

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	NRM2023331895
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Whiptail Midstream LLC	OGRID 373240
Contact Name: Ernest Johnson	Contact Telephone 918.289.2147
Contact email: ernie.johnson@whiptailmidstream.com	Incident # (assigned by OCD)
Contact mailing address 15 W. 6 th Street, Suite 2901, Tulsa, OK 74119	

Location of Release Source

Latitude 36.2550621° _____ Longitude -107.6777573° _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Chaco 2308 3L 405H	Site Type: Transfer Location
Date Release Discovered: 8/17/2020	API# N/A

Unit Letter	Section	Township	Range	County
L	3	23N	8W	San Juan

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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 80 bbls	Volume Recovered (bbls) 35- 40 bbls
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 100 bbls	Volume Recovered (bbls) 35 - 40 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

State of New Mexico
Oil Conservation Division

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Cause of Release	
<p>Whiptail discovered a release of crude oil/produced water originating from a produced water pipe on August 17, 2020 near the Enduring Resources Chaco 2308 3L 405H well site, located in Section 4, T23N, R8W in San Juan County, NM. The volume of crude oil/ produced water mix was released is estimated at 200 bbls at this time, of which approximately 70-100 bbls were released outside of a lined containment. Whiptail recovered approximately 70 - 80 bbls of standing liquids via vac truck. The release went off-pad to the east approximately 360 feet down a first order tributary to Kimbeto Wash and another 410 feet down Kimbeto Wash and approximately 140 feet off-pad to the southwest. A third party contractor has been retained to oversee remediation of the release.</p>	
<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p> <p>An unauthorized release greater than 25 bbls.</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p> <p>Originally reported to NMOCD and BLM by Enduring on 8/17/20. Verbal notification was provided to the NMOCD (Cory Smith) by Whiptail (Ernie Johnson) and BLM (Emmanuel Abiodun Adeloye) by LT Environmental on Whiptail's behalf (Brooke Herb) on 8/18/20, within 24 hours of discovering the release.</p>	

Initial Response

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

<p><input checked="" type="checkbox"/> The source of the release has been stopped.</p> <p><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.</p> <p><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.</p> <p><input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.</p>
<p>If all the actions described above have <u>not</u> been undertaken, explain why:</p>
<p>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.</p>

State of New Mexico
Oil Conservation Division

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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: Ernest Johnson Title: Director of Risk and Engineering Services

Signature:  Date: 8/19/20

email: ernie.johnson@whiptailmidstream.com Telephone: 918.289.2147

OCD Only

Received by: Ramona Marcus Date: 8/20/2020

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	__(ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 1/2-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.

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Printed Name: Ernest Johnson Title: Director of Risk and Engineering Services

Signature:  Date: 11/13/2020

email: ernie.johnson@whiptailmidstream.com Telephone: 918.289.2147

OCD Only

Received by: _____ Date: _____

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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: Ernest Johnson Title: Director of Risk and Engineering Services
 Signature:  Date: 11/13/2020
 email: ernie.johnson@whiptailmidstream.com Telephone: 918.289.2147

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 03/28/2022



SITE CHARACTERIZATION REPORT AND REMEDIATION WORK PLAN

CHACO 2308 03L #404H

WHIPTAIL MIDSTREAM AND ENDURING
RESOURCES IV, LLC

PROJECT NO.: TE077920009
NMOCD INCIDENT NO.: NRM2023331895
DATE: NOVEMBER 13, 2020

WSP
848 EAST 2ND AVENUE
DURANGO, COLORADO

T: +1 (970) 385-1096

WSP.COM

NOVEMBER 13, 2020

CONFIDENTIAL

SIGNATURES

PREPARED BY



Stuart Hyde, L.G.
Environmental Geologist

APPROVED¹ BY *(must be reviewed for technical accuracy prior to approval)*



Steve Kahn, P.E.
Managing Director

¹ Approval of this document is an administrative function indicating readiness for release and does not impart legal liability on to the Approver for any technical content contained herein. Technical accuracy and fit-for-purpose of this content is obtained through the review process. The Approver shall ensure the applicable review process has occurred prior to signing the document.



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1 BACKGROUND

1.1 SITE BACKGROUND

WSP, on behalf of Whiptail Midstream (Whiptail) and Enduring Resources IV, LLC (Enduring), has prepared this report detailing remediation activities to date and to propose a remediation work plan to address remaining impacts to soil at the Chaco 2308 03L 404H and 405H production well site (Site). The Site is located in Unit L, Section 3, Township 23 North, Range 8 West in San Juan County, New Mexico (Figure 1). The Site consists of two oil-production wells (Chaco 2308 03L #404H and Chaco 2308 03L #405H) owned by Enduring and associated equipment within a lined secondary containment (including several aboveground storage tanks, pumps, separators, and other equipment). The well pad is located on land owned by the United States Bureau of Land Management (BLM).

A release of crude oil and produced water was first discovered at the Site on August 17, 2020. The fluids were observed seeping through the liner and into the secondary containment, as well as on the ground surface to the southwest, south, and southeast sides of the lined secondary containment. Several pipelines for the transfer of produced water and crude oil are located underneath the liner of the secondary containment. Enduring shut in both oil wells and the pipelines at the Site and was able to control the release. Enduring subcontracted vacuum trucks to capture standing fluids, with approximately 80 barrels (bbls) recovered and transported for off-site disposal. Based on pressure tests performed by Enduring and Whiptail, it appears that the release of crude oil/produced water originated from piping that belonged to Whiptail underneath the liner. Whiptail provided verbal or email notifications to the BLM and New Mexico Oil Conservation Division (NMOCD) on August 17, 2020. Whiptail reported the release to the NMOCD on a *Release Notification and Corrective Action Form C-141* (Form C-141) on August 19, 2020 and was subsequently assigned Incident Number NRM2023331895. Whiptail estimated approximately 180 barrels (bbls) of crude oil/ produced water mix was released, of which 70 to 80 bbls were released outside of a lined containment.

During a site visit on August 18, 2020, during emergency response activities, WSP observed standing fluid along with saturated and stained soil within and around the secondary containment (see attached Photographs 1, 2, and 3). The release flowed away from the secondary containment to the west but remained on pad. It was observed south of the containment around equipment and following several drainages leading off pad. South of the pad, it spread into a vegetated area. The vegetation had not yet exhibited signs of stress, but saturated and stained soil were observed. To the east, the release flowed into a dry wash and flowed south approximately 850 feet into Kimbeto Wash.

1.2 SITE RECEPTORS

Assessment of potential nearby receptors was conducted through desktop reviews of topographic maps, Federal Emergency Management Administration (FEMA) Geographic Information System (GIS) maps, United States Geological Survey (USGS) GIS maps, New Mexico Office of the State Engineer database, and aerial photographs, as well as site-specific observations.

Based on United States Geological Survey (USGS) geologic mapping, the Site is located within the Tertiary Nacimiento Formation. In the report titled *Hydrogeology and Water Resources of San Juan Basin, New Mexico* (Stone, et. al., 1983), the Nacimiento Formation as characterized by interbedded black carbonaceous mudstones and white, coarse-grained sandstones. This formation ranges in thickness from 418 to 2,232 feet. The Nacimiento Formation overlies the Ojo Alamo sandstone formation, which is the shallowest water-bearing unit beneath the Site (Stone, Lyford, Frenzel, Mizell, & Padgett, 1983).

Borings at the Site indicate that groundwater is not present at depths up to 15 feet below ground surface (bgs). The closest water well to the Site is SJ-04195, located approximately 1.64 miles southeast of the Site (Figure 2), with a depth to groundwater reported at 290 feet bgs. No wellhead protection areas, springs, or domestic/stock wells are located within a half mile from the site (Figure 2). The nearest significant watercourse to the Site is a tributary to Kimbeto Wash, located approximately 90 feet to the east (Figures 2 and 3). The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any wetland (Figure 3).

Surface land use surrounding the Site consists primarily of oil and gas development and potential livestock grazing. No occupied permanent residence or structures, including schools, hospitals, institutions, and/or churches, are located within 300 feet of the Site. The Site is not within the area of a subsurface mine or unstable area and is not within the 100-year floodplain.

1.3 REGULATORY CLOSURE CRITERIA

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of 19.15.29.12 of the New Mexico Administrative Code (NMAC). Due to the Site's proximity to a significant watercourse (adjacent wash), the following NMOCD Table 1 closure criteria apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 100 mg/kg total petroleum hydrocarbons (TPH); and 600 mg/kg chloride.

Whiptail proposed a variance to the confirmation-sampling frequency of 200 square feet presented in Subsection D of 19.15.29.12 NMAC. Based on the large size of the impacted area, NMOCD approved a variance to collect excavation-confirmation samples at a frequency of every 400 square feet from the excavation floors and sidewalls. The NMOCD approval is attached as Appendix A.

2 SITE ACTIVITIES AND FINDINGS

2.1 INITIAL RESPONSE AND SOIL EXCAVATION

After the initial release discovery, Enduring/Whiptail subcontracted vacuum trucks to capture standing fluids at the Site. Approximately 80 bbls were recovered on August 17, 2020 and transported for disposal. To visually inspect for surface impacts at the Site, drone aerial photographs were captured by Enduring on August 18, 2020. The aerial photographs were used to initially delineate the surface impacts and guide initial excavation efforts. WSP mapped the release footprint using a handheld Global Positioning System (GPS) unit (able to achieve a horizontal accuracy of 1.5 feet) and estimated the release footprint to encompass approximately 42,000 square feet based on the presence of fluid and stained soil.

Prior to beginning work, an archaeological survey was performed by Western Cultural Resource Management, Inc. (WCRM). The survey results indicated no cultural materials were encountered and excavation activities could commence (survey results are included as Appendix B). Dirt-moving equipment was mobilized to the Site on August 19, 2020 to begin excavation of impacted soil located off the well pad. The off-pad areas impacted by the release, and subsequent excavations, have been named the “Southwest (SW) Area” and the “Wash Area” (indicated on Figure 4). A majority of on-pad impacted soil was inaccessible due to the location of equipment and aboveground storage tanks.

2.1.1 WASH AREA REMEDIAL EXCAVATION

Impacted soil was first removed from the tributary wash and Kimbeto Wash located east and south of the well pad. As the excavation progressed, WSP collected field-screening soil samples from the excavation floors and sidewalls using a photoionization detector (PID) and Hach® chloride QuanTab® test strips. Based on field screening, the Wash Area excavation was advanced to a maximum depth of 4 feet bgs. Once field-screening results indicated that impacted soils had been removed, notice was given to the NMOCD and BLM to collect confirmation floor and sidewall samples from the Wash Area excavation. Confirmation samples were collected by WSP on August 31, 2020 and consisted of five-point composite samples collected every 400 square feet from the excavation floor and sidewalls. Photograph 4 was taken from the Wash Area excavation inside the tributary wash.

The samples were handled and transported at or below 4 degrees Celsius (°C) under chain-of-custody procedures to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico for analysis of BTEX (benzene, toluene, ethylbenzene, and xylene compounds) by United States Environmental Protection Agency (EPA) method 8021, TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), TPH-motor oil range organics (MRO) by EPA Method 8015, and chloride by EPA method 300.0. Sampling areas for the Wash Area excavation are presented on Figure 5.

Based on the laboratory analytical data, all confirmation sample results were either non-detect or below the NMOCD Table 1 Closure Criteria with the exception of two sidewall samples (“Wash SW08” and “Wash SW10”). Additional soil was removed from these areas and confirmation samples were collected on September 3, 2020 to confirm the successful removal of impacted soil. Results from samples “Wash SW08-B” and “Wash SW10-B” were in compliance with Table 1 Closure Criteria. Based on the confirmation-sample results collected from the Wash Area, all impacted soil was successfully removed to below Table 1 Closure Criteria. In total, 17 floor and 17 sidewall samples were collected from the Wash Area excavation. Analytical results are summarized in Table 1. Laboratory analytical results are included in Appendix C.

2.1.2 SOUTHWEST AREA REMEDIAL EXCAVATION

Once the Wash excavation was completed, impacted soil was removed from the Southwest Area. WSP collected field-screening soil samples as described above from the Southwest Area excavation floors and sidewalls to assess

the progress of the excavation. Based on field screening, the Southwest Area excavation was advanced to a maximum depth of 6 feet bgs. Once field-screening results indicated that impacted soils had been removed, notice was again given to the NMOCD and BLM to collect confirmation floor and sidewall samples. Confirmation samples were collected by WSP on September 3, 2020 and consisted of five-point composite samples collected every 400 square feet from the excavation floor and sidewalls. Soil samples were collected in the same manner described in Section 2.1.1 above. Samples were submitted to Hall for analysis of BTEX, TPH-GRO, TPH-DRO, TPH-MRO, and chloride. Sampling areas for the Southwest Area excavation are presented on Figure 6.

Based on the analytical data, all confirmation sample results were either non-detect or below the NMOCD Table 1 Closure Criteria, with the exception of three sidewall samples (“SW Area SW01”, “SW Area SW03”, and SW Area SW04”). Because a soil stockpile was located just to the north of this area, additional soil could not be immediately removed (shown on Photograph 5). Based on the soil-sample results collected from the Southwest Area, the majority of the impacted soil was successfully removed to below Table 1 Closure Criteria. However, the three sidewall samples exceeding the chloride Table 1 Closure Criteria were all located along the northern sidewall of the excavation and ranged in concentration from 630 to 1,000 mg/kg. In total, 14 floor and nine (9) sidewall samples were collected from the Southwest Area excavation. Analytical results are summarized in Table 2. Laboratory analytical results are included in Appendix C.

2.2 SOIL DELINEATION ACTIVITIES

To vertically and laterally delineate soil impacts remaining on the well pad, WSP returned to the Site on October 19 and 20, 2020 and used a hollow-stem auger drill rig and to advance 11 borings to depths of 15 feet bgs. In areas inaccessible to the drill rig, WSP advanced three (3) hand-auger borings until refusal was encountered. Borings were positioned to supplement existing information and soil data previously collected at the Site. Several soil borings were advanced in locations near the points of release and/or locations with obvious soil staining to vertically delineate soil impacts on the well pad. Additional borings were positioned in locations outside of obvious impacts to laterally delineate the release. Boring locations are presented on Figure 7.

Continuous soil samples were collected and logged by an WSP geologist and described using the Unified Soil Classification System (USCS). Soil was inspected for visual staining and the presence or absence of odor. The soil headspace was field screened at 2.5-foot intervals using a PID to monitor for the presence of organic vapors. In addition, Hach® Quantab® titrator strips were utilized to field screen for chloride in the soil at 2.5-foot intervals. Soil samples were collected from the most impacted soil interval based on field-screening results and from the terminus of each boring. Soil samples were collected directly into pre-cleaned jars. The samples were handled and transported under chain-of-custody procedures to Hall and analyzed for BTEX, TPH-GRO, TPH-DRO, TPH-MRO, and chloride. Drilling and sampling equipment were decontaminated prior to each use. Boring logs are included as Appendix D.

2.2.1 SOIL BORING RESULTS

Based on the laboratory analytical data, the majority of impacted soil remaining at the Site is located within the secondary containment. Surface-soil impacts extend to the east, south, and west of the containment; however, these impacts are estimated to be limited to the top 2 to 4 feet of soil and do not extend beyond the obvious surface staining (as indicated by data from the outer-most borings). TPH and chloride concentrations above NMOCD Table 1 Closure Criteria within the secondary containment extend to depths of at least 9 feet bgs. Because of access restrictions, WSP boring BH12 and a boring advanced by Enduring/Envirotech, Inc. (SB-5, drilled in September 2020) were located near the points of release using a hand auger. Because of the shallow bedrock at the site, the hand-auger borings were unable to achieve greater depths.

Analytical results from the WSP delineation effort, as well as data collected by Enduring/Envirotech, Inc., are summarized in Table 3. Analytical data from these events are also presented on Figure 7.

3 PROPOSED REMEDIATION WORK PLAN

3.1 PREVIOUS SITE ACTIVITIES

As described in Sections 2.1 and 2.2, Whiptail conducted emergency remedial excavations in the impacted areas located off of the well pad. Whiptail was able to remove a majority of the off-pad impacted soils. Only a limited volume of chloride-impacted soil remains in the Southwest Area along the north sidewall of the previous excavation. In total, approximately 875 cubic yards of soil was removed from the Wash Area excavation and 1,200 cubic yards of soil was removed from the Southwest Area excavation. In addition, soil-delineation activities have confirmed that soil impacts have not migrated beyond the obvious surface staining present at the Site (Photograph 6 presents an example of chloride staining remaining at the Site). As such, the lateral extent of impacted soil has been delineated.

