17:00	Basis:	Wet Weight
Seq Number:	3134546				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 23:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 23:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 23:22	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 23:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	08.13.2020 23:22	
o-Terphenyl	84-15-1	123	%	70-130	08.13.2020 23:22	

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Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-7 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-007	Date Collected:	08.12.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.14.2020 16:30	Basis:	Wet Weight
Seq Number:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.15.2020 03:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.15.2020 03:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.15.2020 03:07	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.15.2020 03:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.15.2020 03:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.15.2020 03:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.15.2020 03:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.15.2020 03:07	
1,4-Difluorobenzene	540-36-3	118	%	70-130	08.15.2020 03:07	

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Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-8 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-008 Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.5**	4.96	mg/kg	08.14.2020 12:54		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight

Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 22:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 22:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 22:45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 22:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	08.13.2020 22:45	
o-Terphenyl	84-15-1	126	%	70-130	08.13.2020 22:45	

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Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-8 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-008	Date Collected:	08.12.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.14.2020 16:30	Basis:	Wet Weight
Seq Number:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.15.2020 03:28	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.15.2020 03:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	70-130	08.15.2020 03:28	
1,4-Difluorobenzene	540-36-3	118	%	70-130	08.15.2020 03:28	

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Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-9 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-009 Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.3**	4.95	mg/kg	08.14.2020 13:44		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight

Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.14.2020 03:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.14.2020 03:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.14.2020 03:27	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.14.2020 03:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-130	08.14.2020 03:27	
o-Terphenyl	84-15-1	131	%	70-130	08.14.2020 03:27	**

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Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-9 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-009	Date Collected:	08.12.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.14.2020 16:30	Basis:	Wet Weight
Seq Number:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.15.2020 03:48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.15.2020 03:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	119	%	70-130	08.15.2020 03:48	
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.15.2020 03:48	

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Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-10 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-010	Date Collected:	08.12.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.14.2020 09:45	Basis:	Wet Weight
Seq Number:	3134684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**20.2**	4.95	mg/kg	08.14.2020 13:49		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.13.2020 17:00	Basis:	Wet Weight
Seq Number:	3134546				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.13.2020 23:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.13.2020 23:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.13.2020 23:41	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.13.2020 23:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	08.13.2020 23:41	
o-Terphenyl	84-15-1	120	%	70-130	08.13.2020 23:41	

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Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-10 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-010	Date Collected:	08.12.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.14.2020 16:30	Basis:	Wet Weight
Seq Number:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.15.2020 04:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.15.2020 04:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.15.2020 04:09	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.15.2020 04:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.15.2020 04:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.15.2020 04:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.15.2020 04:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	08.15.2020 04:09	
1,4-Difluorobenzene	540-36-3	114	%	70-130	08.15.2020 04:09	

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Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id: **Horizontal-11 (0-1')** Matrix: Soil Date Received:08.13.2020 15:21

Lab Sample Id: 670009-011 Date Collected: 08.12.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.14.2020 09:45 Basis: Wet Weight

Seq Number: 3134684

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**33.6**	4.95	mg/kg	08.14.2020 13:55		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight

Seq Number: 3134546

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.14.2020 00:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.14.2020 00:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.14.2020 00:00	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.14.2020 00:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	08.14.2020 00:00	
o-Terphenyl	84-15-1	121	%	70-130	08.14.2020 00:00	

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Certificate of Analytical Results 670009

Tetra Tech- Midland, Midland, TX

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Sample Id:	**Horizontal-11 (0-1')**	Matrix:	Soil	Date Received:	08.13.2020 15:21
Lab Sample Id:	670009-011	Date Collected:	08.12.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.14.2020 16:30	Basis:	Wet Weight
Seq Number:	3134670				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.15.2020 04:29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.15.2020 04:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	08.15.2020 04:29	
1,4-Difluorobenzene	540-36-3	117	%	70-130	08.15.2020 04:29	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

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

QC Summary 670009

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Tetra Tech- Midland

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134684 — Matrix: Solid — Date Prep: 08.14.2020
MB Sample Id: 7709448-1-BLK — LCS Sample Id: 7709448-1-BKS — LCSD Sample Id: 7709448-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	241	96	241	96	90-110	0	20	mg/kg	08.14.2020 10:34	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134684 — Matrix: Soil — Date Prep: 08.14.2020
Parent Sample Id: 670008-021 — MS Sample Id: 670008-021 S — MSD Sample Id: 670008-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5890	2520	8660	110	8690	111	90-110	0	20	mg/kg	08.14.2020 10:50	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3134684 — Matrix: Soil — Date Prep: 08.14.2020
Parent Sample Id: 670009-006 — MS Sample Id: 670009-006 S — MSD Sample Id: 670009-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	55.4	249	323	107	324	108	90-110	0	20	mg/kg	08.14.2020 12:38	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134546 — Matrix: Solid — Date Prep: 08.13.2020
MB Sample Id: 7709438-1-BLK — LCS Sample Id: 7709438-1-BKS — LCSD Sample Id: 7709438-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	984	98	985	99	70-130	0	20	mg/kg	08.13.2020 17:58	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	1040	104	70-130	1	20	mg/kg	08.13.2020 17:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		130		130		70-130	%	08.13.2020 17:58
o-Terphenyl	135	**	129		127		70-130	%	08.13.2020 17:58

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3134546 — Matrix: Solid — Date Prep: 08.13.2020
MB Sample Id: 7709438-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.13.2020 17:39	

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

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

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

QC Summary 670009

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Tetra Tech- Midland

Concho Sea Biscuit Federal Com 002H (5.20.2020)

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3134546 Matrix: Soil Date Prep: 08.13.2020
Parent Sample Id: 670008-001 MS Sample Id: 670008-001 S MSD Sample Id: 670008-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	941	94	953	96	70-130	1	20	mg/kg	08.13.2020 18:56	
Diesel Range Organics (DRO)	<49.9	998	995	100	1030	103	70-130	3	20	mg/kg	08.13.2020 18:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		89		70-130	%	08.13.2020 18:56
o-Terphenyl	115		113		70-130	%	08.13.2020 18:56

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3134670 Matrix: Solid Date Prep: 08.14.2020
MB Sample Id: 7709516-1-BLK LCS Sample Id: 7709516-1-BKS LCSD Sample Id: 7709516-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.104	104	0.100	100	70-130	4	35	mg/kg	08.14.2020 19:56	
Toluene	<0.00200	0.100	0.0921	92	0.0869	87	70-130	6	35	mg/kg	08.14.2020 19:56	
Ethylbenzene	<0.00200	0.100	0.0886	89	0.0811	81	70-130	9	35	mg/kg	08.14.2020 19:56	
m,p-Xylenes	<0.00400	0.200	0.169	85	0.156	78	70-130	8	35	mg/kg	08.14.2020 19:56	
o-Xylene	<0.00200	0.100	0.0857	86	0.0778	78	70-130	10	35	mg/kg	08.14.2020 19:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		105		105		70-130	%	08.14.2020 19:56
4-Bromofluorobenzene	105		90		89		70-130	%	08.14.2020 19:56

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3134670 Matrix: Soil Date Prep: 08.14.2020
Parent Sample Id: 670008-001 MS Sample Id: 670008-001 S MSD Sample Id: 670008-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0920	92	0.0923	92	70-130	0	35	mg/kg	08.14.2020 20:37	
Toluene	<0.00201	0.100	0.0770	77	0.0783	78	70-130	2	35	mg/kg	08.14.2020 20:37	
Ethylbenzene	<0.00201	0.100	0.0686	69	0.0705	71	70-130	3	35	mg/kg	08.14.2020 20:37	X
m,p-Xylenes	<0.00402	0.201	0.132	66	0.136	68	70-130	3	35	mg/kg	08.14.2020 20:37	X
o-Xylene	<0.00201	0.100	0.0654	65	0.0667	67	70-130	2	35	mg/kg	08.14.2020 20:37	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		107		70-130	%	08.14.2020 20:37
4-Bromofluorobenzene	93		96		70-130	%	08.14.2020 20:37

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

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

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

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

670009

Client Name: Concho	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 212C-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Devin Dominguez
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2020 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	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	TPH 8015R			Hold
	Horizontal-1(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-2(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-3(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-4(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-5(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-6(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-7(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-8(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-9(0-1')	8/12/2020			X				X			1	N	X		X												X							
	Horizontal-10(0-1')	8/12/2020			X				X			1	N	X		X												X							

Relinquished by: Comm mailing	Date: 8/13/20	Time: 1521	Received by: [signature]
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Date: 8/13 Time: 1521

LAB USE ONLY

Sample Temperature: 0.8/0.4

REMARKS:

- ☐ STANDARD
- ☒ 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

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

le70009

Client Name: Concho	**Site Manager:** Mike Carmona
Project Name: Sea Biscuit Federal Com 002H (5.20.2020)	
Project Location: (county, state) Eddy County, New Mexico	**Project #:** 2121-MD-02226
Invoice to: Ike Tavarez	
Receiving Laboratory: Xenco	**Sampler Signature:** Devin Dominguez
Comments:	

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: None	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	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	TPH 8015R			Hold
	Horizontal-11(0-1')	8/12/2020			X				X			1	N	X		X												X						

Relinquished by: Comm mailing Date: 8/13/20 Time: 1521
Received by: BTM Date: 8/13 Time: 1521

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

LAB USE ONLY
Sample Temperature
0.8/0.4

REMARKS:
☐ STANDARD
☒ 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

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 08.13.2020 03.21.00 PM

Work Order #: 670009

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.4	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**Yes**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 08.13.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 08.14.2020
Jessica Kramer

CARDINAL Laboratories

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

July 08, 2022

STEVE JESTER

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SEABISCUIT FED. COM #002H FLOWINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/05/22 14:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 1 (0-1') (H222859-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/07/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/07/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *112 %* *43-149*

Surrogate: 1-Chlorooctadecane *125 %* *42.5-161*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 1 (2-3') (H222859-02)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/07/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/07/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *120 %* *43-149*

Surrogate: 1-Chlorooctadecane *137 %* *42.5-161*

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Analytical Results For:

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 1W (0-1') (H222859-03)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/07/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.8 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/07/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *87.9 %* *43-149*

Surrogate: 1-Chlorooctadecane *95.2 %* *42.5-161*

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Analytical Results For:

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 2 (0-1') (H222859-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/07/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.4 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	07/07/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *85.4 %* *43-149*

Surrogate: 1-Chlorooctadecane *93.2 %* *42.5-161*

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Analytical Results For:

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Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 2 (2-3') (H222859-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/07/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	07/07/2022	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	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *112 %* *43-149*

Surrogate: 1-Chlorooctadecane *125 %* *42.5-161*

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Analytical Results For:

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Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 2W (0-1') (H222859-06)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/07/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**13200**	16.0	07/07/2022	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	07/08/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *99.1 %* *43-149*

Surrogate: 1-Chlorooctadecane *109 %* *42.5-161*

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Analytical Results For:

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 3 (0-1') (H222859-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/07/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	07/07/2022	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	07/08/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *101 %* *43-149*

Surrogate: 1-Chlorooctadecane *109 %* *42.5-161*

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Analytical Results For:

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Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 4 (0-1') (H222859-08)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/07/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.8 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**288**	16.0	07/07/2022	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	07/08/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *115 %* *43-149*

Surrogate: 1-Chlorooctadecane *127 %* *42.5-161*

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Analytical Results For:

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 5 (0-1') (H222859-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/08/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/07/2022	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	07/08/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *66.8 %* *43-149*

Surrogate: 1-Chlorooctadecane *73.7 %* *42.5-161*

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Analytical Results For:

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Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 5E (0-1') (H222859-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/08/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.8 %* *69.9-140*

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	07/07/2022	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	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *135 %* *43-149*

Surrogate: 1-Chlorooctadecane *151 %* *42.5-161*

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Analytical Results For:

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Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 6 (0-1') (H222859-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/08/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.2 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/07/2022	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	07/07/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *111 %* *43-149*

Surrogate: 1-Chlorooctadecane *125 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 7 (0-1') (H222859-12)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/08/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/07/2022	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	07/08/2022	ND	193	96.6	200	1.53	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	185	92.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *112 %* *43-149*

Surrogate: 1-Chlorooctadecane *124 %* *42.5-161*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/05/2022	Sampling Date:	07/05/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 4E (0-1') (H222859-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	1.96	98.0	2.00	4.74	
Toluene*	<0.050	0.050	07/08/2022	ND	2.05	102	2.00	6.36	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	1.97	98.3	2.00	5.91	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.64	111	6.00	6.12	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.6 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	07/07/2022	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	07/07/2022	ND	194	97.0	200	7.20	QM-07
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	173	86.7	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *80.2 %* *43-149*

Surrogate: 1-Chlorooctadecane *86.7 %* *42.5-161*

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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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/2

Company Name:	ConocoPhillips
Project Manager:	Steve Jester
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	212C-MD-02722 Project Owner:
Project Name:	Seabiscuit Fed. Com #002H Flowline Release
Project Location:	Lea County, NM
Sampler Name:	Colton Bickerstaff

BILL TO

P.O. #:	
Company:	Tetra Tech
Attn:	Steve Jester
Address:	by email
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH	BTEX	Chlorides
H222859																	
1	PL-1 (0-1')	G	1			X							7/5/22		X	X	X
2	PL-1 (2'-3')																
3	PL-1w (0-1')																
4	PL-2 (0-1')																
5	PL-2 (2'-3')																
6	PL-2w (0-1')																
7	PL-3 (0-1')																
8	PL-4 (0-1')																
9	PL-5 (0-1')																
10	PL-5e (0-1')																

Relinquished By:	Date: 7/5/22	Received By:	
	Time: 1419		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☑ No Add'l Phone #:

All Results are emailed. Please provide Email address:

Steve.Jester@tetratech.com

REMARKS:

Delivered By: (Circle One)	Observed Temp. °C 34.4°	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C 33.9°	☐ Yes ☑ Yes ☑ No ☐ No	SR	Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Company Name:	ConocoPhillips
Project Manager:	Steve Jester
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	212C-MD-02722 Project Owner:
Project Name:	Seabiscuit Fed. Com #002H Flowline Release
Project Location:	Lea County, NM
Sampler Name:	Colton Bickerstaff

BILL TO

P.O. #:	
Company:	Tetra Tech
Attn:	Steve Jester
Address:	by email
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	SAMPLING TIME	TPH	BTEX	Chlorides
H222859																	
11	PL-6 (0-1')	G	1			X							7/5/22		X	X	X
12	PL-7 (0-1')	G	1			X							7/5/22		X	X	X
13	PL-4e (0-1')	G	1			X							7/5/22		X	X	X

Relinquished By:	Date: 7/5/22	Received By:	
	Time: 1419		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☑ No Add'l Phone #:

All Results are emailed. Please provide Email address:

Steve.Jester@tetratech.com

REMARKS:

Delivered By: (Circle One)	Observed Temp. °C 34.4	Sample Condition Cool: ☑ Yes ☐ No	Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C 33.9			

Turnaround Time: Standard ☑ Rush ☐

Thermometer ID #113
Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

July 08, 2022

STEVE JESTER

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SEABISCUIT FED. COM #002H FLOWINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/06/22 14:47.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 8 (0-1') (H222894-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983	
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1470**	16.0	07/07/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *92.7 %* *43-149*

Surrogate: 1-Chlorooctadecane *110 %* *42.5-161*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 8 W (0-1') (H222894-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983	
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/07/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *75.7 %* *43-149*

Surrogate: 1-Chlorooctadecane *90.2 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 9 (0-1') (H222894-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983	
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

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	07/07/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *87.2 %* *43-149*

Surrogate: 1-Chlorooctadecane *101 %* *42.5-161*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 9 E (0-1') (H222894-04)

BTEX 8021B mg/kg **Analyzed By: JH/**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983	
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	07/07/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	**1290**	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	**467**	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *80.3 %* *43-149*

Surrogate: 1-Chlorooctadecane *115 %* *42.5-161*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 10 (0-1') (H222894-05)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983	
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	07/07/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *48.0 %* *43-149*

Surrogate: 1-Chlorooctadecane *56.6 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 10 E (0-1') (H222894-06)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983	
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1010**	16.0	07/07/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	**34.2**	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *85.5 %* *43-149*

Surrogate: 1-Chlorooctadecane *102 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 11 (0-1') (H222894-07)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983	
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5440**	16.0	07/07/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	**85.6**	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	**18.4**	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *64.8 %* *43-149*

Surrogate: 1-Chlorooctadecane *80.4 %* *42.5-161*

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901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 11 W (0-1') (H222894-08)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	0.983	
Toluene*	<0.050	0.050	07/07/2022	ND	2.18	109	2.00	0.432	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.21	110	2.00	1.01	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.72	112	6.00	1.30	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/07/2022	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *71.6 %* *43-149*

Surrogate: 1-Chlorooctadecane *84.6 %* *42.5-161*

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 12 (0-1') (H222894-09)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/07/2022	ND	2.12	106	2.00	1.09	
Toluene*	<0.050	0.050	07/07/2022	ND	2.12	106	2.00	0.702	
Ethylbenzene*	<0.050	0.050	07/07/2022	ND	2.13	106	2.00	1.36	
Total Xylenes*	<0.150	0.150	07/07/2022	ND	6.46	108	6.00	1.27	
Total BTEX	<0.300	0.300	07/07/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *87.3 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1550**	16.0	07/07/2022	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	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *89.4 %* *43-149*

Surrogate: 1-Chlorooctadecane *107 %* *42.5-161*

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STEVE JESTER
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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 12 W (0-1') (H222894-10)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.11	106	2.00	1.03	
Toluene*	<0.050	0.050	07/08/2022	ND	2.13	106	2.00	2.27	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.16	108	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.62	110	6.00	0.751	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	07/07/2022	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	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *81.2 %* *43-149*

Surrogate: 1-Chlorooctadecane *96.8 %* *42.5-161*

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901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 13 (0-1') (H222894-11)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.11	106	2.00	1.03	
Toluene*	<0.050	0.050	07/08/2022	ND	2.13	106	2.00	2.27	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.16	108	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.62	110	6.00	0.751	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/07/2022	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	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *80.0 %* *43-149*

Surrogate: 1-Chlorooctadecane *96.1 %* *42.5-161*

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Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 13 E (0-1') (H222894-12)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.11	106	2.00	1.03	
Toluene*	<0.050	0.050	07/08/2022	ND	2.13	106	2.00	2.27	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.16	108	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.62	110	6.00	0.751	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**480**	16.0	07/07/2022	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	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *81.7 %* *43-149*

Surrogate: 1-Chlorooctadecane *99.2 %* *42.5-161*

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Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 14 (0-1') (H222894-13)

BTEX 8021B mg/kg **Analyzed By: JH/**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.11	106	2.00	1.03	
Toluene*	<0.050	0.050	07/08/2022	ND	2.13	106	2.00	2.27	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.16	108	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.62	110	6.00	0.751	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	07/07/2022	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	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *83.0 %* *43-149*

Surrogate: 1-Chlorooctadecane *96.8 %* *42.5-161*

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Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 14 (2-3') (H222894-14)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.11	106	2.00	1.03	
Toluene*	<0.050	0.050	07/08/2022	ND	2.13	106	2.00	2.27	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.16	108	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.62	110	6.00	0.751	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1150**	16.0	07/07/2022	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	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *73.0 %* *43-149*

Surrogate: 1-Chlorooctadecane *88.0 %* *42.5-161*

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Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 14 E (0-1') (H222894-15)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.11	106	2.00	1.03	
Toluene*	<0.050	0.050	07/08/2022	ND	2.13	106	2.00	2.27	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.16	108	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.62	110	6.00	0.751	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	07/07/2022	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	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *81.4 %* *43-149*

Surrogate: 1-Chlorooctadecane *98.0 %* *42.5-161*

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STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 15 (0-1') (H222894-16)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.11	106	2.00	1.03	
Toluene*	<0.050	0.050	07/08/2022	ND	2.13	106	2.00	2.27	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.16	108	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.62	110	6.00	0.751	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**784**	16.0	07/07/2022	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	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *79.9 %* *43-149*

Surrogate: 1-Chlorooctadecane *95.4 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 15 (2-3') (H222894-17)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.11	106	2.00	1.03	
Toluene*	<0.050	0.050	07/08/2022	ND	2.13	106	2.00	2.27	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.16	108	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.62	110	6.00	0.751	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1650**	16.0	07/07/2022	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	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *75.2 %* *43-149*

Surrogate: 1-Chlorooctadecane *87.5 %* *42.5-161*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 21 (0-1') (H222894-18)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.11	106	2.00	1.03	
Toluene*	<0.050	0.050	07/08/2022	ND	2.13	106	2.00	2.27	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.16	108	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.62	110	6.00	0.751	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.8 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	07/07/2022	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	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *120 %* *43-149*

Surrogate: 1-Chlorooctadecane *142 %* *42.5-161*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/06/2022	Sampling Date:	07/06/2022
Reported:	07/08/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: PL - 21 (2-3') (H222894-19)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.11	106	2.00	1.03	
Toluene*	<0.050	0.050	07/08/2022	ND	2.13	106	2.00	2.27	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.16	108	2.00	1.33	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.62	110	6.00	0.751	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	07/07/2022	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	07/07/2022	ND	219	110	200	7.50	
DRO >C10-C28*	<10.0	10.0	07/07/2022	ND	215	107	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	07/07/2022	ND					

Surrogate: 1-Chlorooctane *102 %* *43-149*

Surrogate: 1-Chlorooctadecane *121 %* *42.5-161*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/2

Company Name:	ConocoPhillips
Project Manager:	Steve Jester
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	212C-MD-02722 Project Owner:
Project Name:	Seabiscuit Fed. Com #002H Flowline Release
Project Location:	Lea County, NM
Sampler Name:	Colton Birkenstaff

BILL TO

P.O. #:	
Company:	Tetra Tech
Attn:	Steve Jester
Address:	by email
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	SAMPLING TIME	TPH	BTEX	Chlorides
H222894																	
1	PL-8 (0-1')	G	1			X							7/6/22		X	X	X
2	PL-8w (0-1')																
3	PL-9 (0-1')																
4	PL-9e (0-1')																
5	PL-10 (0-1')																
6	PL-10e (0-1')																
7	PL-11 (0-1')																
8	PL-11w (0-1')																
9	PL-12 (0-1')																
10	PL-12w (0-1')																

Relinquished By:	Date: 7/6/22	Received By:	
Colton Birkenstaff	Time: 1447		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☑ No Add'l Phone #:

All Results are emailed. Please provide Email address: steve.jester@tetratech.com

REMARKS:

Delivered By: (Circle One)	Observed Temp. °C 28.1	Sample Condition: Cool ☐ Yes ☑ No	Intact ☑ Yes ☐ No	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C 27.6			

Turnaround Time: Standard ☑ Rush ☐

Thermometer ID #113
Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Company Name:	ConocoPhillips
Project Manager:	Steve Jester
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	212C-MD-02722 Project Owner:
Project Name:	Seabiscuit Fed. Com #002H Flowline Release
Project Location:	Lea County, NM
Sampler Name:	Colton Bickerstaff