3.2 PROPOSED WORK PLAN

Based on the remedial excavation and delineation results described in this report, WSP proposes continued excavation of impacted soil at the Site. Excavation has proven to be effective in removing the TPH and chloride-impacted soil. Figure 8 presents the approximate vertical and lateral excavation extents required to remove remaining impacted soil. Based on this interpretation, the remaining release footprint measures approximately 17,000 square feet, requiring approximately 2,000 cubic yards of soil to be excavated and disposed off-site. The excavation will address on-pad soil impacts, as well as the chloride-impacted soil remaining along the north sidewall of the Southwest Area excavation. WSP will continue to field screen as excavation proceeds to determine the final required extent.

3.2.1 PROPOSED SAMPLING

Once field-screening results indicate that impacted soils have been removed, notice will be given to the NMOCD and BLM at least two days before collecting confirmation floor and sidewall samples from the excavation. Due to the large size of the affected area, WSP proposes increasing the confirmation-sampling frequency to collecting one 5-point composite sample for each 400 square-foot area from the excavation sidewalls and floor (as previously approved by the NMOCD for the Wash and Southwest Area excavations). The 5-point composite samples will be collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag, and homogenizing the samples by thoroughly mixing. The samples will be put into pre-cleaned jars and transported under chain-of-custody procedures to Hall for analysis of BTEX, TPH-GRO, TPH-DRO, TPH-MRO, and chloride.

Following the successful removal of impacted soil, the site will be backfilled and off-pad locations will be reclaimed in accordance with 19.15.29.13 NMAC.

3.2.2 REMEDIATION SCHEDULE

Whiptail and Enduring are motivated to finish remediating impacted soils at the Site prior to winter and potentially adverse conditions. As such, the equipment and aboveground storage tanks located at the Site are currently being removed to access remaining impacted soil. Excavation will begin once access is obtained, likely by the end of November 2020. Remediation is anticipated to be completed within 90 days of this document submittal.

4 REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). *Hydrogeology and Water Resources of San Juan Basin, New Mexico*. New Mexico Bureau of Mines & Mineral Resources.

FIGURES

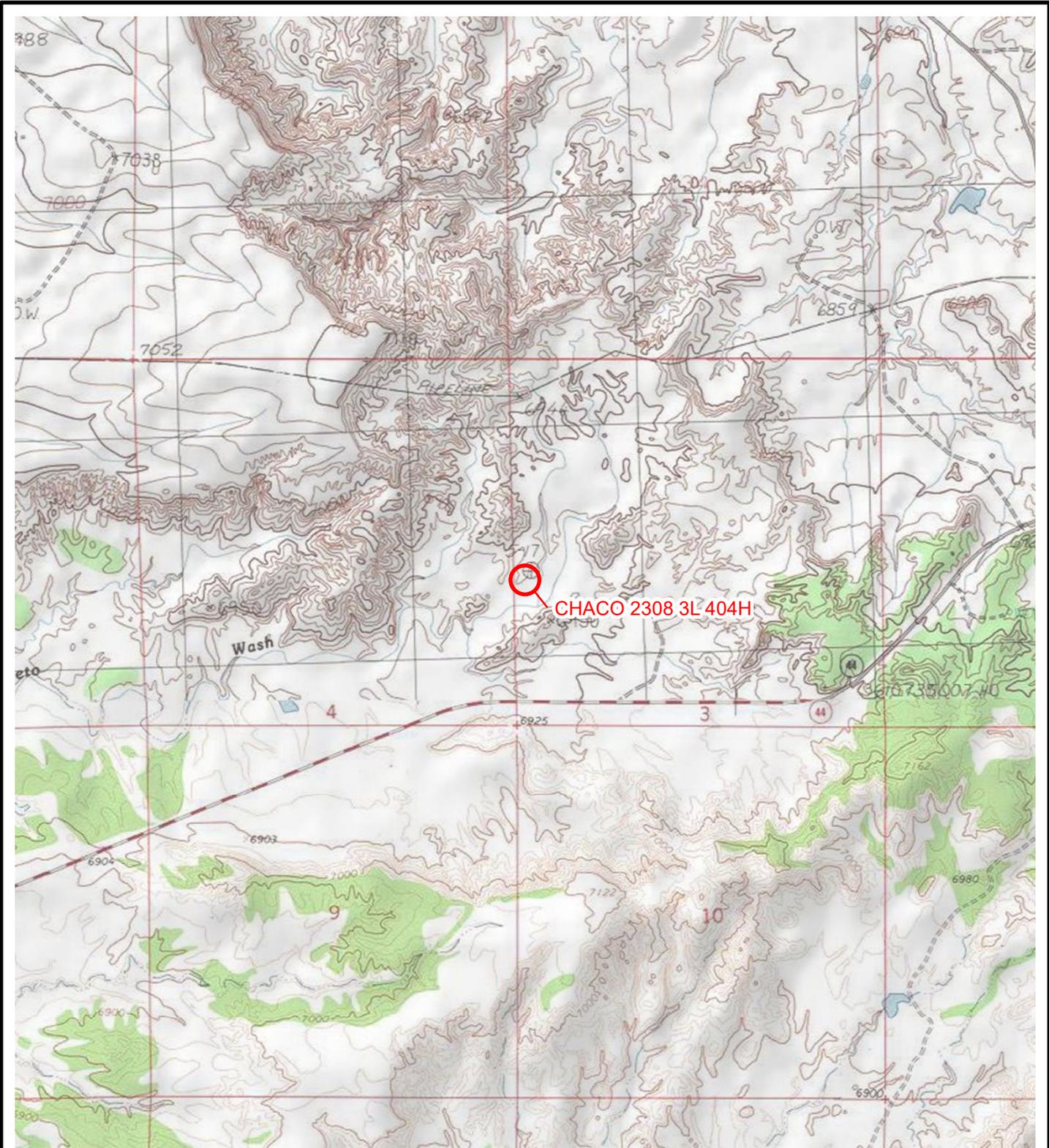
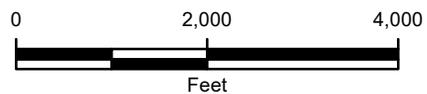


IMAGE COURTESY OF ESRI/USGS

LEGEND

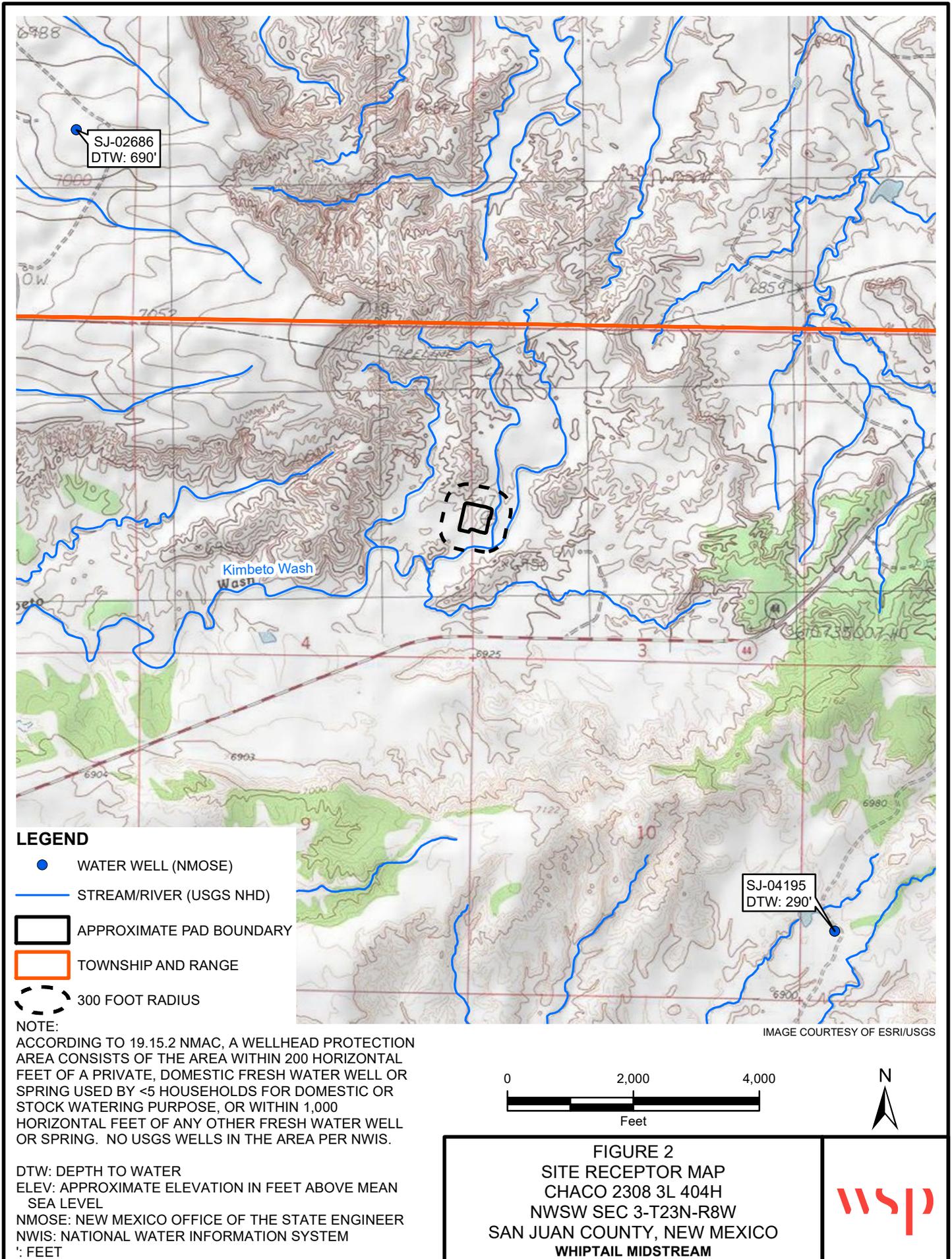
 SITE LOCATION

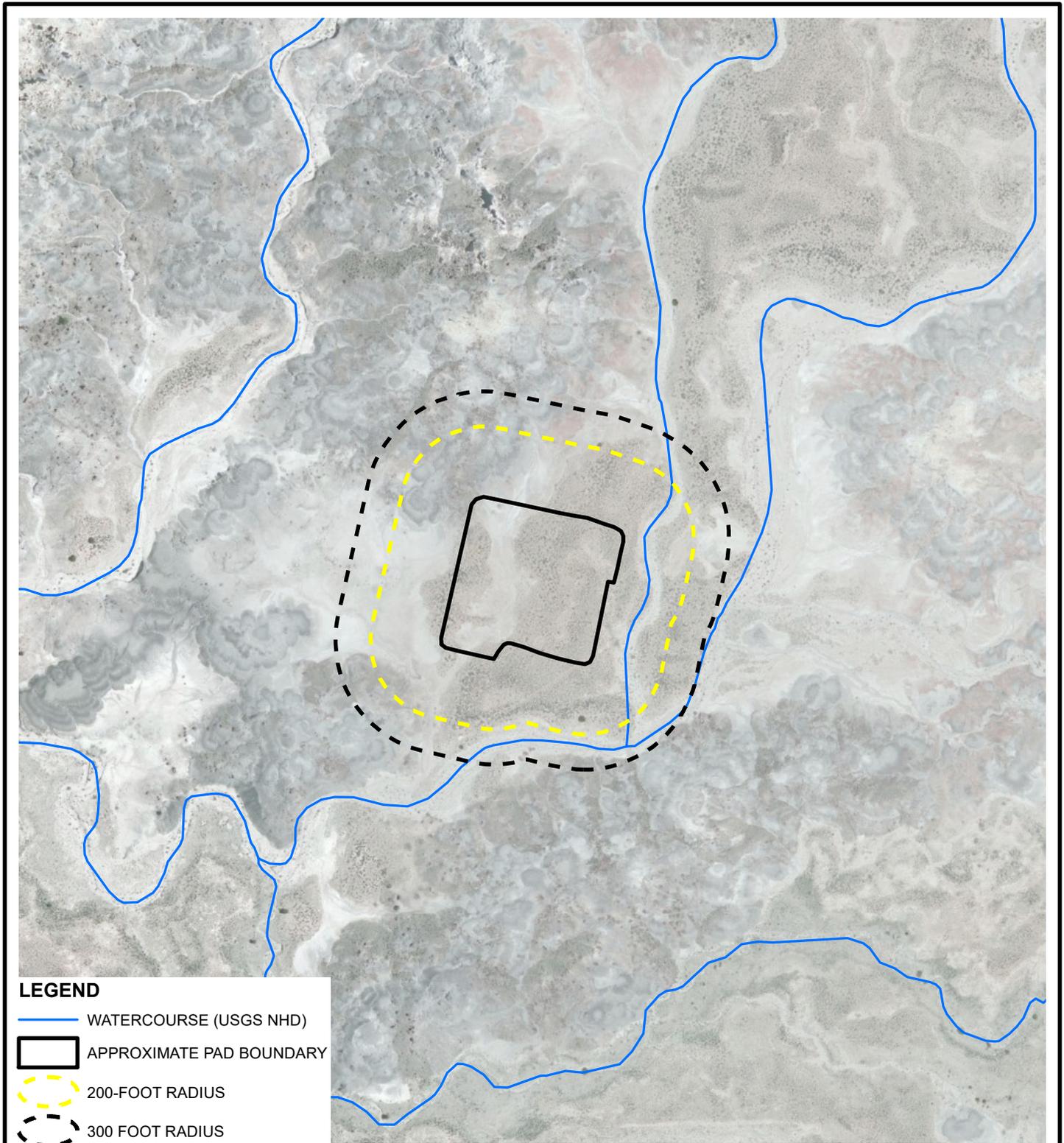


NEW MEXICO

FIGURE 1
 SITE LOCATION MAP
 CHACO 2308 3L 404H
 NWSW SEC 3-T23N-R8W
 SAN JUAN COUNTY, NEW MEXICO
 WHIPTAIL MIDSTREAM







LEGEND

-  WATERCOURSE (USGS NHD)
-  APPROXIMATE PAD BOUNDARY
-  200-FOOT RADIUS
-  300 FOOT RADIUS

NOTE:
 ACCORDING TO 19.15.2 NMAC A WATERCOURSE MEANS A RIVER, CREEK, ARROYO, CANYON, DRAW, OR WASH OR OTHER CHANNEL HAVING DEFINITE BANKS AND BED WITH VISIBLE EVIDENCE OF OCCASIONAL FLOW OF WATER.

THERE ARE NO SINKHOLES, LAKEBEDS OR PLAYA LAKES WITHIN THE BOUNDARIES OF THIS MAP USING MAPPED DATA FROM THE USFS NWI AND USGS.