BILL TO

P.O. #:	
Company:	Tetra Tech
Attn:	Steve Jester
Address:	by email
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH	BTEX	Chlorides
H222894																	
11	PL-13 (0-1')	G	1			X							7/6/22		X	X	X
12	PL-13e (0-1')																
13	PL-14 (0-1')																
14	PL-14 (2'-3')																
15	PL-14e (0-1')																
16	PL-15 (0-1')																
17	PL-15 (2'-3')																
18	PL-21 (0-1')												7/6/22				
19	PL-21 (2'-3')												7/6/22				

CB

Relinquished By:	Date: 7/6/22	Received By:	
Colton Bickerstaff	Time: 1447		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☑ No Add'l Phone #:

All Results are emailed. Please provide Email address:

Steve.Jester@tetratech.com

REMARKS:

Delivered By: (Circle One)	Observed Temp. °C 28.1	Sample Condition: Cool ☐ Yes ☐ No	Intact ☑ Yes ☐ No	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C 27.6			

Turnaround Time: Standard ☑ Rush ☐

Thermometer ID #113
Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

July 12, 2022

STEVE JESTER

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SEABISCUIT FED. COM #002H FLOWINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/07/22 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 16 (0-1') (H222924-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1090**	16.0	07/08/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *84.0 %* *43-149*

Surrogate: 1-Chlorooctadecane *95.7 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 16 (2-3') (H222924-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3760**	16.0	07/08/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *84.2 %* *43-149*

Surrogate: 1-Chlorooctadecane *96.4 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 16 E (0-1') (H222924-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	07/08/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *83.8 %* *43-149*

Surrogate: 1-Chlorooctadecane *95.0 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 17 (0-1') (H222924-04)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

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	07/08/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane *86.4 %* *43-149*

Surrogate: 1-Chlorooctadecane *97.2 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 17 (2-3') (H222924-05)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2840**	16.0	07/08/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *74.8 %* *43-149*

Surrogate: 1-Chlorooctadecane *84.7 %* *42.5-161*

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 17 E (0-1') (H222924-06)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2160**	16.0	07/08/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *77.2 %* *43-149*

Surrogate: 1-Chlorooctadecane *89.2 %* *42.5-161*

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 18 (0-1') (H222924-07)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**608**	16.0	07/08/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *80.5 %* *43-149*

Surrogate: 1-Chlorooctadecane *92.9 %* *42.5-161*

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 18 (2-3') (H222924-08)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1550**	16.0	07/08/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *82.2 %* *43-149*

Surrogate: 1-Chlorooctadecane *94.0 %* *42.5-161*

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Analytical Results For:

TETRA TECH
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901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 19 (0-1') (H222924-09)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**400**	16.0	07/08/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *83.1 %* *43-149*

Surrogate: 1-Chlorooctadecane *96.0 %* *42.5-161*

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 19 (2-3') (H222924-10)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1800**	16.0	07/08/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *81.6 %* *43-149*

Surrogate: 1-Chlorooctadecane *94.8 %* *42.5-161*

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 19 E (0-1') (H222924-11)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**624**	16.0	07/08/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *83.1 %* *43-149*

Surrogate: 1-Chlorooctadecane *95.8 %* *42.5-161*

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 20 (0-1') (H222924-12)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**912**	16.0	07/08/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *83.3 %* *43-149*

Surrogate: 1-Chlorooctadecane *95.6 %* *42.5-161*

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Analytical Results For:

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STEVE JESTER
901 WEST WALL STREET , STE 100
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Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 20 (2-3') (H222924-13)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.12	106	2.00	0.843	
Toluene*	<0.050	0.050	07/09/2022	ND	2.16	108	2.00	0.335	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.19	110	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.73	112	6.00	0.772	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3600**	16.0	07/08/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *81.5 %* *43-149*

Surrogate: 1-Chlorooctadecane *93.3 %* *42.5-161*

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901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 20 W (0-1') (H222924-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	9.28	
Toluene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	9.39	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	9.78	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.33	106	6.00	8.81	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.7 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/08/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/08/2022	ND	182	90.8	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/08/2022	ND	184	92.0	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	07/08/2022	ND					

Surrogate: 1-Chlorooctane *76.8 %* *43-149*

Surrogate: 1-Chlorooctadecane *87.4 %* *42.5-161*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 20 E (0-1') (H222924-15)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	9.28	
Toluene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	9.39	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	9.78	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.33	106	6.00	8.81	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.4 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	07/08/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	162	80.9	200	1.84	
DRO >C10-C28*	**1190**	10.0	07/12/2022	ND	167	83.7	200	0.582	QM-07
EXT DRO >C28-C36	**822**	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane *69.6 %* *43-149*

Surrogate: 1-Chlorooctadecane *129 %* *42.5-161*

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STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 22 (0-1') (H222924-16)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2022	ND	2.09	104	2.00	9.28	
Toluene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	9.39	
Ethylbenzene*	<0.050	0.050	07/08/2022	ND	2.08	104	2.00	9.78	
Total Xylenes*	<0.150	0.150	07/08/2022	ND	6.33	106	6.00	8.81	
Total BTEX	<0.300	0.300	07/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.5 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**480**	16.0	07/08/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	162	80.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	167	83.7	200	0.582	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane *72.7 %* *43-149*

Surrogate: 1-Chlorooctadecane *76.7 %* *42.5-161*

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Analytical Results For:

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STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 22 (2-3') (H222924-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.09	104	2.00	9.28	
Toluene*	<0.050	0.050	07/09/2022	ND	2.08	104	2.00	9.39	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.08	104	2.00	9.78	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.33	106	6.00	8.81	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.8 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	07/08/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	162	80.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	167	83.7	200	0.582	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane *68.9 %* *43-149*

Surrogate: 1-Chlorooctadecane *70.1 %* *42.5-161*

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/07/2022	Sampling Date:	07/07/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Shalyn Rodriguez
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 22 W (0-1') (H222924-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2022	ND	2.09	104	2.00	9.28	
Toluene*	<0.050	0.050	07/09/2022	ND	2.08	104	2.00	9.39	
Ethylbenzene*	<0.050	0.050	07/09/2022	ND	2.08	104	2.00	9.78	
Total Xylenes*	<0.150	0.150	07/09/2022	ND	6.33	106	6.00	8.81	
Total BTEX	<0.300	0.300	07/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.4 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4960**	16.0	07/08/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	162	80.9	200	1.84	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	167	83.7	200	0.582	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane *73.0 %* *43-149*

Surrogate: 1-Chlorooctadecane *77.8 %* *42.5-161*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/2

Company Name: ConocoPhillips
Project Manager: Steve Jester
Address:
City: State: Zip:
Phone #: Fax #:
Project #: 212C-MD-02722 Project Owner:
Project Name: Seabiscuit Fed. Com #002H Flowline Release
Project Location: Lea County, NM
Sampler Name: Colton Bickerstaff

BILL TO
P.O. #:
Company: Tetra Tech
Attn: Steve Jester
Address: by email
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH	BTEX	Chlorides
H222924-1	PL-16 (0-1')	G	1			X							7/7/22		X	X	X
2	PL-16 (2'-3')																
3	PL-16e (0-1')																
4	PL-17 (0-1')																
5	PL-17 (2'-3')																
6	PL-17e (0-1')																
7	PL-18 (0-1')																
8	PL-18 (2'-3')																
9	PL-19 (0-1')																
10	PL-19 (2'-3')																

Relinquished By: Colton B Date: 7/7/22 Time: 1530
Received By: S Rodriguez
Relinquished By: Date: Time:
Received By:

Verbal Result: ☐ Yes ☑ No Add'l Phone #:
All Results are emailed. Please provide Email address:
Steve.Jester@tetratech.com
REMARKS:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Observed Temp. °C 33.1
Corrected Temp. °C 32.6
Sample Condition: Cool ☐ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials) SR

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor -0.5°C
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Company Name:	ConocoPhillips
Project Manager:	Steve Jester
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	212C-MD-02722 Project Owner:
Project Name:	Seabiscuit Fed. Com #002H Flowline Release
Project Location:	Lea County, NM
Sampler Name:	Colton Bickerstaff

BILL TO

P.O. #:	
Company:	Tetra Tech
Attn:	Steve Jester
Address:	by email
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH	BTEX	Chlorides
H222924																	
11	PL-19e (0-1')	G	1			X							7/7/22		X	X	X
12	PL-20 (0-1')																
13	PL-20 (2'-3')																
14	PL-20w (0-1')																
15	PL-20e (0-1')																
16	PL-22 (0-1')																
17	PL-22 (2'-3')																
18	PL-22w (0-1')																

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 7/7/22	Received By:	Verbal Result: ☐ Yes ☑ No Add'l Phone #:
	Time: 1530		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	Steve.Jester@tetratech.com
	Time:		REMARKS:

Delivered By: (Circle One)	Observed Temp. °C 33.1	Sample Condition: Cool ☐ Yes ☑ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: ☑ Standard ☐ Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C 32.6		SR	Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

July 12, 2022

STEVE JESTER

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SEABISCUIT FED. COM #002H FLOWINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/08/22 13:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 23 (0-1') (H222944-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	1.74	
Toluene*	<0.050	0.050	07/12/2022	ND	2.02	101	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.25	104	6.00	2.49	
Total BTEX	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *84.1 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1760**	16.0	07/12/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	188	93.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	197	98.3	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane *86.2 %* *43-149*

Surrogate: 1-Chlorooctadecane *95.3 %* *42.5-161*

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 23 (2'-3') (H222944-02)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	1.74	
Toluene*	<0.050	0.050	07/12/2022	ND	2.02	101	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.25	104	6.00	2.49	
Total BTEX	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *83.7 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4160**	16.0	07/12/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	188	93.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	197	98.3	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane *89.1 %* *43-149*

Surrogate: 1-Chlorooctadecane *102 %* *42.5-161*

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MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 23E (0-1') (H222944-03)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	1.74	
Toluene*	<0.050	0.050	07/12/2022	ND	2.02	101	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.25	104	6.00	2.49	
Total BTEX	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *84.4 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	07/12/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	188	93.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	197	98.3	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane *87.2 %* *43-149*

Surrogate: 1-Chlorooctadecane *98.0 %* *42.5-161*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 24 (0-1') (H222944-04)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	1.74	
Toluene*	<0.050	0.050	07/12/2022	ND	2.02	101	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.25	104	6.00	2.49	
Total BTEX	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *85.5 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**528**	16.0	07/12/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	188	93.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	197	98.3	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane *90.3 %* *43-149*

Surrogate: 1-Chlorooctadecane *101 %* *42.5-161*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 24 (2'-3') (H222944-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	1.74	
Toluene*	<0.050	0.050	07/12/2022	ND	2.02	101	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.25	104	6.00	2.49	
Total BTEX	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *84.3 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1100**	16.0	07/12/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	188	93.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	197	98.3	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane *89.1 %* *43-149*

Surrogate: 1-Chlorooctadecane *101 %* *42.5-161*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH
STEVE JESTER
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received:	07/08/2022	Sampling Date:	07/08/2022
Reported:	07/12/2022	Sampling Type:	Soil
Project Name:	SEABISCUIT FED. COM #002H FLOWINE	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02722	Sample Received By:	Tamara Oldaker
Project Location:	COP - LEA COUNTY, NM		

Sample ID: PL - 24E (0-1') (H222944-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2022	ND	1.89	94.3	2.00	1.74	
Toluene*	<0.050	0.050	07/12/2022	ND	2.02	101	2.00	1.98	
Ethylbenzene*	<0.050	0.050	07/12/2022	ND	2.08	104	2.00	2.19	
Total Xylenes*	<0.150	0.150	07/12/2022	ND	6.25	104	6.00	2.49	
Total BTEX	<0.300	0.300	07/12/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *83.4 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	07/12/2022	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2022	ND	188	93.8	200	1.36	
DRO >C10-C28*	<10.0	10.0	07/11/2022	ND	197	98.3	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	07/11/2022	ND					

Surrogate: 1-Chlorooctane *87.2 %* *43-149*

Surrogate: 1-Chlorooctadecane *99.4 %* *42.5-161*

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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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/1

Company Name:	ConocoPhillips
Project Manager:	Steve Jester
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	212c-MD-02722 Project Owner:
Project Name:	Scabbard Fed Com #002H Flowline Release
Project Location:	Lea County, NM
Sampler Name:	Colten Blackshaft

BILL TO

P.O. #:	
Company:	Tetra Tech
Attn:	Steve Jester
Address:	by email
City:	
State:	Zip:
Phone #:	
Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: TPH	BTEX	Chlorides
H222944																	
1	PL-23 (0-1')	G	1			X							7/18/22		X	X	X
2	PL-23 (2'-3')																
3	PL-23e (0-1')																
4	PL-24 (0-1')																
5	PL-24 (2'-3')																
6	PL-24e (0-1')																

Relinquished By:	Date: 7/18/22	Received By:	Verbal Result: ☐ Yes ☑ No Add'l Phone #:
Relinquished By:	Time: 1318	Received By:	All Results are emailed. Please provide Email address: Steve.Jester@tetratech.com
	Date:		REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 27.1	Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: ☐ Standard ☑ Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C 26.6		TO	Thermometer ID #113 Correction Factor -0.5°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

CARDINAL Laboratories

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

November 28, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SEABISCUIT FED. COM #002H FLOWINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/10/22 12:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 28-Nov-22 13:43

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TR - 1 (0-4')	H225333-01	Soil	09-Nov-22 00:00	10-Nov-22 12:38
TR - 2 (0-4')	H225333-02	Soil	09-Nov-22 00:00	10-Nov-22 12:38
TR - 3 (0-4')	H225333-03	Soil	10-Nov-22 00:00	10-Nov-22 12:38
TR - 4 (0-4')	H225333-04	Soil	09-Nov-22 00:00	10-Nov-22 12:38
TR - 5 (0-4')	H225333-05	Soil	09-Nov-22 00:00	10-Nov-22 12:38
TR - 6 (0-3')	H225333-06	Soil	09-Nov-22 00:00	10-Nov-22 12:38
TR - 7 (0-4')	H225333-07	Soil	09-Nov-22 00:00	10-Nov-22 12:38
TR - 8 (0-4')	H225333-08	Soil	09-Nov-22 00:00	10-Nov-22 12:38
TR - 9 (0-4')	H225333-09	Soil	09-Nov-22 00:00	10-Nov-22 12:38

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 28-Nov-22 13:43

TR - 1 (0-4')

H225333-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Green Analytical Laboratories										
Saturated Paste Extraction										
Calcium	**1200**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
Magnesium	**178**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
SAR	**39.1**			No Unit	1	B223206	AES	18-Nov-22	Calculation	
Sodium	**5490**		100	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	

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CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 28-Nov-22 13:43

TR - 2 (0-4')

H225333-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Green Analytical Laboratories										
Saturated Paste Extraction										
Calcium	**2330**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
Magnesium	**353**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
SAR	**44.4**			No Unit	1	B223206	AES	18-Nov-22	Calculation	
Sodium	**8690**		100	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 28-Nov-22 13:43

TR - 3 (0-4')

H225333-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Green Analytical Laboratories										
Saturated Paste Extraction										
Calcium	**2790**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
Magnesium	**434**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
SAR	**51.2**			No Unit	1	B223206	AES	18-Nov-22	Calculation	
Sodium	**11000**		100	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	

Cardinal Laboratories

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CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 28-Nov-22 13:43

TR - 4 (0-4')

H225333-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Green Analytical Laboratories										
Saturated Paste Extraction										
Calcium	**85.3**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
Magnesium	**11.9**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
SAR	**20.5**			No Unit	1	B223206	AES	18-Nov-22	Calculation	
Sodium	**762**		100	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	

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CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 28-Nov-22 13:43

TR - 5 (0-4')

H225333-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Green Analytical Laboratories										
Saturated Paste Extraction										
Calcium	**135**		1.00	mg/L	10	B223206	AES	18-Nov-22	EPA200.7	
Magnesium	**22.2**		1.00	mg/L	10	B223206	AES	18-Nov-22	EPA200.7	
SAR	**23.3**			No Unit	1	B223206	AES	18-Nov-22	Calculation	
Sodium	**1110**		10.0	mg/L	10	B223206	AES	18-Nov-22	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 28-Nov-22 13:43

TR - 6 (0-3')

H225333-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Green Analytical Laboratories										
Saturated Paste Extraction										
Calcium	**1560**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
Magnesium	**215**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
SAR	**45.7**			No Unit	1	B223206	AES	18-Nov-22	Calculation	
Sodium	**7260**		100	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 28-Nov-22 13:43

TR - 7 (0-4')

H225333-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Green Analytical Laboratories										
Saturated Paste Extraction										
Calcium	**2120**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
Magnesium	**301**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
SAR	**45.2**			No Unit	1	B223206	AES	18-Nov-22	Calculation	
Sodium	**8390**		100	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 28-Nov-22 13:43

TR - 8 (0-4')

H225333-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Green Analytical Laboratories										
Saturated Paste Extraction										
Calcium	**647**		2.00	mg/L	20	B223206	AES	18-Nov-22	EPA200.7	
Magnesium	**72.3**		2.00	mg/L	20	B223206	AES	18-Nov-22	EPA200.7	
SAR	**10.7**			No Unit	1	B223206	AES	18-Nov-22	Calculation	
Sodium	**1070**		20.0	mg/L	20	B223206	AES	18-Nov-22	EPA200.7	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 28-Nov-22 13:43

TR - 9 (0-4')

H225333-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Green Analytical Laboratories										
Saturated Paste Extraction										
Calcium	**2110**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
Magnesium	**228**		10.0	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	
SAR	**24.7**			No Unit	1	B223206	AES	18-Nov-22	Calculation	
Sodium	**4480**		100	mg/L	100	B223206	AES	18-Nov-22	EPA200.7	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 28-Nov-22 13:43

Saturated Paste Extraction - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B223206 - Paste Extract										
Blank (B223206-BLK1)				Prepared: 16-Nov-22 Analyzed: 18-Nov-22						
Sodium	ND	1.00	mg/L							
SAR	0.00		No Unit							
Magnesium	ND	0.100	mg/L							
Calcium	ND	0.100	mg/L							
Reference (B223206-SRM1)				Prepared: 16-Nov-22 Analyzed: 18-Nov-22						
SAR	11.2		No Unit	10.5		106	90-110			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Conoco Phillips
Project Manager:	Christian Llull
Address:	
City:	State: Zip:
Phone #:	(512) 565-0190 Fax #:
Project #:	212C-MD-02722 Project Owner:
Project Name:	Seabiscuit Fed Com H002H Release
Project Location:	Lea County, NM
Sampler Name:	Miguel A. Flores

BILL TO

P.O. #:	
Company:	Tetra Tech Inc.
Attn:	Ray Roll
Address:	901 W. Wall St, Suite 100
City:	Midland
State:	TX Zip: 79701
Phone #:	(432) 682-4559
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	S.A.R
H225333-1	TR-1 (0-4')					X					X		11/9/22		X
2	TR-2 (0-4')					X					X		11/9/22		X
3	TR-3 (0-4')					X					X		11/10/22		X
4	TR-4 (0-4')					X					X		11/9/22		X
5	TR-5 (0-4')					X					X		11/9/22		X
6	TR-6 (0-3')					X					X		11/9/22		X
7	TR-7 (0-4')					X					X		11/9/22		X
8	TR-8 (0-4')					X					X		11/9/22		X
9	TR-9 (0-4')					X					X		11/9/22		X

Relinquished By: Miguel A Flores	Date: 11/10/22 Time: 12:38	Received By: Tamara Oldaker	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address:
			REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.0 Corrected Temp. °C 2.4	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) TO	Turnaround Time: ☑ Standard ☐ Rush Thermometer ID #113 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 07/18/22

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

CARDINAL Laboratories

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

November 29, 2022

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SEABISCUIT FED. COM #002H FLOWINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/10/22 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TR - 1 (0'-1')	H225334-01	Soil	10-Nov-22 08:00	10-Nov-22 12:35
TR - 1 (2'-3')	H225334-02	Soil	10-Nov-22 08:10	10-Nov-22 12:35
TR - 1 (4'-5')	H225334-03	Soil	10-Nov-22 08:30	10-Nov-22 12:35
TR - 1 (6'-7')	H225334-04	Soil	10-Nov-22 08:50	10-Nov-22 12:35
TR - 2 (0'-1')	H225334-05	Soil	10-Nov-22 09:30	10-Nov-22 12:35
TR - 2 (2'-3')	H225334-06	Soil	10-Nov-22 09:40	10-Nov-22 12:35
TR - 2 (4'-5')	H225334-07	Soil	10-Nov-22 09:50	10-Nov-22 12:35
TR - 2 (6'-7')	H225334-08	Soil	10-Nov-22 10:10	10-Nov-22 12:35
TR - 3 (0'-1')	H225334-09	Soil	10-Nov-22 11:00	10-Nov-22 12:35
TR - 3 (2'-3')	H225334-10	Soil	10-Nov-22 11:10	10-Nov-22 12:35
TR - 3 (4'-5')	H225334-11	Soil	10-Nov-22 11:30	10-Nov-22 12:35
TR - 3 (6'-7')	H225334-12	Soil	10-Nov-22 12:00	10-Nov-22 12:35
TR - 4 (0'-1')	H225334-13	Soil	09-Nov-22 14:20	10-Nov-22 12:35
TR - 4 (2'-3')	H225334-14	Soil	09-Nov-22 14:30	10-Nov-22 12:35
TR - 4 (4'-5')	H225334-15	Soil	09-Nov-22 14:40	10-Nov-22 12:35
TR - 4 (6'-7')	H225334-16	Soil	09-Nov-22 15:00	10-Nov-22 12:35
TR - 5 (0'-1')	H225334-17	Soil	09-Nov-22 13:00	10-Nov-22 12:35
TR - 5 (2'-3')	H225334-18	Soil	09-Nov-22 13:10	10-Nov-22 12:35
TR - 5 (4'-5')	H225334-19	Soil	09-Nov-22 13:30	10-Nov-22 12:35
TR - 5 (6'-7')	H225334-20	Soil	09-Nov-22 13:50	10-Nov-22 12:35
TR - 6 (0'-2')	H225334-21	Soil	09-Nov-22 10:00	10-Nov-22 12:35
TR - 6 (2'-3')	H225334-22	Soil	09-Nov-22 10:20	10-Nov-22 12:35
TR - 7 (0'-2')	H225334-23	Soil	09-Nov-22 11:40	10-Nov-22 12:35
TR - 7 (2'-4')	H225334-24	Soil	09-Nov-22 11:00	10-Nov-22 12:35
TR - 8 (0'-2')	H225334-25	Soil	09-Nov-22 11:20	10-Nov-22 12:35
TR - 8 (2'-4')	H225334-26	Soil	09-Nov-22 11:40	10-Nov-22 12:35
TR - 9 (0'-1')	H225334-27	Soil	09-Nov-22 12:00	10-Nov-22 12:35

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 1 (0'-1')

H225334-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*88.0 %*	*69.9-140*		*2111025*	JH	*15-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111019	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111019	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111019	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*98.5 %*	*45.3-161*		*2111019*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*106 %*	*46.3-178*		*2111019*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1690**		10.0	mg/kg wet	10	B223267	AES	22-Nov-22	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 1 (2'-3')

H225334-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*87.0 %*	*69.9-140*		*2111025*	JH	*13-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	**24.3**		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*108 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*123 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1920**		10.0	mg/kg wet	10	B223267	AES	22-Nov-22	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 1 (4'-5')