NHD: NATIONAL HYDROGRAPHY DATASET
 NMAC: NEW MEXICO ADMINISTRATIVE CODE
 NM OSE: NEW MEXICO OFFICE OF THE STATE ENGINEER
 USGS: UNITED STATES GEOLOGICAL SURVEY

IMAGE COURTESY OF ESRI

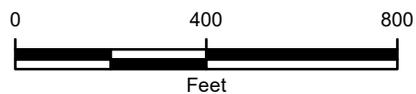


FIGURE 3
 PROXIMITY TO WATERCOURSE, LAKEBED,
 SINKHOLE, OR PLAYA LAKE
 CHACO 2308 3L 404H
 NWSW SEC 3-T23N-R8W
 SAN JUAN COUNTY, NEW MEXICO
 WHIPTAIL MIDSTREAM



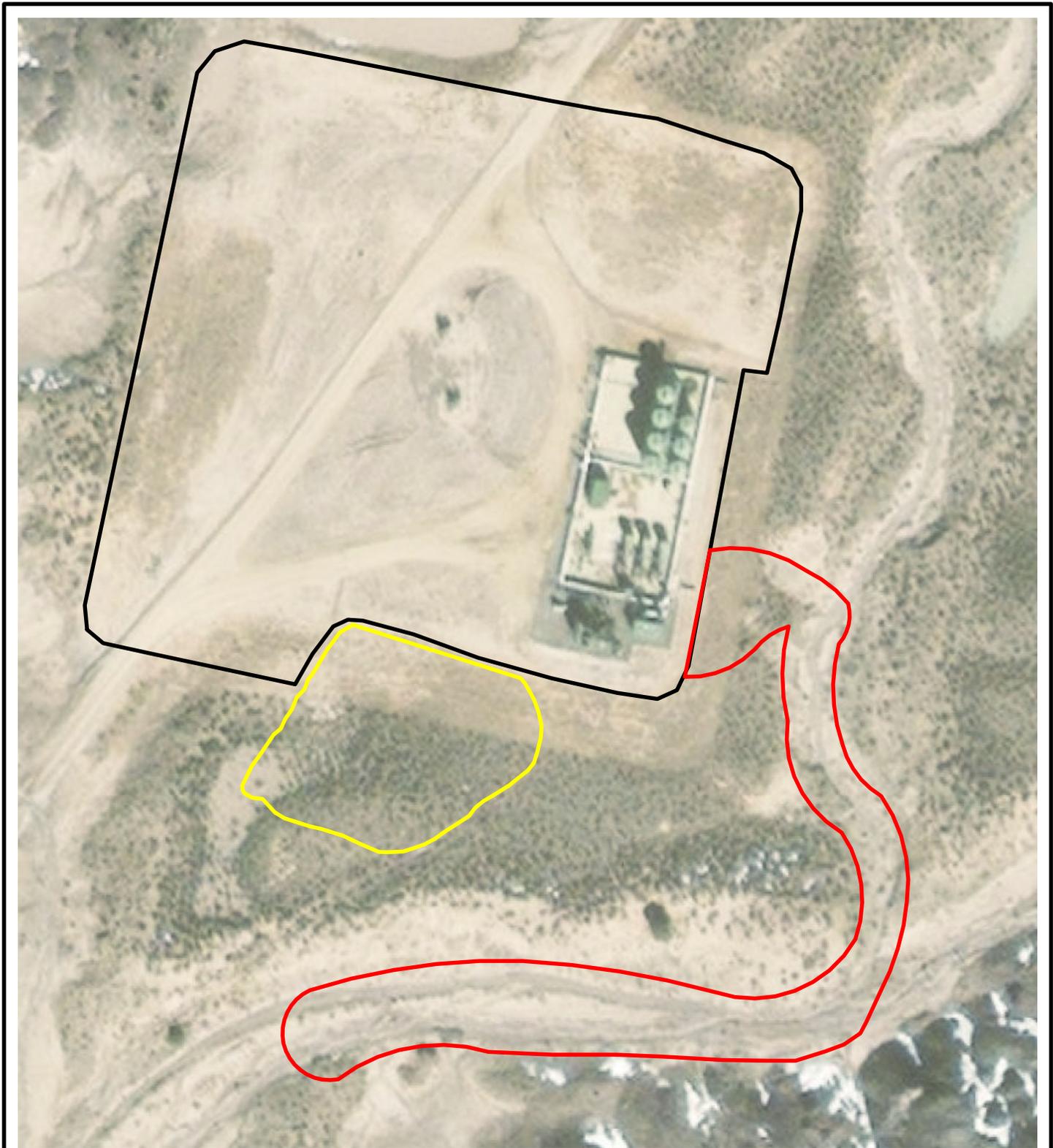


IMAGE COURTESY OF ESRI

LEGEND

-  PAD AREA
-  WASH AREA
-  SOUTHWEST AREA

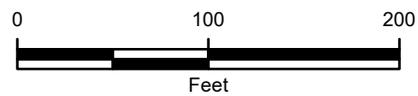


FIGURE 4
EXCAVATION AREAS
CHACO 2308 3L 404H
NWSW SEC 3-T23N-R8W
SAN JUAN COUNTY, NEW MEXICO
WHIPTAIL MIDSTREAM



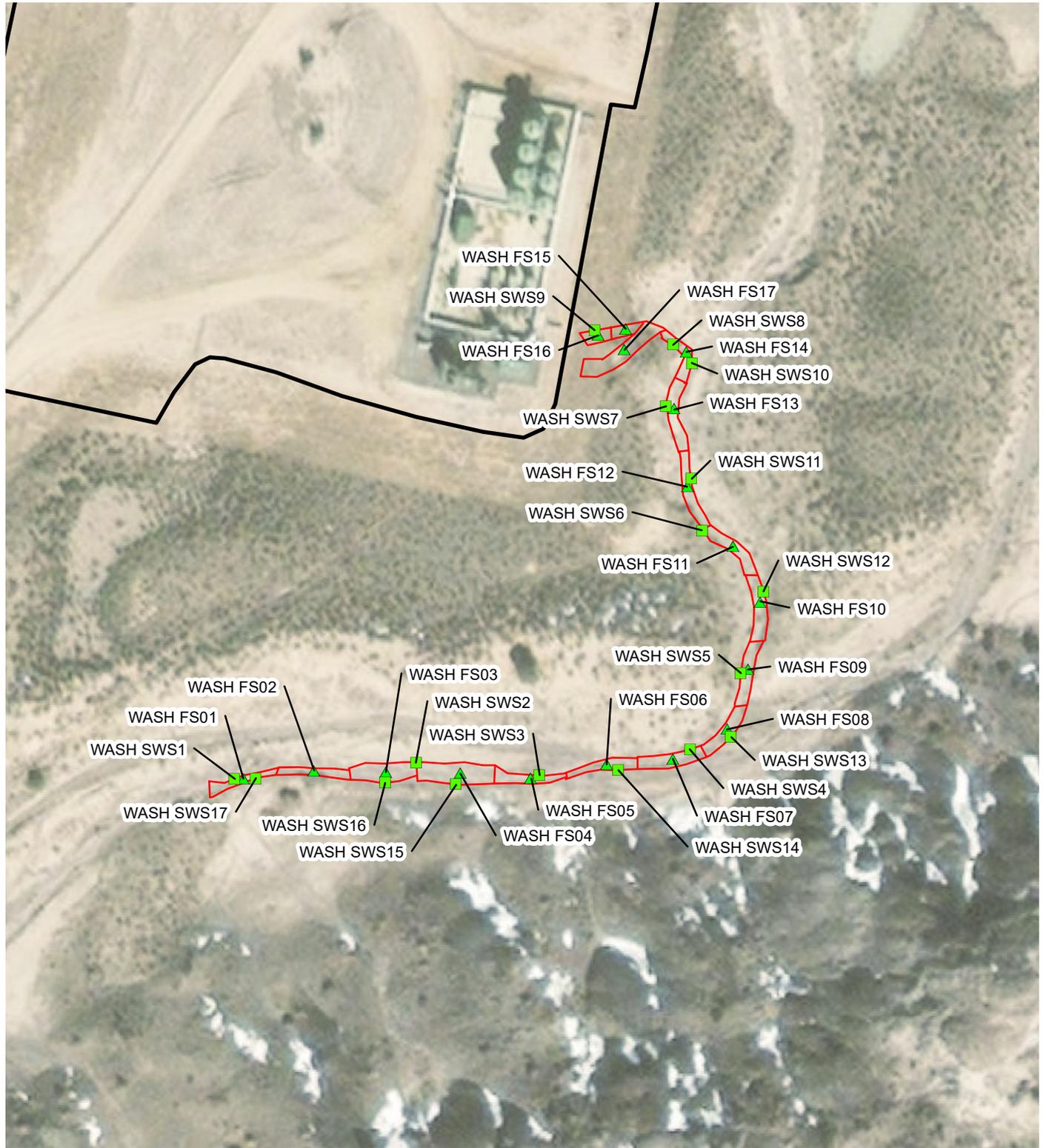


IMAGE COURTESY OF ESRI

LEGEND

- ▲ FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- WASH
- PAD AREA

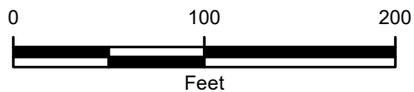
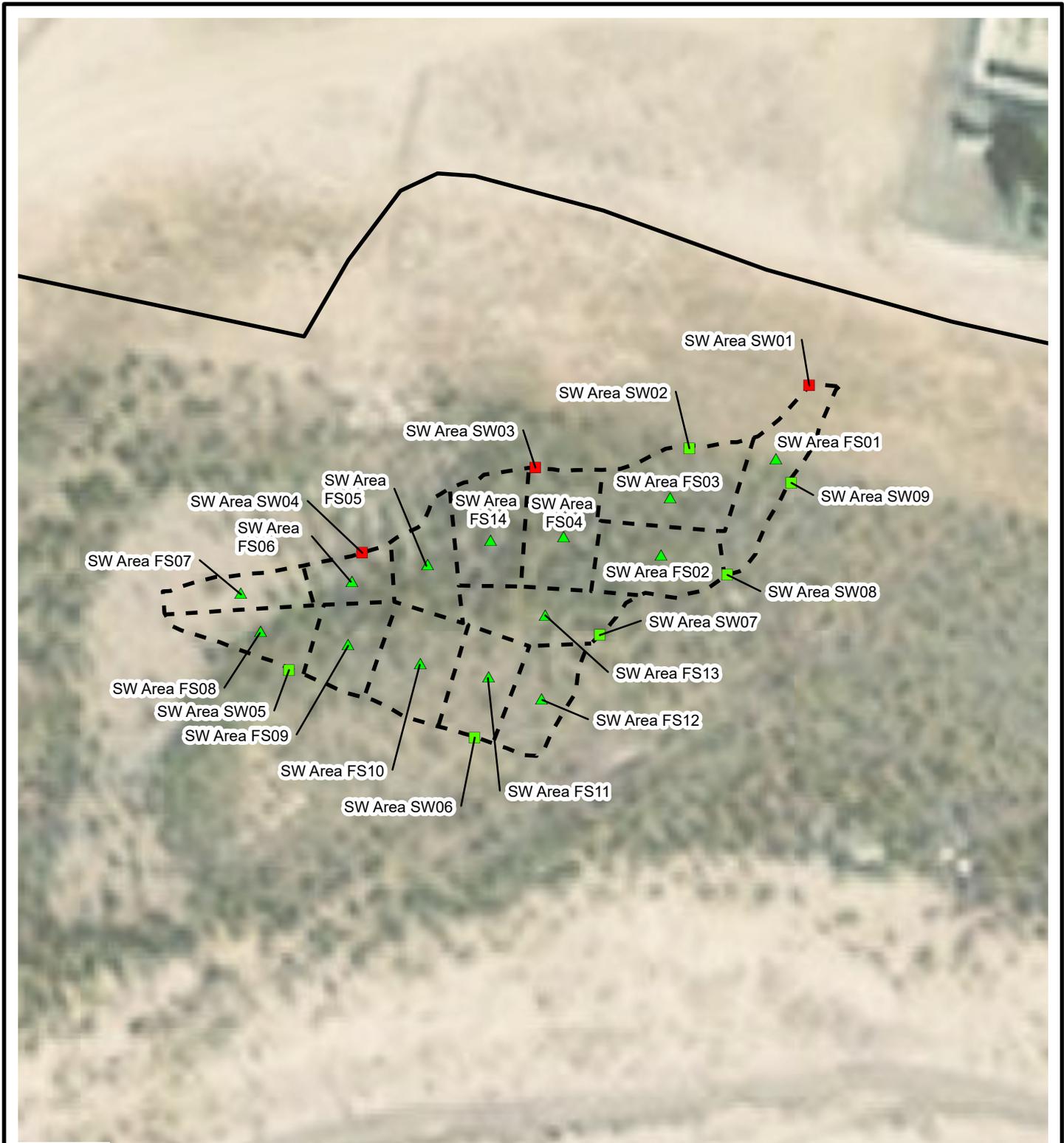


FIGURE 5
WASH EXCAVATION SAMPLE LOCATIONS
 CHACO 2308 3L 404H
 NWSW SEC 3-T23N-R8W
 SAN JUAN COUNTY, NEW MEXICO
 WHIPTAIL MIDSTREAM



P:\Enduring Resources\GIS\MXD\077920009_CHACO 2308 03L #405H\TE077920009_FIG05_WASH_EXC SAMPLE LOC_2020.mxd



LEGEND

- ▲ FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- PAD AREA
- EXCAVATION EXTENT FLOOR

IMAGE COURTESY OF ESRI

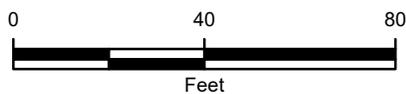
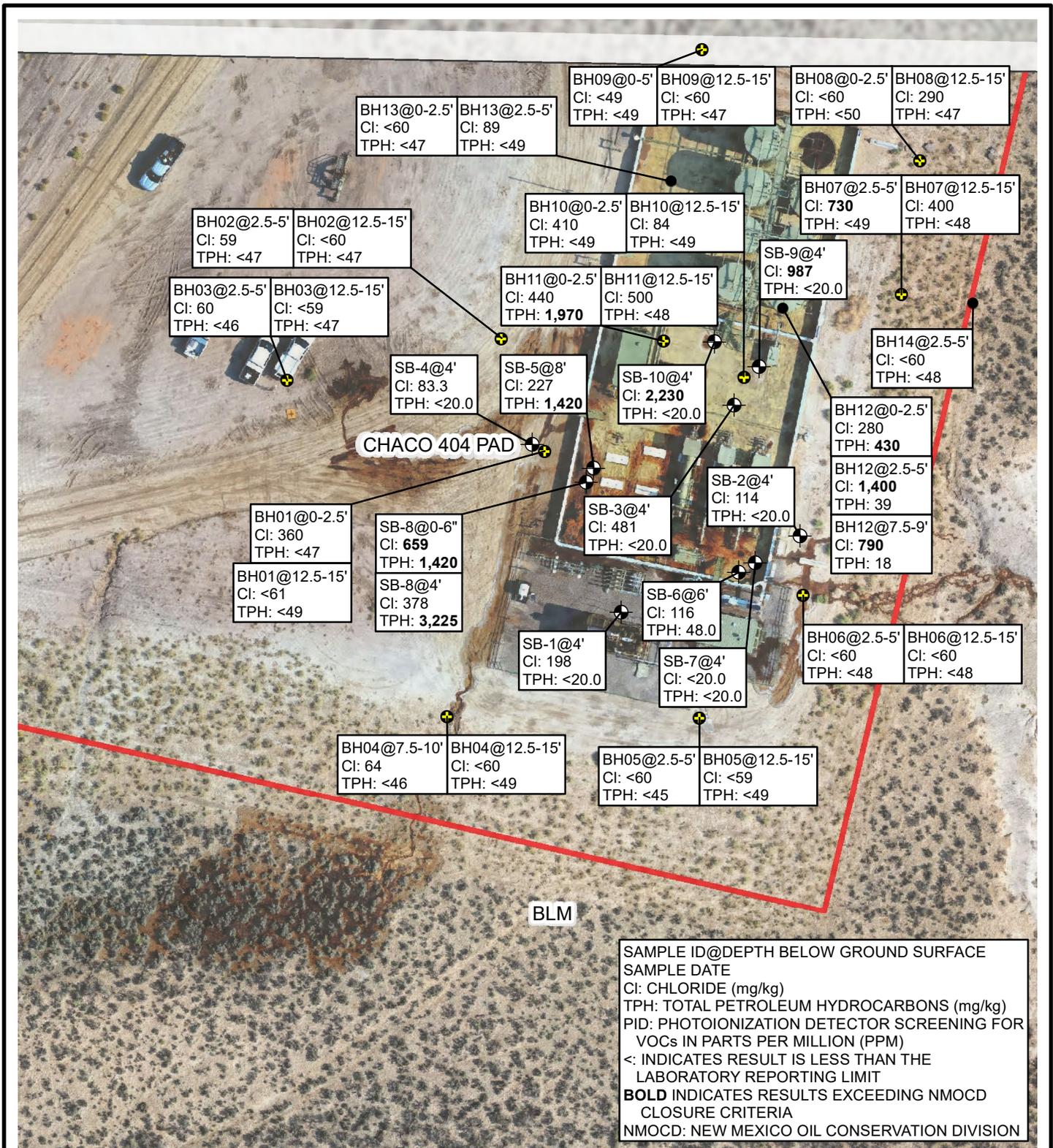


FIGURE 6
SOUTHWEST AREA EXCAVATION SAMPLE LOCATIONS
 CHACO 2308 3L 404H
 NWSW SEC 3-T23N-R8W
 SAN JUAN COUNTY, NEW MEXICO
WHIPTAIL MIDSTREAM



P:\Enduring Resources\GIS\MXD\077920009_CHACO 2308 03L #405H\TE077920009_FIG06_SW AREA_EXC SAMPLE LOC_2020.mxd



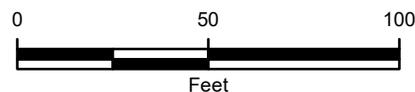
BLM

SAMPLE ID@DEPTH BELOW GROUND SURFACE
SAMPLE DATE
Ci: CHLORIDE (mg/kg)
TPH: TOTAL PETROLEUM HYDROCARBONS (mg/kg)
PID: PHOTOIONIZATION DETECTOR SCREENING FOR VOCs IN PARTS PER MILLION (PPM)
<: INDICATES RESULT IS LESS THAN THE LABORATORY REPORTING LIMIT
BOLD INDICATES RESULTS EXCEEDING NMOCD CLOSURE CRITERIA
NMOCD: NEW MEXICO OIL CONSERVATION DIVISION