H225334-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*88.9 %*	*69.9-140*		*2111025*	JH	*13-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*108 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*120 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**5930**		50.0	mg/kg wet	50	B223267	AES	22-Nov-22	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 1 (6'-7')

H225334-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*88.0 %*	*69.9-140*		*2111025*	JH	*13-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*103 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*113 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**11300**		100	mg/kg wet	100	B223267	AES	22-Nov-22	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 2 (0'-1')

H225334-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*87.9 %*	*69.9-140*		*2111025*	JH	*15-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*103 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*113 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**298**		10.0	mg/kg wet	10	B223267	AES	22-Nov-22	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 2 (2'-3')

H225334-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*87.9 %*	*69.9-140*		*2111025*	JH	*13-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*98.7 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*110 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1200**		10.0	mg/kg wet	10	B223267	AES	22-Nov-22	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 2 (4'-5')

H225334-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*89.3 %*	*69.9-140*		*2111025*	JH	*13-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*96.8 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*107 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**12100**		100	mg/kg wet	100	B223267	AES	22-Nov-22	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 2 (6'-7')

H225334-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*88.9 %*	*69.9-140*		*2111025*	JH	*13-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*95.5 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*107 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**11100**		100	mg/kg wet	100	B223267	AES	22-Nov-22	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 3 (0'-1')

H225334-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*88.6 %*	*69.9-140*		*2111025*	JH	*15-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*110 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*122 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**2450**		20.0	mg/kg wet	20	B223267	AES	22-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 3 (2'-3')

H225334-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*87.5 %*	*69.9-140*		*2111025*	JH	*13-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*105 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*118 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**4090**		50.0	mg/kg wet	50	B223267	AES	28-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 3 (4'-5')

H225334-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*90.0 %*	*69.9-140*		*2111025*	JH	*15-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*95.5 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*109 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**16700**		100	mg/kg wet	100	B223267	AES	22-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 3 (6'-7')

H225334-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*89.1 %*	*69.9-140*		*2111025*	JH	*15-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*96.2 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*108 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**21100**		150	mg/kg wet	150	B223267	AES	22-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 4 (0'-1')

H225334-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	15-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*86.8 %*	*69.9-140*		*2111025*	JH	*15-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*102 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*115 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**12.4**		10.0	mg/kg wet	10	B223267	AES	22-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 4 (2'-3')

H225334-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111025	JH	13-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*86.7 %*	*69.9-140*		*2111025*	JH	*13-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*93.9 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*104 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**148**		10.0	mg/kg wet	10	B223267	AES	22-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 4 (4'-5')

H225334-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*69.9-140*		*2111034*	JH/	*11-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*99.4 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*111 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1360**		10.0	mg/kg wet	10	B223267	AES	22-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 4 (6'-7')

H225334-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*99.6 %*	*69.9-140*		*2111034*	JH/	*11-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*98.5 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*112 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1110**		10.0	mg/kg wet	10	B223267	AES	22-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 5 (0'-1')

H225334-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111034	JH	15-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111034	JH	15-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111034	JH	15-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111034	JH	15-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111034	JH	15-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*87.4 %*	*69.9-140*		*2111034*	JH	*15-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*118 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*129 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**431**		10.0	mg/kg wet	10	B223267	AES	22-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 5 (2'-3')

H225334-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111034	JH	15-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111034	JH	15-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111034	JH	15-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111034	JH	15-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111034	JH	15-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*88.5 %*	*69.9-140*		*2111034*	JH	*15-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	**29.7**		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*93.0 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*108 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**410**		10.0	mg/kg wet	10	B223267	AES	22-Nov-22	EPA300.0	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 5 (4'-5')

H225334-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*99.9 %*	*69.9-140*		*2111034*	JH/	*11-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	**10.8**		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*97.8 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*111 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**2300**		50.0	mg/kg wet	50	B223267	AES	28-Nov-22	EPA300.0	

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CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 5 (6'-7')

H225334-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*69.9-140*		*2111034*	JH/	*11-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*97.2 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*108 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**17500**		100	mg/kg wet	100	B223267	AES	22-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 6 (0'-2')

H225334-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*69.9-140*		*2111034*	JH/	*11-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111026	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*94.6 %*	*45.3-161*		*2111026*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*106 %*	*46.3-178*		*2111026*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**2060**		100	mg/kg wet	100	B223261	AES	28-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 6 (2'-3')

H225334-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111034	JH/	11-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*99.7 %*	*69.9-140*		*2111034*	JH/	*11-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*94.4 %*	*45.3-161*		*2111027*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*108 %*	*46.3-178*		*2111027*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**5830**		200	mg/kg wet	200	B223261	AES	28-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 7 (0'-2')

H225334-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.1 %*	*69.9-140*		*2111119*	JH	*13-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*103 %*	*45.3-161*		*2111027*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*117 %*	*46.3-178*		*2111027*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**488**		50.0	mg/kg wet	50	B223261	AES	28-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 7 (2'-4')

H225334-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111119	JH	15-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111119	JH	15-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111119	JH	15-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111119	JH	15-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111119	JH	15-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*87.1 %*	*69.9-140*		*2111119*	JH	*15-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*94.5 %*	*45.3-161*		*2111027*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*108 %*	*46.3-178*		*2111027*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**9660**		500	mg/kg wet	500	B223261	AES	28-Nov-22	EPA300.0	

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CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 8 (0'-2')

H225334-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111119	JH	16-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111119	JH	16-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111119	JH	16-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111119	JH	16-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111119	JH	16-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*87.2 %*	*69.9-140*		*2111119*	JH	*16-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*96.0 %*	*45.3-161*		*2111027*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*106 %*	*46.3-178*		*2111027*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**623**		50.0	mg/kg wet	50	B223261	AES	28-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 8 (2'-4')

H225334-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.7 %*	*69.9-140*		*2111119*	JH	*13-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*107 %*	*45.3-161*		*2111027*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*121 %*	*46.3-178*		*2111027*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**2680**		100	mg/kg wet	100	B223261	AES	28-Nov-22	EPA300.0	

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

TR - 9 (0'-1')

H225334-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2111119	JH	13-Nov-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*98.6 %*	*69.9-140*		*2111119*	JH	*13-Nov-22*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2111027	MS	11-Nov-22	8015B	
Surrogate: 1-Chlorooctane			*92.9 %*	*45.3-161*		*2111027*	MS	*11-Nov-22*	*8015B*	
Surrogate: 1-Chlorooctadecane			*104 %*	*46.3-178*		*2111027*	MS	*11-Nov-22*	*8015B*	
Green Analytical Laboratories										
Soluble (DI Water Extraction)										
Chloride	**1890**		100	mg/kg wet	100	B223261	AES	28-Nov-22	EPA300.0	

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CARDINAL Laboratories

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Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2111025 - Volatiles										
Blank (2111025-BLK1)				Prepared: 10-Nov-22 Analyzed: 13-Nov-22						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*ND*		mg/kg	*0.0500*		*87.5*	*69.9-140*			
LCS (2111025-BS1)				Prepared: 10-Nov-22 Analyzed: 13-Nov-22						
Benzene	2.00	0.050	mg/kg	2.00		100	83.4-122			
Toluene	2.09	0.050	mg/kg	2.00		105	84.2-126			
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	84.2-121			
m,p-Xylene	4.19	0.100	mg/kg	4.00		105	89.9-126			
o-Xylene	1.97	0.050	mg/kg	2.00		98.6	84.3-123			
Total Xylenes	6.17	0.150	mg/kg	6.00		103	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0427*		mg/kg	*0.0500*		*85.3*	*69.9-140*			
LCS Dup (2111025-BSD1)				Prepared: 10-Nov-22 Analyzed: 13-Nov-22						
Benzene	1.94	0.050	mg/kg	2.00		97.2	83.4-122	2.87	12.6	
Toluene	2.07	0.050	mg/kg	2.00		104	84.2-126	1.08	13.3	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.3	84.2-121	1.99	13.9	
m,p-Xylene	4.11	0.100	mg/kg	4.00		103	89.9-126	1.97	13.6	
o-Xylene	1.95	0.050	mg/kg	2.00		97.4	84.3-123	1.22	14.1	
Total Xylenes	6.06	0.150	mg/kg	6.00		101	89.1-124	1.73	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0428*		mg/kg	*0.0500*		*85.6*	*69.9-140*			
Batch 2111034 - Volatiles										
Blank (2111034-BLK1)				Prepared: 10-Nov-22 Analyzed: 11-Nov-22						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2111034 - Volatiles										
Blank (2111034-BLK1)				Prepared: 10-Nov-22 Analyzed: 11-Nov-22						
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0503*		mg/kg	*0.0500*		*101*	*69.9-140*			
LCS (2111034-BS1)				Prepared: 10-Nov-22 Analyzed: 11-Nov-22						
Benzene	1.92	0.050	mg/kg	2.00		95.9	83.4-122			
Toluene	1.98	0.050	mg/kg	2.00		99.2	84.2-126			
Ethylbenzene	1.98	0.050	mg/kg	2.00		98.8	84.2-121			
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	89.9-126			
o-Xylene	1.99	0.050	mg/kg	2.00		99.4	84.3-123			
Total Xylenes	6.11	0.150	mg/kg	6.00		102	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0511*		mg/kg	*0.0500*		*102*	*69.9-140*			
LCS Dup (2111034-BSD1)				Prepared: 10-Nov-22 Analyzed: 11-Nov-22						
Benzene	1.93	0.050	mg/kg	2.00		96.7	83.4-122	0.878	12.6	
Toluene	1.98	0.050	mg/kg	2.00		99.1	84.2-126	0.118	13.3	
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	84.2-121	1.71	13.9	
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	89.9-126	0.512	13.6	
o-Xylene	2.01	0.050	mg/kg	2.00		101	84.3-123	1.26	14.1	
Total Xylenes	6.16	0.150	mg/kg	6.00		103	89.1-124	0.756	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0507*		mg/kg	*0.0500*		*101*	*69.9-140*			
Batch 2111119 - Volatiles										
Blank (2111119-BLK1)				Prepared: 11-Nov-22 Analyzed: 13-Nov-22						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*ND*		mg/kg	*0.0500*		*98.9*	*69.9-140*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2111119 - Volatiles										
LCS (2111119-BS1)				Prepared: 11-Nov-22 Analyzed: 13-Nov-22						
Benzene	1.98	0.050	mg/kg	2.00		99.1	83.4-122			
Toluene	2.17	0.050	mg/kg	2.00		109	84.2-126			
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.2-121			
m,p-Xylene	4.08	0.100	mg/kg	4.00		102	89.9-126			
o-Xylene	1.99	0.050	mg/kg	2.00		99.3	84.3-123			
Total Xylenes	6.06	0.150	mg/kg	6.00		101	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0496*		mg/kg	*0.0500*		*99.1*	*69.9-140*			
LCS Dup (2111119-BSD1)				Prepared: 11-Nov-22 Analyzed: 13-Nov-22						
Benzene	1.93	0.050	mg/kg	2.00		96.6	83.4-122	2.46	12.6	
Toluene	2.14	0.050	mg/kg	2.00		107	84.2-126	1.66	13.3	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	84.2-121	1.68	13.9	
m,p-Xylene	3.99	0.100	mg/kg	4.00		99.8	89.9-126	2.16	13.6	
o-Xylene	1.95	0.050	mg/kg	2.00		97.4	84.3-123	1.92	14.1	
Total Xylenes	5.94	0.150	mg/kg	6.00		99.0	89.1-124	2.08	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0500*		mg/kg	*0.0500*		*100*	*69.9-140*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2111019 - General Prep - Organics										
Blank (2111019-BLK1)				Prepared & Analyzed: 10-Nov-22						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*51.1*		mg/kg	*50.0*		*102*	*45.3-161*			
Surrogate: 1-Chlorooctadecane	*54.8*		mg/kg	*50.0*		*110*	*46.3-178*			
LCS (2111019-BS1)				Prepared & Analyzed: 10-Nov-22						
GRO C6-C10	228	10.0	mg/kg	200		114	76.8-124			
DRO >C10-C28	219	10.0	mg/kg	200		109	74.9-127			
Total TPH C6-C28	446	10.0	mg/kg	400		112	77.5-124			
Surrogate: 1-Chlorooctane	*56.5*		mg/kg	*50.0*		*113*	*45.3-161*			
Surrogate: 1-Chlorooctadecane	*64.3*		mg/kg	*50.0*		*129*	*46.3-178*			
LCS Dup (2111019-BSD1)				Prepared & Analyzed: 10-Nov-22						
GRO C6-C10	224	10.0	mg/kg	200		112	76.8-124	1.56	17.2	
DRO >C10-C28	217	10.0	mg/kg	200		108	74.9-127	0.907	18.6	
Total TPH C6-C28	441	10.0	mg/kg	400		110	77.5-124	1.24	17.6	
Surrogate: 1-Chlorooctane	*57.8*		mg/kg	*50.0*		*116*	*45.3-161*			
Surrogate: 1-Chlorooctadecane	*63.2*		mg/kg	*50.0*		*126*	*46.3-178*			
Batch 2111026 - General Prep - Organics										
Blank (2111026-BLK1)				Prepared: 10-Nov-22 Analyzed: 11-Nov-22						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*52.6*		mg/kg	*50.0*		*105*	*45.3-161*			
Surrogate: 1-Chlorooctadecane	*57.6*		mg/kg	*50.0*		*115*	*46.3-178*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2111026 - General Prep - Organics										
LCS (2111026-BS1)				Prepared: 10-Nov-22 Analyzed: 11-Nov-22						
GRO C6-C10	192	10.0	mg/kg	200		95.9	76.8-124			
DRO >C10-C28	181	10.0	mg/kg	200		90.7	74.9-127			
Total TPH C6-C28	373	10.0	mg/kg	400		93.3	77.5-124			
Surrogate: 1-Chlorooctane	*53.8*		mg/kg	*50.0*		*108*	*45.3-161*			
Surrogate: 1-Chlorooctadecane	*61.6*		mg/kg	*50.0*		*123*	*46.3-178*			
LCS Dup (2111026-BSD1)				Prepared: 10-Nov-22 Analyzed: 11-Nov-22						
GRO C6-C10	198	10.0	mg/kg	200		99.2	76.8-124	3.34	17.2	
DRO >C10-C28	191	10.0	mg/kg	200		95.4	74.9-127	5.04	18.6	
Total TPH C6-C28	389	10.0	mg/kg	400		97.3	77.5-124	4.17	17.6	
Surrogate: 1-Chlorooctane	*56.6*		mg/kg	*50.0*		*113*	*45.3-161*			
Surrogate: 1-Chlorooctadecane	*64.9*		mg/kg	*50.0*		*130*	*46.3-178*			
Batch 2111027 - General Prep - Organics										
Blank (2111027-BLK1)				Prepared & Analyzed: 11-Nov-22						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*55.8*		mg/kg	*50.0*		*112*	*45.3-161*			
Surrogate: 1-Chlorooctadecane	*63.5*		mg/kg	*50.0*		*127*	*46.3-178*			
LCS (2111027-BS1)				Prepared & Analyzed: 11-Nov-22						
GRO C6-C10	217	10.0	mg/kg	200		108	76.8-124			
DRO >C10-C28	211	10.0	mg/kg	200		106	74.9-127			
Total TPH C6-C28	428	10.0	mg/kg	400		107	77.5-124			
Surrogate: 1-Chlorooctane	*66.4*		mg/kg	*50.0*		*133*	*45.3-161*			
Surrogate: 1-Chlorooctadecane	*73.0*		mg/kg	*50.0*		*146*	*46.3-178*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2111027 - General Prep - Organics										
LCS Dup (2111027-BSD1)				Prepared & Analyzed: 11-Nov-22						
GRO C6-C10	212	10.0	mg/kg	200		106	76.8-124	2.21	17.2	
DRO >C10-C28	208	10.0	mg/kg	200		104	74.9-127	1.38	18.6	
Total TPH C6-C28	420	10.0	mg/kg	400		105	77.5-124	1.80	17.6	
Surrogate: 1-Chlorooctane	*65.7*		mg/kg	*50.0*		*131*	*45.3-161*			
Surrogate: 1-Chlorooctadecane	*71.2*		mg/kg	*50.0*		*142*	*46.3-178*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

TETRA TECH 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701	Project: SEABISCUIT FED. COM #002H FLC Project Number: 212C-MD-02722 Project Manager: CHRISTIAN LLULL Fax To: (432) 682-3946	Reported: 29-Nov-22 17:00

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B223261 - IC- Ion Chromatograph										
Blank (B223261-BLK1)				Prepared: 21-Nov-22 Analyzed: 28-Nov-22						
Chloride	ND	10.0	mg/kg wet							
LCS (B223261-BS1)				Prepared: 21-Nov-22 Analyzed: 28-Nov-22						
Chloride	246	10.0	mg/kg wet	250		98.5	85-115			
LCS Dup (B223261-BSD1)				Prepared: 21-Nov-22 Analyzed: 28-Nov-22						
Chloride	245	10.0	mg/kg wet	250		97.8	85-115	0.721	20	
Batch B223267 - IC- Ion Chromatograph										
Blank (B223267-BLK1)				Prepared & Analyzed: 22-Nov-22						
Chloride	ND	10.0	mg/kg wet							
LCS (B223267-BS1)				Prepared & Analyzed: 22-Nov-22						
Chloride	242	10.0	mg/kg wet	250		96.9	85-115			
LCS Dup (B223267-BSD1)				Prepared & Analyzed: 22-Nov-22						
Chloride	244	10.0	mg/kg wet	250		97.4	85-115	0.564	20	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name:	ConocoPhillips	**Site Manager:**	Christian Llull
Project Name:	Seabiscuit Fed Com #002H Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 565-0190
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02722
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Cardinal Labs	**Sampler Signature:**	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

H225334 LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2022 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	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
1	TR-1 (0'-1')	11/10	800		X				X			1	N	X		X												X						
2	TR-1 (2'-3')	11/10	810		X				X			1	N	X		X												X						
3	TR-1 (4'-5')	11/10	830		X				X			1	N	X		X												X						
4	TR-1 (6'-7')	11/10	850		X				X			1	N	X		X												X						
5	TR-2 (0'-1')	11/10	930		X				X			1	N	X		X												X						
6	TR-2 (2'-3')	11/10	940		X				X			1	N	X		X												X						
7	TR-2 (4'-5')	11/10	950		X				X			1	N	X		X												X						
8	TR-2 (6'-7')	11/10	1010		X				X			1	N	X		X												X						
9	TR-3 (0'-1')	11/10	1100		X				X			1	N	X		X												X						
10	TR-3 (2'-3')	11/10	1110		X				X			1	N	X		X												X						

	Relinquished by:	Date:	Time:	Received by:	Date:	Time:
1	Miguel A. Flores	11/10/22		Tamara Allen	11-10-22	1235
2						
3						

LAB USE ONLY

Sample Temperature
4.7°C
C-0.6°C
4.1°C
#113

REMARKS:

- [X] Standard
- [ ] RUSH: 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Tetra Tech, Inc.

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

Client Name:	ConocoPhillips	**Site Manager:**	Christian Llull
Project Name:	Seabiscuit Fed Com #002H Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 565-0190
Project Location: **(county, state)**	Lea County, New Mexico	**Project #:**	212C-MD-02722
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Cardinal Labs	**Sampler Signature:**	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

H225334 LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: 2022 DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD NONE		# CONTAINERS	FILTERED (Y/N)	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
11	TR-3 (4'-5')	11/10	1130		X				X			1	N	X		X												X						
12	TR-3 (6'-7')	11/10	1200		X				X			1	N	X		X												X						
13	TR-4 (0'-1')	11/9	1420		X				X			1	N	X		X												X						
14	TR-4 (2'-3')	11/9	1430		X				X			1	N	X		X												X						
15	TR-4 (4'-5')	11/9	1440		X				X			1	N	X		X												X						
16	TR-4 (6'-7')	11/9	1500		X				X			1	N	X		X												X						
17	TR-5 (0'-1')	11/9	1300		X				X			1	N	X		X												X						
18	TR-5 (2'-3')	11/9	1310		X				X			1	N	X		X												X						
19	TR-5 (4'-5')	11/9	1330		X				X			1	N	X		X												X						
20	TR-5 (6'-7')	11/9	1350		X				X			1	N	X		X												X						

	Date:	Time:		Date:	Time:
Relinquished by: Mark Flores	11/10/22		Received by: Tamara Oldaker	11-10-22	1235
Relinquished by:			Received by:		
Relinquished by:			Received by:		

LAB USE ONLY

Sample Temperature
4.7°C
C-0.6°C
4.1°C
#113C

REMARKS:

- [X] Standard
- [ ] RUSH: 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record

Page 40 of 40

Tetra Tech, Inc.

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

Client Name:	ConocoPhillips	**Site Manager:**	Christian Llull
Project Name:	Seabiscuit Fed Com #002H Release	**Contact Info:**	Email: christian.llull@tetratech.com Phone: (512) 565-0190
Project Location: (county, state)	Lea County, New Mexico	**Project #:**	212C-MD-02722
Invoice to:	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701		
Receiving Laboratory:	Cardinal Labs	**Sampler Signature:**	Miguel A. Flores
Comments:			

ANALYSIS REQUEST
(Circle or Specify Method No.)

#225334 LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	# CONTAINERS	FILTERED (Y/N)	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
21	TR-6 (0'-2')	11/9	1000									X		X												X						
22	TR-6 (2'-3')	11/9	1020									X		X												X						
23	TR-7 (0'-2')	11/9	1040									X		X												X						
24	TR-7 (2'-4')	11/9	1100									X		X												X						
25	TR-8 (0'-2')	11/9	1120									X		X												X						
26	TR-8 (2'-4')	11/9	1140									X		X												X						
27	TR-9 (0'-1')	11/9	1200									X		X												X						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Mark Ian	11/10/22		Tamara Oldaker	11-10-22	1235
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ORIGINAL COPY

LAB USE ONLY

Sample Temperature
4.7°C
C-0.6°C
4.1°C #113C

REMARKS:

- [X] Standard
- [ ] RUSH: 72 hr.
- [ ] Rush Charges Authorized
- [ ] Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