IMAGE COURTESY OF ENDURING RESOURCES, AUGUST 18, 2020

LEGEND

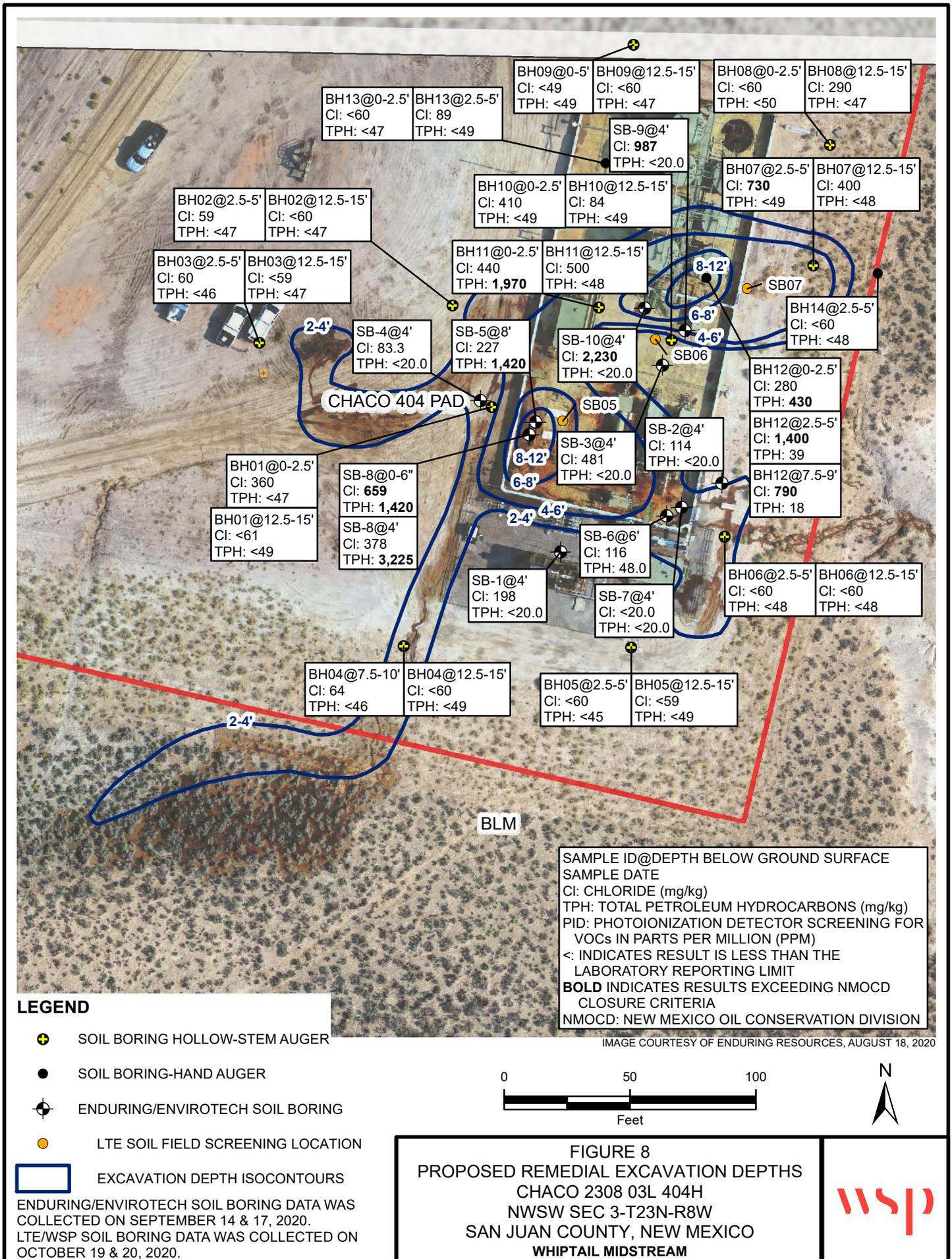
- ⊕ SOIL BORING HOLLOW-STEM AUGER
- SOIL BORING-HAND AUGER
- ⊕ ENDURING/ENVIROTECH SOIL BORING



ENDURING/ENVIROTECH SOIL BORING DATA WAS COLLECTED ON SEPTEMBER 14 & 17, 2020.
LTE/WSP SOIL BORING DATA WAS COLLECTED ON OCTOBER 19 & 20, 2020.

FIGURE 7
SOIL DELINEATION ANALYTICAL RESULTS
CHACO 2308 03L 404H
NWSW SEC 3-T23N-R8W
SAN JUAN COUNTY, NEW MEXICO
WHIPTAIL MIDSTREAM





TABLES

Table 1

Wash Area Excavation Soil Analytical Results
CHACO 2308 03L #404H
San Juan County, New Mexico

Sample ID	Sample Date	Sample Depth (feet)	Chloride (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-MRO (mg/kg)	TPH (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			600	10	50	NE	NE	NE	100
Excavation Floor Samples									
Wash FS01	8/31/2020	4'	<60	<0.022	<0.202	<9.0	<4.5	<45	<58.5
Wash FS02	8/31/2020	4'	<59	<0.021	<0.189	<9.3	<4.2	<47	<60.5
Wash FS03	8/31/2020	4'	<59	<0.025	<0.227	<9.9	<5.1	<49	<64.0
Wash FS04	8/31/2020	4'	<60	<0.026	<0.228	<9.6	<5.1	<48	<62.7
Wash FS05	8/31/2020	4'	<59	<0.027	<0.245	<9.4	<5.4	<47	<61.8
Wash FS06	8/31/2020	4'	<60	<0.019	<0.167	<9.0	<3.7	<45	<57.7
Wash FS07	8/31/2020	4'	<60	<0.021	<0.190	<9.7	<4.2	<49	<62.9
Wash FS08	8/31/2020	4'	<60	<0.022	<0.199	<9.4	<4.4	<47	<60.8
Wash FS09	8/31/2020	4'	<60	<0.020	<0.181	<9.2	<4.0	<46	<59.2
Wash FS10	8/31/2020	4'	<60	<0.025	<0.221	<9.4	<4.9	<47	<61.3
Wash FS11	8/31/2020	4'	<59	<0.023	<0.208	<9.3	<4.6	<46	<59.9
Wash FS12	8/31/2020	4'	<61	<0.021	<0.189	<9.7	<4.2	<48	<61.9
Wash FS13	8/31/2020	3'	<60	<0.018	<0.159	<9.6	<3.5	<48	<61.1
Wash FS14	8/31/2020	3'	<60	<0.019	<0.170	<9.1	<3.8	<45	<57.9
Wash FS15	8/31/2020	3'	250	<0.028	<0.250	24	<5.6	<48	24
Wash FS16	8/31/2020	2.5'	<60	<0.019	<0.170	<9.8	<3.8	<49	<62.6
Wash FS17	8/31/2020	2.5'	150	<0.018	<0.162	48	<3.6	<48	48
Excavation Sidewall Samples									
Wash SW01	8/31/2020	1' - 3'	<60	<0.026	<0.230	<9.5	<5.2	<47	<61.7
Wash SW02	8/31/2020	0.5' - 2'	<60	<0.020	<0.183	<9.9	<4.1	<50	<64
Wash SW03	8/31/2020	1' - 3'	<59	<0.023	<0.211	<9.1	<4.7	<46	<59.8
Wash SW04	8/31/2020	0.5' - 3'	<60	<0.027	<0.245	33	<5.4	<48	33
Wash SW05	8/31/2020	0.5' - 3'	<60	<0.028	<0.248	<9.3	<5.5	<47	<61.8
Wash SW06	8/31/2020	0.5' - 3'	<60	<0.019	<0.168	<9.2	<3.7	<46	<58.9
Wash SW07	8/31/2020	0.5' - 2.5'	<60	<0.019	<0.175	<9.1	<3.9	<45	<58.0
Wash SW08 (1)	8/31/2020	0.5' - 2'	490	<0.10	<0.93	1,200	<21	910	2,110
Wash SW08-B	9/3/2020	0.5' - 2'	<60	<0.018	<0.162	<9.4	<3.6	<47	<60.0
Wash SW09	8/31/2020	0.5' - 2'	<60	<0.021	<0.192	17	<4.3	<45	17
Wash SW10 (1)	8/31/2020	0.5' - 3'	180	<0.019	<0.174	100	<3.9	160	260
Wash SW10-B	9/3/2020	0.5' - 3'	<60	<0.018	<0.163	<9.7	<3.6	<48	<61.3
Wash SW11	8/31/2020	1' - 4'	68	<0.020	<0.177	<9.5	<3.9	<48	<61.4
Wash SW12	8/31/2020	1' - 3.5'	<60	<0.022	<0.201	<8.9	<4.5	<44	<57.4
Wash SW13	8/31/2020	0.5' - 3'	<60	<0.021	<0.186	<8.9	<4.1	<44	<57.0
Wash SW14	8/31/2020	1' - 3'	<60	<0.023	<0.208	<9.4	<4.6	<47	<61.0
Wash SW15	8/31/2020	1' - 3.5'	<61	<0.021	<0.185	<9.3	<4.1	<47	<60.4
Wash SW16	8/31/2020	0.5' - 3'	<60	<0.023	<0.208	<9.8	<4.6	<49	<63.4
Wash SW17	8/31/2020	1' - 3'	<60	<0.020	<0.183	14	<4.1	<47	14

Notes:

- (1) - Soil was subsequently removed from the sidewall in this location and resampled. Sidewall samples collected after additional soil removal are indicated with a "B".
- mg/kg - milligrams per kilograms
- DRO - diesel range organics
- GRO - gasoline range organics
- MRO - motor oil range organics
- TPH- total petroleum hydrocarbons
- NE - Not Established
- < indicates result is less than the stated laboratory method practical quantitation limit
- BOLD** indicates results exceed the higher of the background sample result or practical quantitation limit

Table 2

Southwest Area Excavation Soil Analytical Results
CHACO 2308 03L #404H
San Juan County, New Mexico

Sample ID	Sample Date	Sample Depth (feet)	Chloride (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-MRO (mg/kg)	TPH (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			600	10	50	NE	NE	NE	100
Excavation Floor Samples									
SW Area FS01	9/3/2020	6'	220	<0.025	<0.225	<9.2	<5.0	<46	<60.2
SW Area FS02	9/3/2020	6'	540	<0.025	<0.225	<9.3	<5.0	<46	<60.3
SW Area FS03	9/3/2020	6'	460	<0.023	<0.208	<9.1	<4.6	<46	<59.7
SW Area FS04	9/3/2020	6'	230	<0.025	<0.225	<9.1	<5.0	<46	<60.1
SW Area FS05	9/3/2020	4.5'	490	<0.025	<0.225	<9.1	<5.0	<46	<60.1
SW Area FS06	9/3/2020	2'	<59	<0.026	<0.230	<9.9	<5.2	<49	<64.1
SW Area FS07	9/3/2020	2'	<60	<0.023	<0.203	<9.6	<4.5	<48	<62.1
SW Area FS08	9/3/2020	2'	<61	<0.023	<0.208	<9.9	<4.6	<49	<63.5
SW Area FS09	9/3/2020	2'	<61	<0.019	<0.167	<9.4	<3.7	<47	<60.1
SW Area FS10	9/3/2020	2'	<60	<0.021	<0.188	<9.4	<4.2	<47	<60.6
SW Area FS11	9/3/2020	2'	<60	<0.021	<0.185	<9.3	<4.1	<47	<60.4
SW Area FS12	9/3/2020	2'	<60	<0.020	<0.176	<9.4	<3.9	<47	<60.3
SW Area FS13	9/3/2020	6'	<60	<0.024	<0.216	<9.6	<4.8	<48	<62.4
SW Area FS14	9/3/2020	6'	150	<0.026	<0.230	<9.5	<5.2	<48	<62.7
Excavation Sidewall Samples									
SW Area SW01	9/3/2020	1' - 6'	1,000	<0.018	<0.165	<9.7	<3.7	<48	<61.4
SW Area SW02	9/3/2020	1' - 6'	280	<0.019	<0.168	<9.7	<3.7	<48	<61.4
SW Area SW03	9/3/2020	1' - 6'	630	<0.020	<0.181	<9.5	<4.0	<47	<60.5
SW Area SW04	9/3/2020	0.5' - 2'	1,000	<0.020	<0.181	<9.7	<4.0	<48	<61.7
SW Area SW05	9/3/2020	0.5' - 2'	<60	<0.025	<0.225	<9.2	<5.0	<46	<60.2
SW Area SW06	9/3/2020	0.5' - 2'	<60	<0.025	<0.225	<9.8	<5.0	<49	<63.8
SW Area SW07	9/3/2020	0.5' - 2'	<60	<0.025	<0.225	<9.8	<5.0	<49	<63.8
SW Area SW08	9/3/2020	0.5' - 4'	<60	<0.025	<0.225	<9.6	<5.0	<48	<62.6
SW Area SW09	9/3/2020	1' - 6'	270	<0.025	<0.225	<9.4	<5.0	<47	<61.4

Notes:

- mg/kg - milligrams per kilograms
- DRO - diesel range organics
- GRO - gasoline range organics
- MRO - motor oil range organics
- TPH- total petroleum hydrocarbons
- NE - Not Established
- < indicates result is less than the stated laboratory method practical quantitation limit
- BOLD** indicates results exceed the higher of the background sample result or practical quantitation limit

Table 3
Soil Delineation Analytical Results
CHACO 2308 03L #404H
San Juan County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Chloride Field Screening (ppm)	Chloride (mg/kg)	PID Field Screening (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)	TPH (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			NE	600	NE	10	NE	NE	NE	50	NE	NE	NE	100
Enduring/Envirotech Soil Borings														
SB-1 @ 4'	9/14/2020	4	---	198	---	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0
SB-2 @ 4'	9/14/2020	4	---	114	---	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0
SB-3 @ 4'	9/14/2020	4	---	481	---	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0
SB-4 @ 4'	9/14/2020	4	---	83.3	---	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0
SB-5 @ 8'	9/14/2020	8	---	227	---	<0.0250	<0.0250	<0.0250	0.735	0.735	<20.0	989	429	1,420
SB-6 @ 6'	9/14/2020	6	---	116	---	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	48.0	<50.0	48.0
SB-7 @ 4'	9/14/2020	4	---	<20.0	---	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0
SB-8 @ 0-6"	9/17/2020	0 - 0.5	---	659	---	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	2,130	961	3,091
SB-8 @ 4'	9/17/2020	4	---	378	---	0.0295	0.213	0.125	2.18	2.55	39.8	2,300	885	3,225
SB-9 @ 4'	9/17/2020	4	---	987	---	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0
SB-10 @ 4'	9/17/2020	4	---	2,230	---	0.0299	<0.0250	<0.0250	<0.0250	0.0299	<20.0	<25.0	<50.0	<20.0
Background	9/17/2020	---	---	<20.0	---	---	---	---	---	---	---	---	---	---
WSP Soil Borings														
BH01@0-2.5'	10/19/2020	0 - 2.5	316	360	3.5	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.4	<47	<47
---	10/19/2020	2.5 - 5	<120	---	4.6	---	---	---	---	---	---	---	---	---
---	10/19/2020	5 - 7.5	<120	---	3.5	---	---	---	---	---	---	---	---	---
---	10/19/2020	7.5 - 10	<120	---	4.1	---	---	---	---	---	---	---	---	---
---	10/19/2020	10 - 12.5	<120	---	---	---	---	---	---	---	---	---	---	---
BH01@12.5-15'	10/19/2020	12.5 - 15	<120	<61	---	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<49	<49
---	10/19/2020	0 - 2.5	120	---	1.9	---	---	---	---	---	---	---	---	---
BH02@2.5-5'	10/19/2020	2.5 - 5	120	59	3.2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.5	<47	<47
---	10/19/2020	5 - 7.5	<120	---	2.2	---	---	---	---	---	---	---	---	---
---	10/19/2020	7.5 - 10	<120	---	2.1	---	---	---	---	---	---	---	---	---
---	10/19/2020	10 - 12.5	<120	---	1.1	---	---	---	---	---	---	---	---	---
BH02@12.5-15'	10/19/2020	12.5 - 15	<120	<60	0.8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47
---	10/19/2020	0 - 2.5	<120	---	1.0	---	---	---	---	---	---	---	---	---
BH03@2.5-5'	10/19/2020	2.5 - 5	<120	60	1.7	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.3	<46	<46
---	10/19/2020	5 - 7.5	<120	---	0.8	---	---	---	---	---	---	---	---	---
---	10/19/2020	7.5 - 10	<120	---	0.7	---	---	---	---	---	---	---	---	---
---	10/19/2020	10 - 12.5	<120	---	1.0	---	---	---	---	---	---	---	---	---
BH03@12.5-15'	10/19/2020	12.5 - 15	<120	<59	0.8	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<0.095	<47	<47
---	10/19/2020	0 - 2.5	<120	---	1.3	---	---	---	---	---	---	---	---	---
---	10/19/2020	2.5 - 5	<120	---	1.6	---	---	---	---	---	---	---	---	---
---	10/19/2020	5 - 7.5	<120	---	2.5	---	---	---	---	---	---	---	---	---
BH04@7.5-10'	10/19/2020	7.5 - 10	<120	64	4.0	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.3	<46	<46
---	10/19/2020	10 - 12.5	<120	---	0.9	---	---	---	---	---	---	---	---	---
BH04@12.5-15'	10/19/2020	12.5 - 15	<120	<60	0.9	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49
---	10/19/2020	0 - 2.5	<120	---	4.0	---	---	---	---	---	---	---	---	---
BH05@2.5-5'	10/19/2020	2.5 - 5	<120	<60	5.1	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.0	<45	<45
---	10/19/2020	5 - 7.5	<120	---	1.8	---	---	---	---	---	---	---	---	---
---	10/19/2020	7.5 - 10	<120	---	1.6	---	---	---	---	---	---	---	---	---
---	10/19/2020	10 - 12.5	<120	---	1.8	---	---	---	---	---	---	---	---	---
BH05@12.5-15'	10/19/2020	12.5 - 15	<120	<59	1.3	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49
---	10/19/2020	0 - 2.5	<120	---	1.3	---	---	---	---	---	---	---	---	---
BH06@2.5-5'	10/19/2020	2.5 - 5	<120	<60	33.4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.7	<48	<48
---	10/19/2020	5 - 7.5	<120	---	12.8	---	---	---	---	---	---	---	---	---
---	10/19/2020	7.5 - 10	<120	---	6.2	---	---	---	---	---	---	---	---	---
---	10/19/2020	10 - 12.5	<120	---	3.1	---	---	---	---	---	---	---	---	---
BH06@12.5-15'	10/19/2020	12.5 - 15	<120	<60	1.7	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48