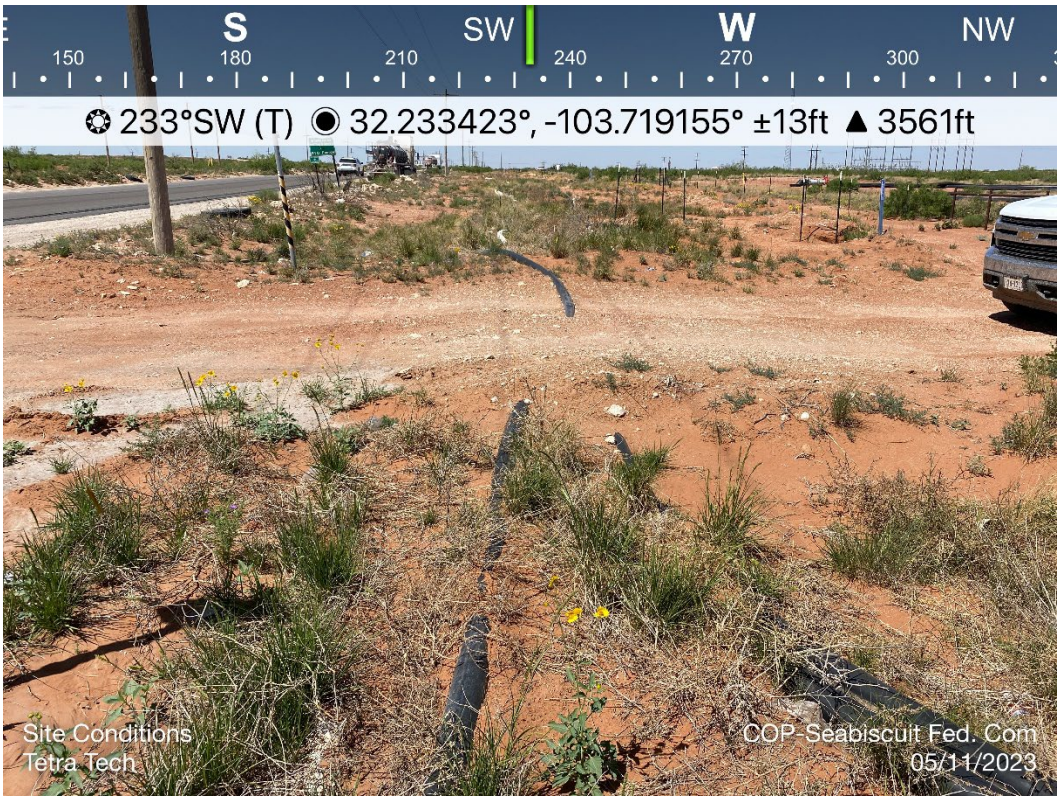
APPENDIX E
Photographic Documentation

TETRA TECH, INC. PROJECT NO. 212C-MD-02722	DESCRIPTION	View northeast from southwest end of release area. Staining and surface polylines	1
	SITE NAME	ConocoPhillips Seabiscuit Release	7/22/2020

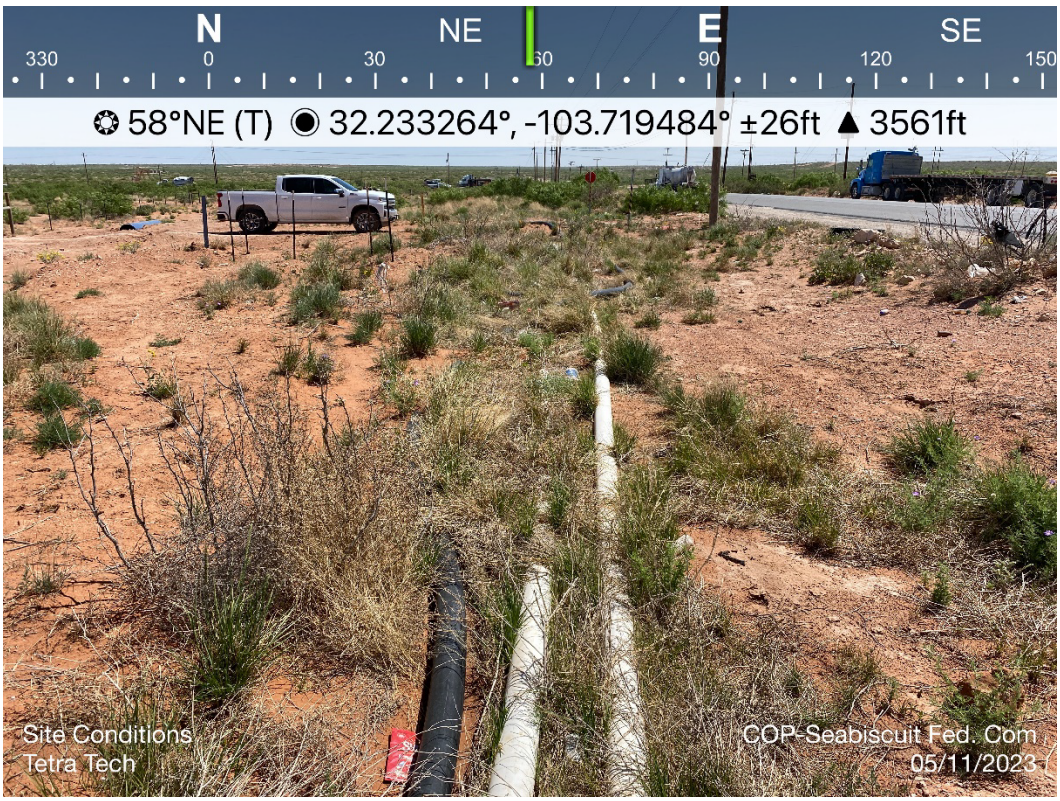
TETRA TECH, INC. PROJECT NO. 212C-MD-02722	DESCRIPTION	View southwest from northeast end of release area. Surface staining and subsurface Mesquite line.	2
	SITE NAME	ConocoPhillips Seabiscuit Release	7/22/2020

TETRA TECH, INC. PROJECT NO. 212C-MD-02722	DESCRIPTION	View west from northeast end of release area. Surface staining and fence line.	3
	SITE NAME	ConocoPhillips Seabiscuit Release	7/22/2020

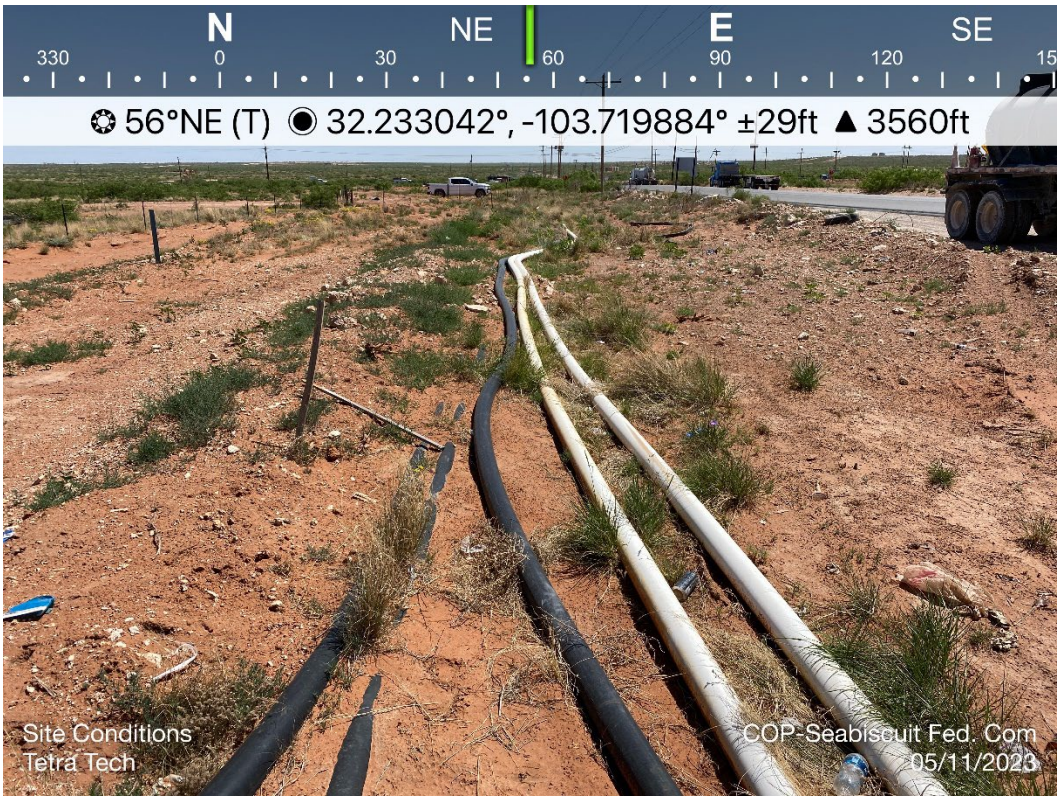
TETRA TECH, INC. PROJECT NO. 212C-MD-02722	DESCRIPTION	View northeast. Central release area. Surface staining and subsurface Mesquite line.	4
	SITE NAME	ConocoPhillips Sea Biscuit Federal Com #2H FL Release	7/22/2020



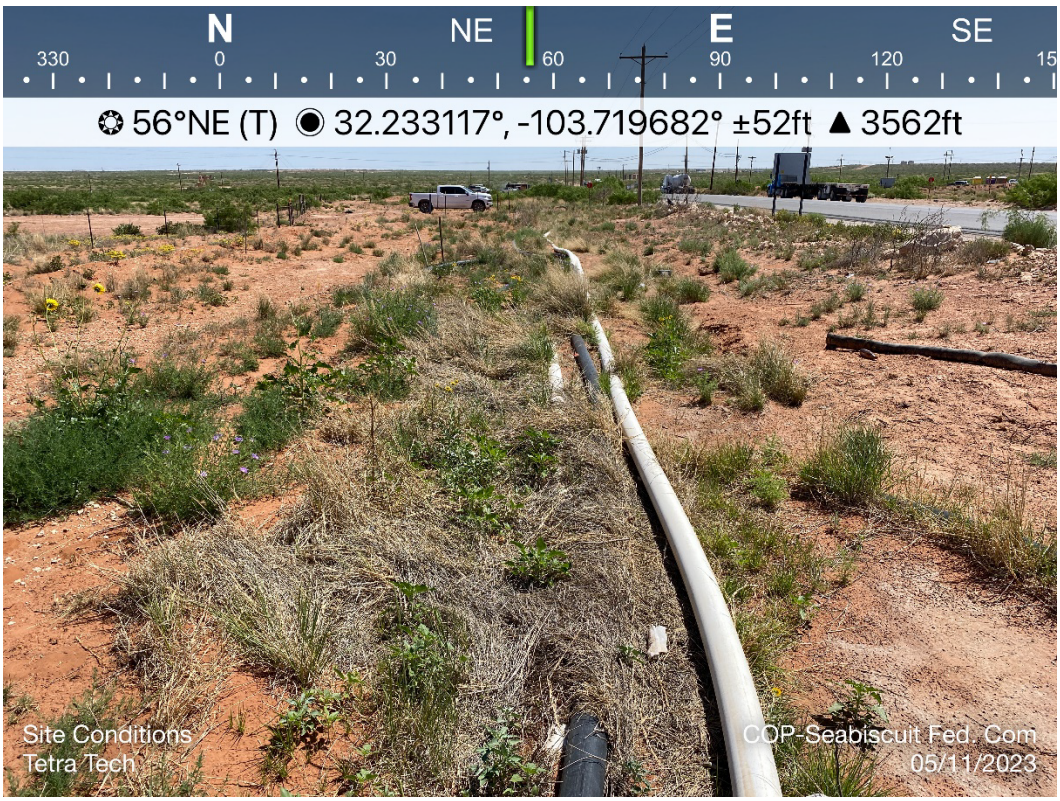
TETRA TECH, INC. PROJECT NO. 212C-MD-02722	DESCRIPTION	View southwest from northeast end of release area. Vegetation and surface polylines	5
	SITE NAME	ConocoPhillips Sea Biscuit Federal Com #2H FL Release	5/11/2023