Table 3
Soil Delineation Analytical Results
CHACO 2308 03L #404H
San Juan County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Chloride Field Screening (ppm)	Chloride (mg/kg)	PID Field Screening (ppm)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-MRO (mg/kg)	TPH (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			NE	600	NE	10	NE	NE	NE	50	NE	NE	NE	100
BH07@2.5-5'	10/19/2020	0 - 2.5	364	---	1.2	---	---	---	---	---	---	---	---	---
	10/20/2020	2.5 - 5	748	730	5.1	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49
	10/19/2020	5 - 7.5	268	---	3.6	---	---	---	---	---	---	---	---	---
BH07@12.5-15'	10/19/2020	7.5 - 10	<120	---	3.2	---	---	---	---	---	---	---	---	---
	10/19/2020	10 - 12.5	---	---	---	---	---	---	---	---	---	---	---	---
	10/20/2020	12.5 - 15	<120	400	2.8	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.6	<48	<48
BH08@0-2.5'	10/20/2020	0 - 2.5	<120	<60	1.8	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<10	<50	<50
	10/19/2020	2.5 - 5	<120	---	1.6	---	---	---	---	---	---	---	---	---
	10/19/2020	5 - 7.5	<120	---	2.2	---	---	---	---	---	---	---	---	---
BH08@12.5-15'	10/19/2020	7.5 - 10	<120	---	2.1	---	---	---	---	---	---	---	---	---
	10/19/2020	10 - 12.5	<120	---	1.8	---	---	---	---	---	---	---	---	---
	10/20/2020	12.5 - 15	<120	290	1.3	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<47
BH09@0-5'	10/20/2020	0 - 5'	<120	<49	0.8	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<49	<49
	10/19/2020	5 - 7.5	---	---	---	---	---	---	---	---	---	---	---	---
	10/19/2020	7.5 - 10	<120	---	2.4	---	---	---	---	---	---	---	---	---
BH09@12.5-15'	10/19/2020	10 - 12.5	---	---	---	---	---	---	---	---	---	---	---	---
	10/20/2020	12.5 - 15	<120	<60	1.6	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<47
	BH10@0-2.5'	10/20/2020	0 - 2.5	268	410	8.2	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.8	<49
10/19/2020		2.5 - 5	224	---	7.8	---	---	---	---	---	---	---	---	---
10/19/2020		5 - 7.5	<120	---	5.9	---	---	---	---	---	---	---	---	---
BH10@12.5-15'	10/19/2020	7.5 - 10	<120	---	5.6	---	---	---	---	---	---	---	---	---
	10/19/2020	10 - 12.5	<120	---	4.2	---	---	---	---	---	---	---	---	---
	10/20/2020	12.5 - 15	<120	84	3.6	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.7	<49	<49
BH11@0-2.5'	10/20/2020	0 - 2.5	688	440	114.3	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	1,000	970	1,970
	10/19/2020	2.5 - 5	<120	---	42.8	---	---	---	---	---	---	---	---	---
	10/19/2020	5 - 7.5	<120	---	39.7	---	---	---	---	---	---	---	---	---
BH11@12.5-15'	10/19/2020	7.5 - 10	<120	---	37.3	---	---	---	---	---	---	---	---	---
	10/19/2020	10 - 12.5	<120	---	19.5	---	---	---	---	---	---	---	---	---
	10/20/2020	12.5 - 15	<120	500	12.3	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48
BH12@0-2.5'	10/20/2020	0 - 2.5	120	280	315	<0.048	<0.096	<0.096	<0.19	<0.19	<9.6	230	200	430
BH12@2.5-5'	10/20/2020	2.5 - 5	1,740	1,400	244	0.053	<0.097	<0.097	0.28	0.333	11	28	<47	39
BH12@7.5-9'	10/19/2020	5 - 7.5	412	---	35.2	---	---	---	---	---	---	---	---	---
	10/20/2020	7.5 - 9	184	790	153	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	18	<50	18
BH13@0-2.5'	10/20/2020	0 - 2.5	<120	<60	2.3	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47
BH13@2.5-5'	10/20/2020	2.5 - 5	<120	89	1.8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49
BH14@2.5-5'	10/20/2020	2.5 - 5	---	<60	---	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48

Notes:

- mg/kg - milligrams per kilograms
- DRO - diesel range organics
- GRO - gasoline range organics
- MRO - motor oil range organics
- NE - Not Established
- PID - photoionization detector
- TPH - total petroleum hydrocarbons
- - dashes indicate field screening sample only, no sample collected for laboratory analysis
- < indicates result is less than the stated laboratory method practical quantitation limit
- BOLD** indicates results exceed the higher of the background sample result or practical quantitation limit

PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
Whiptail Midstream	Chaco 2308 03L #404H	TE077920009
SAN JUAN COUNTY, NEW MEXICO		

Photo No.	Date	
1	August 18, 2020	
Residual crude and produced water inside secondary containment. View looking south from southeast corner of secondary containment.		

Photo No.	Date	
2	August 18, 2020	
Release path to the south of the secondary containment. Crude/produced water migrated into the vegetation south of the well pad. View looking south from southwest corner of secondary containment.		



PHOTOGRAPHIC LOG		
Whiptail Midstream	Chaco 2308 03L #404H	TE077920009
SAN JUAN COUNTY, NEW MEXICO		

Photo No.	Date	
3	August 18, 2020	
<p>Release path to the west of the secondary containment. Crude/produced water migrated into the well pad. View looking north from southwest corner of secondary containment.</p>		

Photo No.	Date	
4	August 26, 2020	
<p>Wash Area excavation inside the tributary wash. View looking northeast.</p>		



PHOTOGRAPHIC LOG		
Whiptail Midstream	Chaco 2308 03L #404H	TE077920009
SAN JUAN COUNTY, NEW MEXICO		

Photo No.	Date	
5	August 26, 2020	
<p>SW Area Excavation. Impacted soil was removed from the vegetated area south of the well pad. The soil stockpile on the right side of the photograph prevented further removal of impacted soil on the north sidewall of the excavation.</p> <p>View looking southwest.</p>		

Photo No.	Date	
6	August 28, 2020	
<p>Chloride crusting and wet soils remaining at the Site. View looking north on east side of secondary containment.</p>		

APPENDIX

A NMOCD VARIANCE REQUEST APPROVAL

From: [Smith, Cory, EMNRD](#)
To: [Ernie Johnson](#)
Cc: [Stuart Hyde](#); [Brooke Herb](#); [Adeloye, Abiodun A](#)
Subject: RE: Sampling Variance Request - Chaco 2308 3L 405H
Date: Monday, August 31, 2020 7:29:14 AM
Attachments: [image002.png](#)
[image003.png](#)
[image004.png](#)

Ernie,

OCD approves the 400sqft sampling in the wash area south of the pad. Upon completion of the excavation in the other areas when further details are available OCD will make a determination on those areas.

Please include this approval in your Final C-141.

OCD approval of alternative sampling size does not relieve Whiptail of any other requirements imposed by other regulatory agencies.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Brooke Herb <bherb@ltenv.com>
Sent: Friday, August 28, 2020 3:55 PM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Cc: Ernie Johnson <ernie.johnson@whiptailmidstream.com>; Stuart Hyde <shyde@ltenv.com>
Subject: [EXT] Sampling Variance Request - Chaco 2308 3L 405H

Cory,

LT Environmental, Inc. (LTE), on behalf of Whiptail Midstream (Whiptail), presents the following Sampling Variance Request sent via e-mail to propose alternative closure sampling to confirm the remediation of impacted soil at the Chaco 2308 3L 405H (Site) in the northwest quarter of the southwest quarter of Section 3, Township 23 North, Range 8 West, in San Juan County, New Mexico (Figure 1). The sampling described is designed to evaluate remediation progress and propose a variance to the New Mexico Oil Conservation Division (NMOCD) confirmation sampling requirements in 19.15.29.12.D(3) of the New Mexico Administrative Code (NMAC).

Whiptail has excavated approximately 875 cubic yards of impacted soil from a tributary to and within Kimbeto Wash. The excavation is approximately 800 feet long, and an average of 8 feet wide, and 4 feet deep. Whiptail is requesting a variance to the 200-square foot confirmation sampling

requirement for the area to be excavated, which would require an estimated 32 floor samples and 34 sidewall samples from the wash excavation. Due to the large size of the affected area, LTE proposes increasing the confirmation sampling size to a 400-square foot area and collecting a 5-point composite sample to represent each 400-square foot area. A 5-point composite sample would be collected approximately every 50 feet from the floor of the excavation (estimated 16 floor samples) and a 5-point composite sample would be collected approximately every 100 feet of the sidewalls (estimated 17 sidewall samples) to confirm remediation of any impacts within the release extent in the wash.

The total extent of the excavation in areas on the pad and to the southwest of the pad are unknown at this time; however, Whiptail requests additional samples be included in this variance and collected every 400-square feet to address the additional excavation areas. As of August 28, 2020, Whiptail has excavated approximately 1,050 cubic yards of soil from an area southwest of the pad. This excavation is not complete and will be extended vertically and horizontally. Based on field screening delineation, LTE estimates that at 200 ft² sampling grid we would have to sample approximately 50 floor samples and 20 sidewall samples.

Thank you,
Brooke



Brooke Herb
Project Geologist/ Four Corners Office Manager
970.403.6824 *cell*
970.385.1096 *direct*
848 East Second Avenue Durango, CO 81301
www.ltenv.com



Think before you print. [Click for our email disclosure.](#)

APPENDIX

B WCRM ARCHAEOLOGICAL SURVEY

WCRM

Western Cultural Resource Management, Inc.

November 5, 2020

Mr. Ernie Johnson
Whiptail Midstream
15 W. 6th Street, Suite 2901
Tulsa, OK. 74119

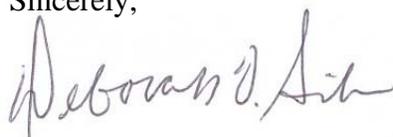
Dear Ernie:

As requested, the client copy of our report on the archaeological survey of the proposed *Archaeological Emergency Survey for the Cleanup of Whiptail Midstream Chaco 2308 3L 405H Oil Pipeline Release, San Juan County, New Mexico*, has been submitted electronically to you. During the survey, no cultural material was encountered.

WCRM recommends the project be allowed to proceed. The agency copies of the report have been submitted to the Bureau of Land Management, Farmington Field Office, who will review this report and make the final decision on archaeological approval for your project.

Please contact us if you have any questions concerning the report.

Sincerely,



Deborah V. Gibson
Project Manager

enc.

cc: Eric Simpson, BLM
Brooke Herb, LTE (electronic only)
Tom Lennon, WCRM

NMCRI INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRI Activity No.: 146560	2a. Lead (Sponsoring) Agency: Bureau of Land Management - Farmington Field Office	2b. Other Permitting Agency(ies):	3. Lead Agency Report No.:									
4. Title of Report: Archaeological Emergency Survey for the Cleanup of Whiptail Midstream Chaco 2308 3L 405H Oil Pipeline Release, San Juan County, New Mexico Authors: Michael J. Proper and Deborah V. Gibson			5. Type of Report <input checked="" type="checkbox"/> Negative <input type="checkbox"/> Positive									
6. Investigation Type <input type="checkbox"/> Research Design <input checked="" type="checkbox"/> Survey/Inventory <input type="checkbox"/> Test Excavation <input type="checkbox"/> Excavation <input type="checkbox"/> Collections/Non-Field Study <input type="checkbox"/> Overview/Lit Review <input type="checkbox"/> Monitoring <input type="checkbox"/> Ethnographic study <input type="checkbox"/> Site specific visit <input type="checkbox"/> Other												
7. Description of Undertaking (what does the project entail?): Greg Riley of Whiptail Midstream, LLC (Whiptail) contacted personnel from Western Cultural Resource Management, Inc. (WCRM) to conduct an emergency survey of an oil spill that occurred on the Chaco 2308 3L 405H well pad. Bureau of Land Management - Farmington Field Office (BLM-FFO) verbal stipulations were to survey the affected area for cultural resources and monitor the initial cleanup activities if cultural resources were discovered (Erik Simpson, personal communication, August 18, 2020). The area directly affected was defined as the spill area. In addition to the spill area a cultural buffer was surveyed around the entire spill area (i.e., 7.09 acres). No cultural resources were located during the two surveys conducted on August 19 th and 28 th that inventoried the project area; therefore, the cleanup operations were not monitored.		8. Dates of Investigation: August 19, 2020 9. Report Date: November 4, 2020										
10. Performing Agency/Consultant: Western Cultural Resource Management, Inc. Principal Investigator: Deborah V. Gibson, Project Director Field Supervisor: Michael J. Proper Field Personnel Names: Michael J. Proper		11. Performing Agency/Consultant Report No.: WCRM(F)1576 Project No.: 20F025 12. Applicable Cultural Resource Permit No(s): 25-2920-18-SS										
13. Client/Customer (project proponent): Whiptail Midstream, LLC Contact: Ernie Johnson Address: 15 W. 6 th Street, Suite 2901, Tulsa, OK 74119 Phone: (918) 289-2147		14. Client/Customer Project No.:										
15. Land Ownership Status (<u>Must be indicated on project map</u>): <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 60%;">Land Owner</th> <th style="width: 20%;">Acres Surveyed*</th> <th style="width: 20%;">Acres in APE</th> </tr> </thead> <tbody> <tr> <td>BLM-FFO</td> <td style="text-align: center;">7.09</td> <td style="text-align: center;">1.74</td> </tr> <tr> <td style="text-align: right;">TOTALS</td> <td style="text-align: center;">7.09</td> <td style="text-align: center;">1.74</td> </tr> </tbody> </table> <p>*as calculated in ArcGIS</p>				Land Owner	Acres Surveyed*	Acres in APE	BLM-FFO	7.09	1.74	TOTALS	7.09	1.74
Land Owner	Acres Surveyed*	Acres in APE										
BLM-FFO	7.09	1.74										
TOTALS	7.09	1.74										
16. Records Search(es): A literature review was conducted prior to the emergency cultural resource inventory, see table below. There are 22 previously recorded sites are located within 1.0 mi of the project area [see Appendix A (for agency use only)]. No sites within 1.0 mi of the project area are listed on the National Register of Historic Places (NRHP) or New Mexico State Register of Cultural Properties (SRCP). Nineteen previous surveys were conducted between 1980 and 2017 within 0.25 mi of the project area [see Appendix B (for agency use only)]. Two surveys intersect the current project NMCRI 130066 (performed by Cindy Bunker of WCRM) and NMCRI 124773 (performed by La Plata Archaeological Consultants) (Bunker 2014; Fuller 2012). The 2014 survey was performed by WCRM for the LOGOS Resources Proposed Heros 003H Well Pad which later became the Enduring Resources Chaco 2308 3L 405H well pad. The BLM-FFO designated Lybrook Fossil Area of Critical Environmental Concern (ACEC) is located 0.3 miles south of the project area. According to Van Valkenburgh (1974), no place sacred to the Navajo is located in the vicinity of the project area. Searches of the online BLM General Land Office (GLO) patent records and cadastral survey plat maps were conducted on August 30, 2020 by Michael Proper [see Appendix C (for agency use only)]. The GLO records were used to determine whether lands within the cleanup project area are associated with events that have made a significant contribution to the broad patterns of our history (NRHP Criterion <i>a</i>) and/or were associated with the lives of significant persons in our past (NRHP Criterion <i>b</i>). In addition, the GLO cadastral survey plat maps were examined for features that may be of historical significance; no military patents or historic features, including roads, were present within the project area on the 1882 maps (USDOI, BLM 1882) or the 1950 map (USDOI, BLM 1950). Bunker, Cindy J. 2014 <i>A Cultural Resource Survey of LOGOS Resources Proposed Heros 003H Well Pad, Access Road, and Pipeline, San Juan County, New Mexico.</i> Report No. WCRM(F)1287. Western Cultural Resource Management Inc., Farmington, New Mexico. (NMCRI 130066) Fuller, Steven 2012a <i>A Cultural Resources Survey of WPX Energy Production LLC's Lybrook 23-8-4 Number 102H Well Pad and Access Road, San Juan County, New Mexico.</i> Report No. LAC 2012-29f. La Plata Archaeological Consultants, Dolores, Colorado. (NMCRI No. 124773)												

16. Records Search(es) (continued):

United States Department of Interior, Bureau of Land Management (USDOI, BLM)

1882 Plat Map for Township 23 North, Range 8 West, New Mexico Meridian. Electronic document, General Land Office Online Records Automation Website, www.glorerecords.blm.gov, accessed August 30, 2020.