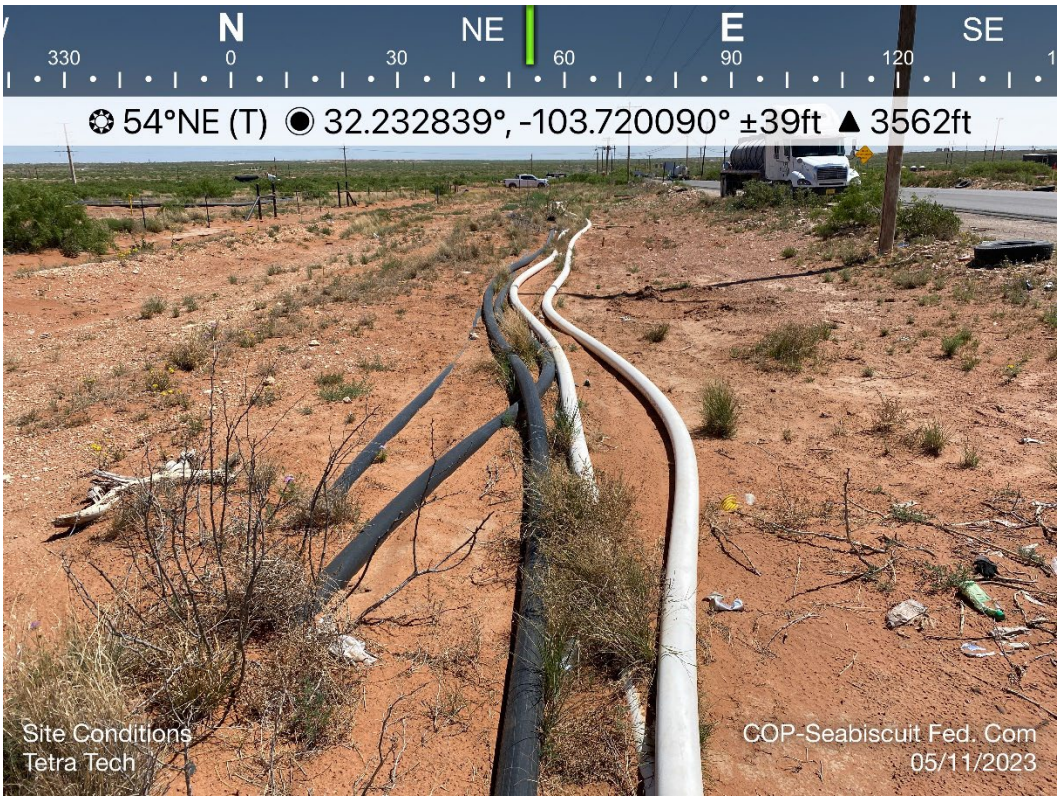
TETRA TECH, INC. PROJECT NO. 212C-MD-02722	DESCRIPTION	View northeast of northeast end of release area. Vegetation and surface polylines	6
	SITE NAME	ConocoPhillips Sea Biscuit Federal Com #2H FL Release	5/11/2023



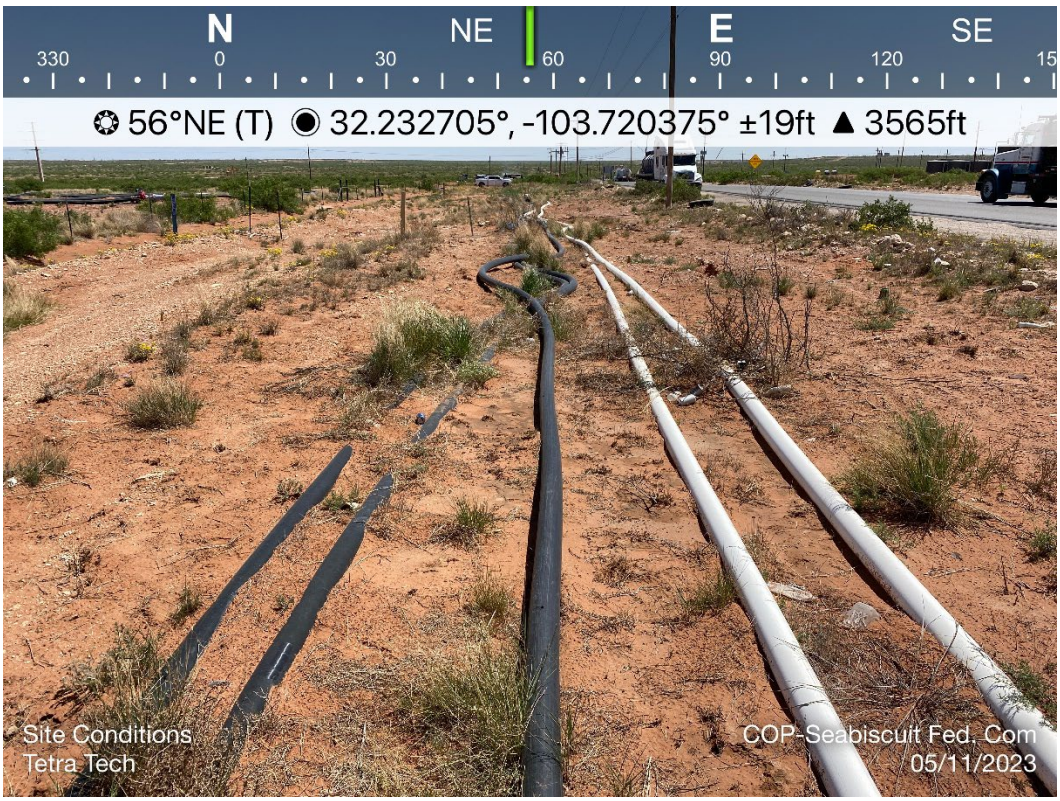
TETRA TECH, INC. PROJECT NO. 212C-MD-02722	DESCRIPTION	View northeast of central release area. Vegetation, surface polylines, and subsurface DCP gas line.	7
	SITE NAME	ConocoPhillips Sea Biscuit Federal Com #2H FL Release	5/11/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02722	DESCRIPTION	View northeast of central release area. Vegetation, surface polylines, and subsurface DCP gas line.	8
	SITE NAME	ConocoPhillips Sea Biscuit Federal Com #2H FL Release	5/11/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02722	DESCRIPTION	View northeast of central release area. Vegetation, surface polylines, and subsurface DCP gas line.	9
	SITE NAME	ConocoPhillips Sea Biscuit Federal Com #2H FL Release	5/11/2023



TETRA TECH, INC. PROJECT NO. 212C-MD-02722	DESCRIPTION	View northeast of central release area. Vegetation, surface polylines, and subsurface DCP gas line.	10
	SITE NAME	ConocoPhillips Sea Biscuit Federal Com #2H FL Release	5/11/2023

APPENDIX F
GCL Technical Data Sheet

SOLMAX

Technical data sheet

Bentoliner Series, 0.75 lbs/ft² , NS

PROPERTY	TEST METHOD	FREQUENCY(1)	UNIT Imperial	1101129
SPECIFICATIONS				
GEOTEXTILE PROPERTY		-		
Cap Description	-			Nonwoven
Cap Mass/Unit area	ASTM D5261	1/200,000 ft²	oz/yd²	6
Carrier Description	-			Woven
Carrier Mass/Unit area	ASTM D5261	1/200,000 ft²	oz/yd²	3.1
BENTONITE PROPERTY		-		
Swell Index (min.)	ASTM D5890	1 / 100,000 lb	ml/2 g	24
Moisture Content (max.)	ASTM D4643	1 / 100,000 lb	%	12
Fluid Loss (max.)	ASTM D5891	1 / 100,000 lb	ml	18
FINISHED GCL PROPERTY		-		
Bentonite Mass (0% moisture)	ASTM D5993	1/40,000 ft²	lbs/ft²	0.75
Tensile Strength MD (min. avg.)	ASTM D6768	1/40,000 ft²	lbf/in	30
Peel Strength (min.avg.)	ASTM D6496	1/40,000 ft²	lbf/in	3.5
Peel Strength (min.avg.)	ASTM D4632	1/40,000 ft²	lbf	21
Hydraulic Conductivity (max.)	ASTM D5887	1/week	cm/s	$5x10^{-9}$
Index Flux	ASTM D5887	1/week	$m^3/m^2/sec$	$1x10^{-8}$
Effective Confining Stress (max.)			lbs/in²	5
Internal Shear Strength	ASTM D6243	Periodically	lbs/ft²	500
Normal Stress			lbs/ft²	200
SUPPLY SPECIFICATIONS(Roll dimensions may vary ±1%)				
Roll Dimension - Width	-		ft	15.5
Roll Dimension - Length	-		ft	150
Area (Surface/Roll)	-		ft²	2325

NOTES

* The information contained herein is provided for reference purposes only and is not intended as a warranty of guarantee. Final determination of suitability for use contemplated is the sole responsibility of the user. SOLMAX assumes no liability in connection with the use of this information.

Solmax is not a design professional and has not performed any design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation or specification.

SOLMAX.COM

Revision date: 04-Mar-2019

APPENDIX G
Seed Mixture Details

BLM Serial #:

Company Reference:

3.2 Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	lb/acre
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

*Pounds of pure live seed: Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

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https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 392018

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 392018
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nRM2013962666**
Incident Name	**NRM2013962666 SEABISCUIT FEDERAL COM 002H @ 30-015-37607**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Plan Received**
Incident Well	**[30-015-37607] SEABISCUIT FEDERAL COM #002H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SEABISCUIT FEDERAL COM 002H
Date Release Discovered	05/02/2020
Surface Owner	Federal

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	*Not answered.*
Produced Water Released (bbls) Details	Cause: Other | Flow Line - Production | Produced Water | Released: 100 BBL | Recovered: 0 BBL | Lost: 100 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.*

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 392018
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

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: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 10/11/2024

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QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 392018
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 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	No

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)	27100
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	2670
GRO+DRO	(EPA SW-846 Method 8015M)	2410
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
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		02/11/2025
On what date will (or did) the final sampling or liner inspection occur		03/01/2025
On what date will (or was) the remediation complete(d)		03/05/2025
What is the estimated surface area (in square feet) that will be reclaimed		12354
What is the estimated volume (in cubic yards) that will be reclaimed		2055
What is the estimated surface area (in square feet) that will be remediated		12354
What is the estimated volume (in cubic yards) that will be remediated		2055
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 (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 392018
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
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: Christian LLuLL Title: Project Manager Email: christian.llull@tetratech.com Date: 10/11/2024
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 (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 392018
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator:	OGRID:
COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	229137
	Action Number: 392018
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	*{Unavailable.}*

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 392018

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 392018
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation proposal approved with the following conditions:	11/27/2024
scwells	1) OCD notes that a remediation plan was due by 5/13/24. No extension was requested. This report was submitted 10/11/24. A remediation closure report will be due February 25, 2025. Failure to submit a complete remediation closure report by February 25, 2025, may result in compliance and enforcement penalties pursuant to 19.15.5 NMAC.	11/27/2024
scwells	2) Figure 5B shows TR-4 located beside BH-2, not TR-6, as stated on pg. 6 of report. In addition, TR-6 is missing from the Figures. Email OCD corrected Figures as soon as corrections are made.	11/27/2024
scwells	3) Vertical delineation has not been completed for TR-1, TR-2, TR-3, and TR-5. COP should delineate these along with any other areas that have not been vertically delineated during remediation. The excavation should proceed until RRAL's are below Table 1 51-100 feet groundwater standards.	11/27/2024
scwells	4) At this time, installing a liner is not approved. Should you meet rock refusal, immediately consult OCD to establish a path forward.	11/27/2024
scwells	5) OCD will not approve a set number of samples as the size of the remediation excavation will dictate the number of confirmation samples that must be collected, and site conditions may change during remediation activities. Confirmation/final samples must be collected from the base and sidewalls of the excavations. Confirmation/final samples must be 5-point composite samples representative of no more than 400 square feet from the base and no more than 200 square feet from the sidewalls of the excavation. Samples must be tested for all Table 1 constituents.	11/27/2024
scwells	6) Prior to commencement of activities near the DCP line, COP needs to get a signed document from DCP stating they will take responsibility and liability for the contamination within their established setbacks. OCD will assign an incident number to DCP for the remaining contaminants.	11/27/2024
scwells	7) COP will need to proceed in the same manner with Centurion should the excavation reach their established setbacks.	11/27/2024