1950 Plat Map for Township 23 North, Range 8 West, New Mexico Meridian. Electronic document, General Land Office Online Records Automation Website, www.glorerecords.blm.gov, accessed August 30, 2020.

Van Valkenburgh, Richard F.

1974 *Navajo Sacred Places and A Short History of the Navajo People*. Garland American Indian Ethnohistory Series, Navajo Indians, 3 Vols. Garland Publishing, Inc., New York and London.

Date(s) of ARMS File Review: 8/19/2020	Name of Reviewer: Bob Estes	
Date(s) of NR/SR File Review: 8/20/2020	Name of Reviewer: Michael J. Proper	
Date(s) of Other Agency File Review: 8/18/2008	Name of Reviewer: Deborah V. Gibson	Agency: Bureau of Land Management - Farmington Field Office

17. Survey Data:

- a. Source Graphics** NAD 27 NAD 83
 USGS 7.5' (1:24,000) topo map Other topo map, Scale:
 GPS Unit Accuracy <1.0m 1-10m 10-100m >100m

b. USGS 7.5' Topographic Map Name	USGS Quad Code
Crow Mesa West, NM 1985 (provisional edition)	36107-C6

c. County: San Juan

d. Nearest City or Town: Nageezi, New Mexico

e. Legal Description:

Township (N/S)	Range (E/W)	Section	¼	¼	¼
23N	8W	3*	W½	NW¼	SW¼
23N	8W	4*	SE¼	NE¼	SE¼

* template anchored on SE corner and southern section line

Projected legal description? Yes [] , No [X] **Unplatted** []

f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.): N/A

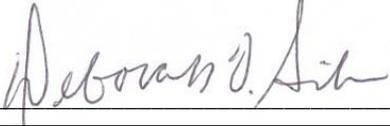
18. Survey Field Methods:

- Intensity:** 100% coverage <100% coverage
Configuration: block survey units linear survey units (l x w): other survey units (specify):
Scope: non-selective (all sites recorded) selective/thematic (selected sites recorded)
Coverage Method: systematic pedestrian coverage other method (describe)
Survey Interval (m): 15 **Crew Size:** 2 **Fieldwork Dates:** August 19 and 28, 2020
Survey Person Hours: 17 **Recording Person Hours:** 0 **Total Hours:** 17

Additional Narrative: On August 18, 2020, WCRM was notified of an accident resulting in an oil spill at the Chaco 2308 3L 405H well pad. The spill was limited to a tributary drainage channel of Kimbeto Wash (Spill A and AA), the constructed well pad (Spill B), and a proposed temporary access road to be developed in order to access the spill (Spill A and AA) and remove the contaminated sediment. The newly proposed access road corridor measures approximately 400 by 50 ft, and is entirely within the drainage bottom; it begins where the drainage crosses the original well pad access road. Using the temporary access road, the spill could then be accessed by mechanical equipment and the contaminated sediment was removed.

The total area surveyed was 7.09 acres. An initial survey of 6.72 acres (Spill A, AA, B) was performed by WCRM archaeologist Michael J. Proper on August 19, 2020 under hazy skies (smoke is from fires in Colorado) with hot temperatures; parallel transects were walked 15 m (i.e., 50 ft) apart. A cultural buffer zone was surveyed 100 ft around the affected area except in areas where previous survey had been recently completed (see NMCRIS 130066). The survey covered the proposed temporary access road, the drainage channel, and the well pad. During quality control testing of the soils in and around the spill, it was determined that additional acreage need to be decontaminated. On August 28, 2020, Whiptail requested that WCRM return to the spill area to inspect an additional 0.37 acres to ensure that all contaminated locations had been surveyed before final cleanup procedures commenced; the survey was conducted that day by Deborah Gibson and Leta Yazzie. Survey was performed on a clear sky, with moderate temperatures. During both surveys, relevant points were recorded in the field using a handheld GPS unit accurate to 1 m.

19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.): The project area is located in the badlands around Kimbeto Wash, north of Highway 550. Elevations range from 6860 to 6900 ft. Sediment is tan sandy loam and outcrops of clay, shale, and sandstone bedrock. Vegetation in the project area consists of a spare understory of sagebrush, grama grass, rabbitbrush, snakeweed, greasewood, Russian thistle, four-wing saltbush, and prickly pear cactus.

20. a. Percent Ground Visibility: 80-100 b. Condition of Survey Area (grazed, bladed, undisturbed, etc.): Energy development, livestock grazing, and recreation are activities currently taking place in the project area.	
21. CULTURAL RESOURCE FINDINGS <input type="checkbox"/> Yes, See Page 3 <input checked="" type="checkbox"/> No, Discuss Why: No cultural resources were located.	
22. Required Attachments (check all appropriate boxes): <input checked="" type="checkbox"/> USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn <input checked="" type="checkbox"/> Copy of NMCRIS Mapserver Map Check <input type="checkbox"/> LA Site Forms - new sites (<i>with sketch map & topographic map</i>) <input type="checkbox"/> LA Site Forms (update) - previously recorded & un-relocated sites (<i>first 2 pages minimum</i>) <input type="checkbox"/> Historic Cultural Property Inventory Forms <input type="checkbox"/> List and Description of isolates, if applicable (see p. 3) <input type="checkbox"/> List and Description of Collections, if applicable	23. Other Attachments: <input type="checkbox"/> Photographs and Log <input type="checkbox"/> Other Attachments (Describe):
24. I certify the information provided above is correct and accurate and meets all applicable agency standards. Principal Investigator/Responsible Archaeologist: Deborah V. Gibson Signature <u></u> Date <u>11/5/2020</u> Title (if not PI): Project Director	
25. Reviewing Agency: Reviewer's Name/Date Accepted () Rejected () Tribal Consultation (if applicable): <input type="checkbox"/> Yes <input type="checkbox"/> No	26. SHPO Reviewer's Name/Date: HPD Log #: SHPO File Location: Date sent to ARMS:

CULTURAL RESOURCE FINDINGS

[fill in appropriate section(s)]

1. NMCRIS Activity No.: 146560	2. Lead (Sponsoring) Agency: Bureau of Land Management, Farmington Field Office	3. Lead Agency Report No.:
---------------------------------------	---	-----------------------------------

SURVEY RESULTS: No cultural resources were located during survey.

Sites discovered and registered: 0
Sites discovered and NOT registered: 0
Previously recorded sites revisited (*site update form required*): 0
Previously recorded sites not relocated (*site update form required*): 0
TOTAL SITES VISITED: 0
Total isolates recorded: 0 **Non-selective isolate recording?**
Total structures recorded (*new and previously recorded, including acequias*): 0

MANAGEMENT SUMMARY: Since no historic properties were present within the spill project area, no further work is recommended and the undertaking should be allowed to proceed.

IF REPORT IS NEGATIVE YOU ARE DONE AT THIS POINT.

SURVEY LA NUMBER LOG

Sites Discovered:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

Previously recorded revisited sites:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

MONITORING LA NUMBER LOG (*site form required*)

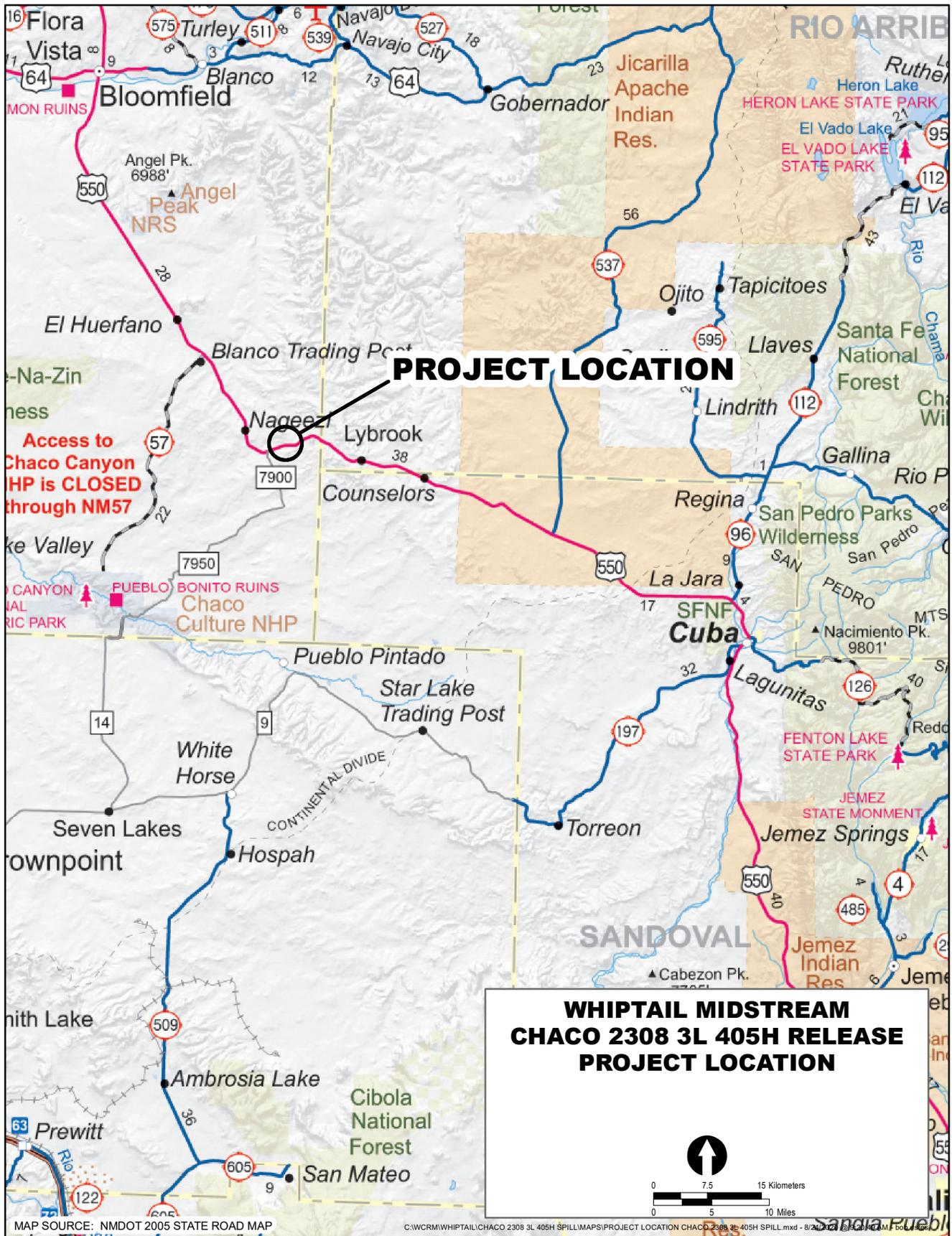
Sites Discovered (*site form required*) : **Previously recorded sites** (*Site update form required*):

LA No.	Field/Agency No.	LA No.	Field/Agency No.

Areas outside known nearby site boundaries monitored? Yes , No If no explain why:

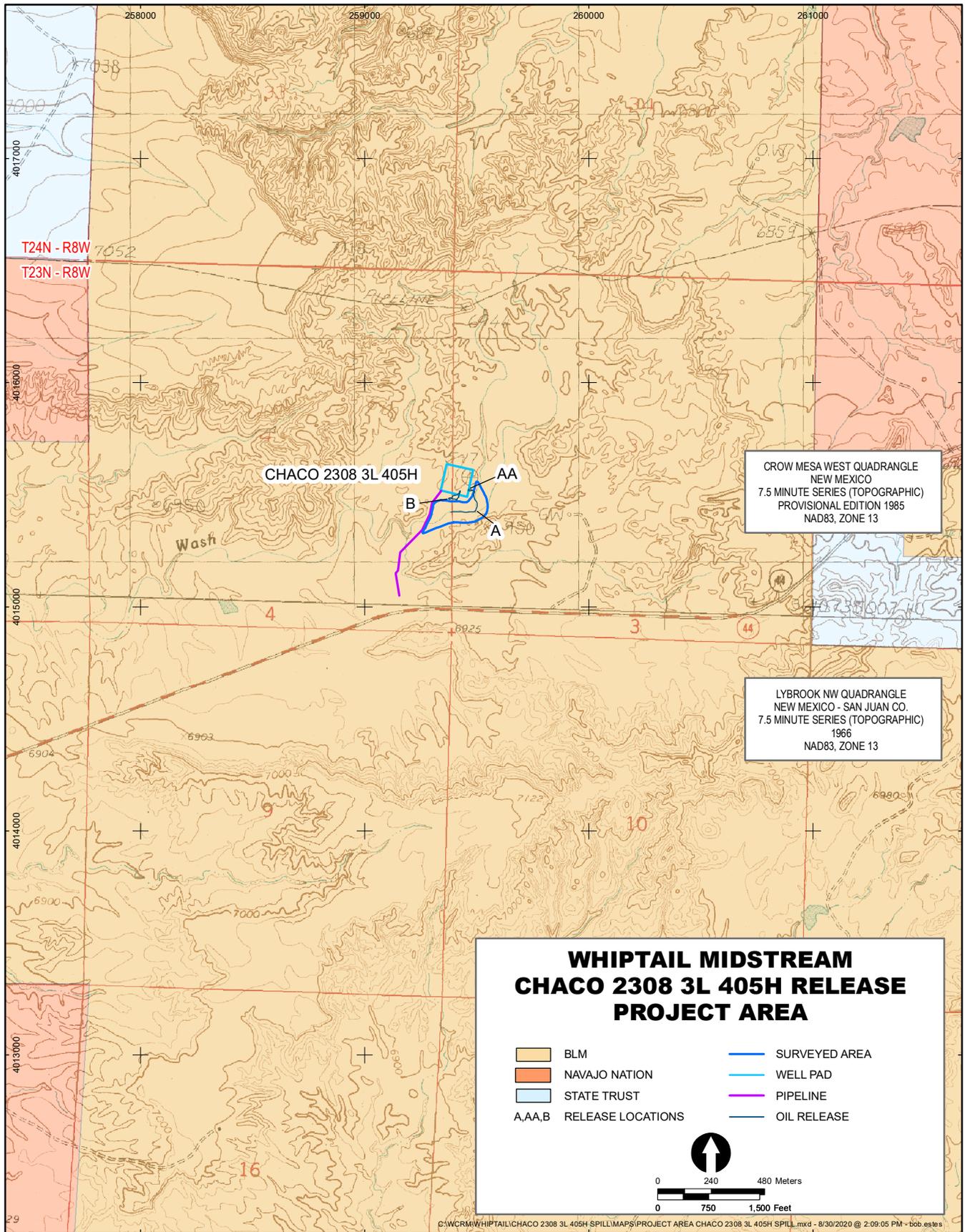
TESTING & EXCAVATION LA NUMBER LOG (*site form required*)

Tested LA number(s)	Excavated LA number(s)



MAP SOURCE: NMDOT 2005 STATE ROAD MAP

C:\WORK\WHIPTAIL\CHACO 2308 3L 405H SPILL\MAPS\PROJECT LOCATION CHACO 2308 3L 405H SPILL.mxd - 8/2/2010 10:11:11 AM



Appendix A

Previously Recorded Sites within 1.0 Mile of the Spill Project Area and Cultural Buffer Zone
(for agency use only)

Appendix B

Previous Surveys conducted within 0.25 Mile of the Spill Project Area and Cultural Buffer Zone
(for agency use only)

Appendix C

Historic GLO maps of the Spill Project Area and Cultural Buffer Zone
(for agency use only)

APPENDIX

C ANALYTICAL LABORATORY REPORTS



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 09, 2020

Stuart Hyde
LTE
848 East 2nd Avenue
Durango, CO 81301
TEL: (970) 946-1093
FAX:

RE: Chaco 2308 03L 405H

OrderNo.: 2009004

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 36 sample(s) on 9/1/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS01

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:00:00 AM

Lab ID: 2009004-001

Matrix: MEOH (SOIL)

Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	9/1/2020 4:58:56 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/1/2020 4:58:56 PM
Surr: DNOP	89.7	30.4-154		%Rec	1	9/1/2020 4:58:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	9/1/2020 10:49:17 AM
Surr: BFB	96.6	75.3-105		%Rec	1	9/1/2020 10:49:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	9/1/2020 10:49:17 AM
Toluene	ND	0.045		mg/Kg	1	9/1/2020 10:49:17 AM
Ethylbenzene	ND	0.045		mg/Kg	1	9/1/2020 10:49:17 AM
Xylenes, Total	ND	0.090		mg/Kg	1	9/1/2020 10:49:17 AM
Surr: 4-Bromofluorobenzene	99.3	80-120		%Rec	1	9/1/2020 10:49:17 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 6:53:10 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS02

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:05:00 AM

Lab ID: 2009004-002

Matrix: MEOH (SOIL)

Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/1/2020 6:11:44 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/1/2020 6:11:44 PM
Surr: DNOP	100	30.4-154		%Rec	1	9/1/2020 6:11:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	9/1/2020 11:59:49 AM
Surr: BFB	98.0	75.3-105		%Rec	1	9/1/2020 11:59:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	9/1/2020 11:59:49 AM
Toluene	ND	0.042		mg/Kg	1	9/1/2020 11:59:49 AM
Ethylbenzene	ND	0.042		mg/Kg	1	9/1/2020 11:59:49 AM
Xylenes, Total	ND	0.084		mg/Kg	1	9/1/2020 11:59:49 AM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/1/2020 11:59:49 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	59		mg/Kg	20	9/1/2020 7:55:13 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS03

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:08:00 AM

Lab ID: 2009004-003

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/1/2020 6:36:17 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/1/2020 6:36:17 PM
Surr: DNOP	93.4	30.4-154		%Rec	1	9/1/2020 6:36:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	9/1/2020 12:23:28 PM
Surr: BFB	98.9	75.3-105		%Rec	1	9/1/2020 12:23:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/1/2020 12:23:28 PM
Toluene	ND	0.051		mg/Kg	1	9/1/2020 12:23:28 PM
Ethylbenzene	ND	0.051		mg/Kg	1	9/1/2020 12:23:28 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/1/2020 12:23:28 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/1/2020 12:23:28 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	59		mg/Kg	20	9/1/2020 8:07:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS04

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:10:00 AM

Lab ID: 2009004-004

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/1/2020 7:00:39 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/1/2020 7:00:39 PM
Surr: DNOP	94.7	30.4-154		%Rec	1	9/1/2020 7:00:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	9/1/2020 12:47:02 PM
Surr: BFB	97.9	75.3-105		%Rec	1	9/1/2020 12:47:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	9/1/2020 12:47:02 PM
Toluene	ND	0.051		mg/Kg	1	9/1/2020 12:47:02 PM
Ethylbenzene	ND	0.051		mg/Kg	1	9/1/2020 12:47:02 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/1/2020 12:47:02 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/1/2020 12:47:02 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 8:20:02 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2009004

Date Reported: 9/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS05

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:15:00 AM

Lab ID: 2009004-005

Matrix: MEOH (SOIL)

Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/1/2020 7:25:08 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/1/2020 7:25:08 PM
Surr: DNOP	96.1	30.4-154		%Rec	1	9/1/2020 7:25:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg	1	9/1/2020 1:10:36 PM
Surr: BFB	96.5	75.3-105		%Rec	1	9/1/2020 1:10:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.027		mg/Kg	1	9/1/2020 1:10:36 PM
Toluene	ND	0.054		mg/Kg	1	9/1/2020 1:10:36 PM
Ethylbenzene	ND	0.054		mg/Kg	1	9/1/2020 1:10:36 PM
Xylenes, Total	ND	0.11		mg/Kg	1	9/1/2020 1:10:36 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/1/2020 1:10:36 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	59		mg/Kg	20	9/1/2020 8:32:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS06

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:19:00 AM

Lab ID: 2009004-006

Matrix: MEOH (SOIL)

Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	9/1/2020 7:49:26 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/1/2020 7:49:26 PM
Surr: DNOP	90.9	30.4-154		%Rec	1	9/1/2020 7:49:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/1/2020 1:34:07 PM
Surr: BFB	94.8	75.3-105		%Rec	1	9/1/2020 1:34:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	9/1/2020 1:34:07 PM
Toluene	ND	0.037		mg/Kg	1	9/1/2020 1:34:07 PM
Ethylbenzene	ND	0.037		mg/Kg	1	9/1/2020 1:34:07 PM
Xylenes, Total	ND	0.074		mg/Kg	1	9/1/2020 1:34:07 PM
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	9/1/2020 1:34:07 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 8:44:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS07

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:21:00 AM

Lab ID: 2009004-007

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/1/2020 8:13:53 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/1/2020 8:13:53 PM
Surr: DNOP	90.0	30.4-154		%Rec	1	9/1/2020 8:13:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	9/1/2020 1:57:37 PM
Surr: BFB	97.9	75.3-105		%Rec	1	9/1/2020 1:57:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	9/1/2020 1:57:37 PM
Toluene	ND	0.042		mg/Kg	1	9/1/2020 1:57:37 PM
Ethylbenzene	ND	0.042		mg/Kg	1	9/1/2020 1:57:37 PM
Xylenes, Total	ND	0.085		mg/Kg	1	9/1/2020 1:57:37 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/1/2020 1:57:37 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 8:57:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2009004

Date Reported: 9/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS08

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:25:00 AM

Lab ID: 2009004-008

Matrix: MEOH (SOIL)

Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/1/2020 8:38:16 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/1/2020 8:38:16 PM
Surr: DNOP	89.3	30.4-154		%Rec	1	9/1/2020 8:38:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	9/1/2020 2:21:18 PM
Surr: BFB	98.0	75.3-105		%Rec	1	9/1/2020 2:21:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.022		mg/Kg	1	9/1/2020 2:21:18 PM
Toluene	ND	0.044		mg/Kg	1	9/1/2020 2:21:18 PM
Ethylbenzene	ND	0.044		mg/Kg	1	9/1/2020 2:21:18 PM
Xylenes, Total	ND	0.089		mg/Kg	1	9/1/2020 2:21:18 PM
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	9/1/2020 2:21:18 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 9:09:40 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS09

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:30:00 AM

Lab ID: 2009004-009

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/1/2020 9:02:39 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/1/2020 9:02:39 PM
Surr: DNOP	91.5	30.4-154		%Rec	1	9/1/2020 9:02:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/1/2020 2:44:52 PM
Surr: BFB	93.5	75.3-105		%Rec	1	9/1/2020 2:44:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	9/1/2020 2:44:52 PM
Toluene	ND	0.040		mg/Kg	1	9/1/2020 2:44:52 PM
Ethylbenzene	ND	0.040		mg/Kg	1	9/1/2020 2:44:52 PM
Xylenes, Total	ND	0.081		mg/Kg	1	9/1/2020 2:44:52 PM
Surr: 4-Bromofluorobenzene	96.7	80-120		%Rec	1	9/1/2020 2:44:52 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 9:22:04 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS10

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:38:00 AM

Lab ID: 2009004-010

Matrix: MEOH (SOIL)

Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/1/2020 9:27:14 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/1/2020 9:27:14 PM
Surr: DNOP	89.9	30.4-154		%Rec	1	9/1/2020 9:27:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/1/2020 3:55:22 PM
Surr: BFB	97.3	75.3-105		%Rec	1	9/1/2020 3:55:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/1/2020 3:55:22 PM
Toluene	ND	0.049		mg/Kg	1	9/1/2020 3:55:22 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/1/2020 3:55:22 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/1/2020 3:55:22 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/1/2020 3:55:22 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 9:59:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS11

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:42:00 AM

Lab ID: 2009004-011

Matrix: MEOH (SOIL)

Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/1/2020 9:51:38 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/1/2020 9:51:38 PM
Surr: DNOP	91.4	30.4-154		%Rec	1	9/1/2020 9:51:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/1/2020 4:18:52 PM
Surr: BFB	95.9	75.3-105		%Rec	1	9/1/2020 4:18:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/1/2020 4:18:52 PM
Toluene	ND	0.046		mg/Kg	1	9/1/2020 4:18:52 PM
Ethylbenzene	ND	0.046		mg/Kg	1	9/1/2020 4:18:52 PM
Xylenes, Total	ND	0.093		mg/Kg	1	9/1/2020 4:18:52 PM
Surr: 4-Bromofluorobenzene	99.1	80-120		%Rec	1	9/1/2020 4:18:52 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	59		mg/Kg	20	9/1/2020 10:11:41 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS12

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:46:00 AM

Lab ID: 2009004-012

Matrix: MEOH (SOIL)

Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/1/2020 10:16:02 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/1/2020 10:16:02 PM
Surr: DNOP	93.6	30.4-154		%Rec	1	9/1/2020 10:16:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	9/1/2020 4:42:21 PM
Surr: BFB	99.0	75.3-105		%Rec	1	9/1/2020 4:42:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	9/1/2020 4:42:21 PM
Toluene	ND	0.042		mg/Kg	1	9/1/2020 4:42:21 PM
Ethylbenzene	ND	0.042		mg/Kg	1	9/1/2020 4:42:21 PM
Xylenes, Total	ND	0.084		mg/Kg	1	9/1/2020 4:42:21 PM
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	9/1/2020 4:42:21 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	61		mg/Kg	20	9/1/2020 10:24:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS13

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:50:00 AM

Lab ID: 2009004-013

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/1/2020 10:40:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/1/2020 10:40:27 PM
Surr: DNOP	90.4	30.4-154		%Rec	1	9/1/2020 10:40:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	9/1/2020 5:05:51 PM
Surr: BFB	98.6	75.3-105		%Rec	1	9/1/2020 5:05:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	9/1/2020 5:05:51 PM
Toluene	ND	0.035		mg/Kg	1	9/1/2020 5:05:51 PM
Ethylbenzene	ND	0.035		mg/Kg	1	9/1/2020 5:05:51 PM
Xylenes, Total	ND	0.071		mg/Kg	1	9/1/2020 5:05:51 PM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/1/2020 5:05:51 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 10:36:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS14

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:55:00 AM

Lab ID: 2009004-014

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/1/2020 11:04:47 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/1/2020 11:04:47 PM
Surr: DNOP	91.6	30.4-154		%Rec	1	9/1/2020 11:04:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	9/1/2020 5:29:23 PM
Surr: BFB	96.8	75.3-105		%Rec	1	9/1/2020 5:29:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	9/1/2020 5:29:23 PM
Toluene	ND	0.038		mg/Kg	1	9/1/2020 5:29:23 PM
Ethylbenzene	ND	0.038		mg/Kg	1	9/1/2020 5:29:23 PM
Xylenes, Total	ND	0.075		mg/Kg	1	9/1/2020 5:29:23 PM
Surr: 4-Bromofluorobenzene	99.4	80-120		%Rec	1	9/1/2020 5:29:23 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 10:48:54 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS15

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 10:57:00 AM

Lab ID: 2009004-015

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	24	9.5		mg/Kg	1	9/1/2020 11:29:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/1/2020 11:29:09 PM
Surr: DNOP	76.2	30.4-154		%Rec	1	9/1/2020 11:29:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.6		mg/Kg	1	9/1/2020 5:52:51 PM
Surr: BFB	95.4	75.3-105		%Rec	1	9/1/2020 5:52:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.028		mg/Kg	1	9/1/2020 5:52:51 PM
Toluene	ND	0.056		mg/Kg	1	9/1/2020 5:52:51 PM
Ethylbenzene	ND	0.056		mg/Kg	1	9/1/2020 5:52:51 PM
Xylenes, Total	ND	0.11		mg/Kg	1	9/1/2020 5:52:51 PM
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	9/1/2020 5:52:51 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	250	60		mg/Kg	20	9/1/2020 11:01:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS16

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 11:00:00 AM

Lab ID: 2009004-016

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/1/2020 11:53:21 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/1/2020 11:53:21 PM
Surr: DNOP	75.9	30.4-154		%Rec	1	9/1/2020 11:53:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	9/1/2020 6:16:17 PM
Surr: BFB	97.4	75.3-105		%Rec	1	9/1/2020 6:16:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	9/1/2020 6:16:17 PM
Toluene	ND	0.038		mg/Kg	1	9/1/2020 6:16:17 PM
Ethylbenzene	ND	0.038		mg/Kg	1	9/1/2020 6:16:17 PM
Xylenes, Total	ND	0.075		mg/Kg	1	9/1/2020 6:16:17 PM
Surr: 4-Bromofluorobenzene	97.1	80-120		%Rec	1	9/1/2020 6:16:17 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 11:13:44 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash FS17

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 11:05:00 AM

Lab ID: 2009004-017

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	48	9.6		mg/Kg	1	9/2/2020 12:17:47 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/2/2020 12:17:47 AM
Surr: DNOP	87.8	30.4-154		%Rec	1	9/2/2020 12:17:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/1/2020 6:39:44 PM
Surr: BFB	96.9	75.3-105		%Rec	1	9/1/2020 6:39:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	9/1/2020 6:39:44 PM
Toluene	ND	0.036		mg/Kg	1	9/1/2020 6:39:44 PM
Ethylbenzene	ND	0.036		mg/Kg	1	9/1/2020 6:39:44 PM
Xylenes, Total	ND	0.072		mg/Kg	1	9/1/2020 6:39:44 PM
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	9/1/2020 6:39:44 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	150	60		mg/Kg	20	9/1/2020 11:26:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW01

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 11:20:00 AM

Lab ID: 2009004-018

Matrix: MEOH (SOIL)

Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/2/2020 1:06:23 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/2/2020 1:06:23 AM
Surr: DNOP	70.3	30.4-154		%Rec	1	9/2/2020 1:06:23 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg	1	9/1/2020 7:03:08 PM
Surr: BFB	97.5	75.3-105		%Rec	1	9/1/2020 7:03:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.026		mg/Kg	1	9/1/2020 7:03:08 PM
Toluene	ND	0.052		mg/Kg	1	9/1/2020 7:03:08 PM
Ethylbenzene	ND	0.052		mg/Kg	1	9/1/2020 7:03:08 PM
Xylenes, Total	ND	0.10		mg/Kg	1	9/1/2020 7:03:08 PM
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	1	9/1/2020 7:03:08 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 11:38:34 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW02

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 11:24:00 AM

Lab ID: 2009004-019

Matrix: MEOH (SOIL)

Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/2/2020 1:30:34 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/2/2020 1:30:34 AM
Surr: DNOP	79.0	30.4-154		%Rec	1	9/2/2020 1:30:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/1/2020 7:26:29 PM
Surr: BFB	94.9	75.3-105		%Rec	1	9/1/2020 7:26:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	9/1/2020 7:26:29 PM
Toluene	ND	0.041		mg/Kg	1	9/1/2020 7:26:29 PM
Ethylbenzene	ND	0.041		mg/Kg	1	9/1/2020 7:26:29 PM
Xylenes, Total	ND	0.081		mg/Kg	1	9/1/2020 7:26:29 PM
Surr: 4-Bromofluorobenzene	98.3	80-120		%Rec	1	9/1/2020 7:26:29 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/1/2020 11:50:58 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2009004

Date Reported: 9/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW03

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 11:29:00 AM

Lab ID: 2009004-020

Matrix: MEOH (SOIL) Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/2/2020 1:55:09 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/2/2020 1:55:09 AM
Surr: DNOP	68.9	30.4-154		%Rec	1	9/2/2020 1:55:09 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	59		mg/Kg	20	9/2/2020 12:28:12 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	9/1/2020 4:09:03 PM
Toluene	ND	0.047		mg/Kg	1	9/1/2020 4:09:03 PM
Ethylbenzene	ND	0.047		mg/Kg	1	9/1/2020 4:09:03 PM
Xylenes, Total	ND	0.094		mg/Kg	1	9/1/2020 4:09:03 PM
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%Rec	1	9/1/2020 4:09:03 PM
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	9/1/2020 4:09:03 PM
Surr: Dibromofluoromethane	94.9	70-130		%Rec	1	9/1/2020 4:09:03 PM
Surr: Toluene-d8	102	70-130		%Rec	1	9/1/2020 4:09:03 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/1/2020 4:09:03 PM
Surr: BFB	93.7	70-130		%Rec	1	9/1/2020 4:09:03 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW04

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 11:32:00 AM

Lab ID: 2009004-021

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	33	9.6		mg/Kg	1	9/2/2020 3:07:50 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/2/2020 3:07:50 AM
Surr: DNOP	50.8	30.4-154		%Rec	1	9/2/2020 3:07:50 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 1:30:14 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.027		mg/Kg	1	9/1/2020 5:37:42 PM
Toluene	ND	0.054		mg/Kg	1	9/1/2020 5:37:42 PM
Ethylbenzene	ND	0.054		mg/Kg	1	9/1/2020 5:37:42 PM
Xylenes, Total	ND	0.11		mg/Kg	1	9/1/2020 5:37:42 PM
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%Rec	1	9/1/2020 5:37:42 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	9/1/2020 5:37:42 PM
Surr: Dibromofluoromethane	96.1	70-130		%Rec	1	9/1/2020 5:37:42 PM
Surr: Toluene-d8	103	70-130		%Rec	1	9/1/2020 5:37:42 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.4		mg/Kg	1	9/1/2020 5:37:42 PM
Surr: BFB	96.5	70-130		%Rec	1	9/1/2020 5:37:42 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW05

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 11:35:00 AM

Lab ID: 2009004-022

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/2/2020 4:20:36 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/2/2020 4:20:36 AM
Surr: DNOP	58.4	30.4-154		%Rec	1	9/2/2020 4:20:36 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 2:07:28 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.028		mg/Kg	1	9/1/2020 7:06:05 PM
Toluene	ND	0.055		mg/Kg	1	9/1/2020 7:06:05 PM
Ethylbenzene	ND	0.055		mg/Kg	1	9/1/2020 7:06:05 PM
Xylenes, Total	ND	0.11		mg/Kg	1	9/1/2020 7:06:05 PM
Surr: 1,2-Dichloroethane-d4	94.9	70-130		%Rec	1	9/1/2020 7:06:05 PM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	9/1/2020 7:06:05 PM
Surr: Dibromofluoromethane	91.2	70-130		%Rec	1	9/1/2020 7:06:05 PM
Surr: Toluene-d8	102	70-130		%Rec	1	9/1/2020 7:06:05 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg	1	9/1/2020 7:06:05 PM
Surr: BFB	95.0	70-130		%Rec	1	9/1/2020 7:06:05 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW06

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 11:40:00 AM

Lab ID: 2009004-023

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/2/2020 4:44:46 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/2/2020 4:44:46 AM
Surr: DNOP	52.3	30.4-154		%Rec	1	9/2/2020 4:44:46 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 2:19:53 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.019		mg/Kg	1	9/1/2020 7:35:33 PM
Toluene	ND	0.037		mg/Kg	1	9/1/2020 7:35:33 PM
Ethylbenzene	ND	0.037		mg/Kg	1	9/1/2020 7:35:33 PM
Xylenes, Total	ND	0.075		mg/Kg	1	9/1/2020 7:35:33 PM
Surr: 1,2-Dichloroethane-d4	94.0	70-130		%Rec	1	9/1/2020 7:35:33 PM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	9/1/2020 7:35:33 PM
Surr: Dibromofluoromethane	94.1	70-130		%Rec	1	9/1/2020 7:35:33 PM
Surr: Toluene-d8	104	70-130		%Rec	1	9/1/2020 7:35:33 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/1/2020 7:35:33 PM
Surr: BFB	97.8	70-130		%Rec	1	9/1/2020 7:35:33 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW07

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 11:45:00 AM

Lab ID: 2009004-024

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/2/2020 5:08:56 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/2/2020 5:08:56 AM
Surr: DNOP	64.6	30.4-154		%Rec	1	9/2/2020 5:08:56 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 2:57:07 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.019		mg/Kg	1	9/1/2020 8:05:09 PM
Toluene	ND	0.039		mg/Kg	1	9/1/2020 8:05:09 PM
Ethylbenzene	ND	0.039		mg/Kg	1	9/1/2020 8:05:09 PM
Xylenes, Total	ND	0.078		mg/Kg	1	9/1/2020 8:05:09 PM
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%Rec	1	9/1/2020 8:05:09 PM
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	9/1/2020 8:05:09 PM
Surr: Dibromofluoromethane	96.1	70-130		%Rec	1	9/1/2020 8:05:09 PM
Surr: Toluene-d8	104	70-130		%Rec	1	9/1/2020 8:05:09 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	9/1/2020 8:05:09 PM
Surr: BFB	97.3	70-130		%Rec	1	9/1/2020 8:05:09 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW08

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 11:50:00 AM

Lab ID: 2009004-025

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	1200	90		mg/Kg	10	9/2/2020 5:33:02 AM
Motor Oil Range Organics (MRO)	910	450		mg/Kg	10	9/2/2020 5:33:02 AM
Surr: DNOP	0	30.4-154	S	%Rec	10	9/2/2020 5:33:02 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	490	60		mg/Kg	20	9/2/2020 3:09:32 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.10	D	mg/Kg	5	9/1/2020 8:34:37 PM
Toluene	ND	0.21	D	mg/Kg	5	9/1/2020 8:34:37 PM
Ethylbenzene	ND	0.21	D	mg/Kg	5	9/1/2020 8:34:37 PM
Xylenes, Total	ND	0.41	D	mg/Kg	5	9/1/2020 8:34:37 PM
Surr: 1,2-Dichloroethane-d4	100	70-130	D	%Rec	5	9/1/2020 8:34:37 PM
Surr: 4-Bromofluorobenzene	99.7	70-130	D	%Rec	5	9/1/2020 8:34:37 PM
Surr: Dibromofluoromethane	95.2	70-130	D	%Rec	5	9/1/2020 8:34:37 PM
Surr: Toluene-d8	104	70-130	D	%Rec	5	9/1/2020 8:34:37 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	21	D	mg/Kg	5	9/1/2020 8:34:37 PM
Surr: BFB	97.6	70-130	D	%Rec	5	9/1/2020 8:34:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW09

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 11:54:00 AM

Lab ID: 2009004-026

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	17	9.1		mg/Kg	1	9/2/2020 5:57:09 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	9/2/2020 5:57:09 AM
Surr: DNOP	74.1	30.4-154		%Rec	1	9/2/2020 5:57:09 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 3:21:56 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.021		mg/Kg	1	9/1/2020 9:03:59 PM
Toluene	ND	0.043		mg/Kg	1	9/1/2020 9:03:59 PM
Ethylbenzene	ND	0.043		mg/Kg	1	9/1/2020 9:03:59 PM
Xylenes, Total	ND	0.085		mg/Kg	1	9/1/2020 9:03:59 PM
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%Rec	1	9/1/2020 9:03:59 PM
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	9/1/2020 9:03:59 PM
Surr: Dibromofluoromethane	93.0	70-130		%Rec	1	9/1/2020 9:03:59 PM
Surr: Toluene-d8	102	70-130		%Rec	1	9/1/2020 9:03:59 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	9/1/2020 9:03:59 PM
Surr: BFB	96.4	70-130		%Rec	1	9/1/2020 9:03:59 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW10

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 12:00:00 PM

Lab ID: 2009004-027

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	100	9.4		mg/Kg	1	9/2/2020 6:21:15 AM
Motor Oil Range Organics (MRO)	160	47		mg/Kg	1	9/2/2020 6:21:15 AM
Surr: DNOP	91.5	30.4-154		%Rec	1	9/2/2020 6:21:15 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	180	59		mg/Kg	20	9/2/2020 3:34:20 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.019		mg/Kg	1	9/1/2020 9:33:31 PM
Toluene	ND	0.039		mg/Kg	1	9/1/2020 9:33:31 PM
Ethylbenzene	ND	0.039		mg/Kg	1	9/1/2020 9:33:31 PM
Xylenes, Total	ND	0.077		mg/Kg	1	9/1/2020 9:33:31 PM
Surr: 1,2-Dichloroethane-d4	97.5	70-130		%Rec	1	9/1/2020 9:33:31 PM
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	9/1/2020 9:33:31 PM
Surr: Dibromofluoromethane	95.4	70-130		%Rec	1	9/1/2020 9:33:31 PM
Surr: Toluene-d8	105	70-130		%Rec	1	9/1/2020 9:33:31 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	9/1/2020 9:33:31 PM
Surr: BFB	98.6	70-130		%Rec	1	9/1/2020 9:33:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW11

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 12:04:00 PM

Lab ID: 2009004-028

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/2/2020 6:45:39 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/2/2020 6:45:39 AM
Surr: DNOP	70.2	30.4-154		%Rec	1	9/2/2020 6:45:39 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	68	60		mg/Kg	20	9/2/2020 3:46:44 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	9/1/2020 10:02:52 PM
Toluene	ND	0.039		mg/Kg	1	9/1/2020 10:02:52 PM
Ethylbenzene	ND	0.039		mg/Kg	1	9/1/2020 10:02:52 PM
Xylenes, Total	ND	0.079		mg/Kg	1	9/1/2020 10:02:52 PM
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%Rec	1	9/1/2020 10:02:52 PM
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	9/1/2020 10:02:52 PM
Surr: Dibromofluoromethane	94.6	70-130		%Rec	1	9/1/2020 10:02:52 PM
Surr: Toluene-d8	105	70-130		%Rec	1	9/1/2020 10:02:52 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	9/1/2020 10:02:52 PM
Surr: BFB	97.1	70-130		%Rec	1	9/1/2020 10:02:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2009004

Date Reported: 9/9/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW12

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 12:10:00 PM

Lab ID: 2009004-029

Matrix: MEOH (SOIL) Received Date: 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	9/2/2020 7:09:44 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/2/2020 7:09:44 AM
Surr: DNOP	73.9	30.4-154		%Rec	1	9/2/2020 7:09:44 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 3:59:08 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.022		mg/Kg	1	9/1/2020 10:32:28 PM
Toluene	ND	0.045		mg/Kg	1	9/1/2020 10:32:28 PM
Ethylbenzene	ND	0.045		mg/Kg	1	9/1/2020 10:32:28 PM
Xylenes, Total	ND	0.089		mg/Kg	1	9/1/2020 10:32:28 PM
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%Rec	1	9/1/2020 10:32:28 PM
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	9/1/2020 10:32:28 PM
Surr: Dibromofluoromethane	98.9	70-130		%Rec	1	9/1/2020 10:32:28 PM
Surr: Toluene-d8	103	70-130		%Rec	1	9/1/2020 10:32:28 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	9/1/2020 10:32:28 PM
Surr: BFB	95.7	70-130		%Rec	1	9/1/2020 10:32:28 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW13

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 12:15:00 PM

Lab ID: 2009004-030

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	9/2/2020 7:35:14 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/2/2020 7:35:14 AM
Surr: DNOP	70.4	30.4-154		%Rec	1	9/2/2020 7:35:14 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 4:11:32 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.021		mg/Kg	1	9/1/2020 11:01:53 PM
Toluene	ND	0.041		mg/Kg	1	9/1/2020 11:01:53 PM
Ethylbenzene	ND	0.041		mg/Kg	1	9/1/2020 11:01:53 PM
Xylenes, Total	ND	0.083		mg/Kg	1	9/1/2020 11:01:53 PM
Surr: 1,2-Dichloroethane-d4	96.5	70-130		%Rec	1	9/1/2020 11:01:53 PM
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	9/1/2020 11:01:53 PM
Surr: Dibromofluoromethane	94.9	70-130		%Rec	1	9/1/2020 11:01:53 PM
Surr: Toluene-d8	104	70-130		%Rec	1	9/1/2020 11:01:53 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/1/2020 11:01:53 PM
Surr: BFB	96.8	70-130		%Rec	1	9/1/2020 11:01:53 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW14

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 12:20:00 PM

Lab ID: 2009004-031

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/2/2020 7:59:05 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/2/2020 7:59:05 AM
Surr: DNOP	78.6	30.4-154		%Rec	1	9/2/2020 7:59:05 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 4:23:57 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	9/1/2020 11:31:21 PM
Toluene	ND	0.046		mg/Kg	1	9/1/2020 11:31:21 PM
Ethylbenzene	ND	0.046		mg/Kg	1	9/1/2020 11:31:21 PM
Xylenes, Total	ND	0.093		mg/Kg	1	9/1/2020 11:31:21 PM
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%Rec	1	9/1/2020 11:31:21 PM
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	9/1/2020 11:31:21 PM
Surr: Dibromofluoromethane	94.6	70-130		%Rec	1	9/1/2020 11:31:21 PM
Surr: Toluene-d8	104	70-130		%Rec	1	9/1/2020 11:31:21 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/1/2020 11:31:21 PM
Surr: BFB	93.8	70-130		%Rec	1	9/1/2020 11:31:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW15

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 12:25:00 PM

Lab ID: 2009004-032

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/2/2020 8:23:10 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/2/2020 8:23:10 AM
Surr: DNOP	79.7	30.4-154		%Rec	1	9/2/2020 8:23:10 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	61		mg/Kg	20	9/2/2020 4:36:22 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.021		mg/Kg	1	9/2/2020 12:00:52 AM
Toluene	ND	0.041		mg/Kg	1	9/2/2020 12:00:52 AM
Ethylbenzene	ND	0.041		mg/Kg	1	9/2/2020 12:00:52 AM
Xylenes, Total	ND	0.082		mg/Kg	1	9/2/2020 12:00:52 AM
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	9/2/2020 12:00:52 AM
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	9/2/2020 12:00:52 AM
Surr: Dibromofluoromethane	96.9	70-130		%Rec	1	9/2/2020 12:00:52 AM
Surr: Toluene-d8	104	70-130		%Rec	1	9/2/2020 12:00:52 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/2/2020 12:00:52 AM
Surr: BFB	96.9	70-130		%Rec	1	9/2/2020 12:00:52 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW16

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 12:30:00 PM

Lab ID: 2009004-033

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/2/2020 8:47:13 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/2/2020 8:47:13 AM
Surr: DNOP	77.4	30.4-154		%Rec	1	9/2/2020 8:47:13 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 4:48:46 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	9/2/2020 12:30:19 AM
Toluene	ND	0.046		mg/Kg	1	9/2/2020 12:30:19 AM
Ethylbenzene	ND	0.046		mg/Kg	1	9/2/2020 12:30:19 AM
Xylenes, Total	ND	0.093		mg/Kg	1	9/2/2020 12:30:19 AM
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%Rec	1	9/2/2020 12:30:19 AM
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	9/2/2020 12:30:19 AM
Surr: Dibromofluoromethane	96.1	70-130		%Rec	1	9/2/2020 12:30:19 AM
Surr: Toluene-d8	105	70-130		%Rec	1	9/2/2020 12:30:19 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/2/2020 12:30:19 AM
Surr: BFB	96.3	70-130		%Rec	1	9/2/2020 12:30:19 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW17

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 12:35:00 PM

Lab ID: 2009004-034

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	14	9.4		mg/Kg	1	9/2/2020 9:11:23 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/2/2020 9:11:23 AM
Surr: DNOP	77.8	30.4-154		%Rec	1	9/2/2020 9:11:23 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 5:25:59 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	9/2/2020 12:59:50 AM
Toluene	ND	0.041		mg/Kg	1	9/2/2020 12:59:50 AM
Ethylbenzene	ND	0.041		mg/Kg	1	9/2/2020 12:59:50 AM
Xylenes, Total	ND	0.081		mg/Kg	1	9/2/2020 12:59:50 AM
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	9/2/2020 12:59:50 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/2/2020 12:59:50 AM
Surr: Dibromofluoromethane	97.0	70-130		%Rec	1	9/2/2020 12:59:50 AM
Surr: Toluene-d8	104	70-130		%Rec	1	9/2/2020 12:59:50 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/2/2020 12:59:50 AM
Surr: BFB	98.3	70-130		%Rec	1	9/2/2020 12:59:50 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SP01

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 4:00:00 PM

Lab ID: 2009004-035

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	12	9.6		mg/Kg	1	9/2/2020 9:35:29 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/2/2020 9:35:29 AM
Surr: DNOP	85.7	30.4-154		%Rec	1	9/2/2020 9:35:29 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 5:38:23 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.019		mg/Kg	1	9/2/2020 3:27:16 AM
Toluene	ND	0.038		mg/Kg	1	9/2/2020 3:27:16 AM
Ethylbenzene	ND	0.038		mg/Kg	1	9/2/2020 3:27:16 AM
Xylenes, Total	ND	0.077		mg/Kg	1	9/2/2020 3:27:16 AM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	9/2/2020 3:27:16 AM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	9/2/2020 3:27:16 AM
Surr: Dibromofluoromethane	100	70-130		%Rec	1	9/2/2020 3:27:16 AM
Surr: Toluene-d8	104	70-130		%Rec	1	9/2/2020 3:27:16 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	9/2/2020 3:27:16 AM
Surr: BFB	94.3	70-130		%Rec	1	9/2/2020 3:27:16 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009004**

Date Reported: **9/9/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SP02

Project: Chaco 2308 03L 405H

Collection Date: 8/31/2020 4:15:00 PM

Lab ID: 2009004-036

Matrix: MEOH (SOIL) **Received Date:** 9/1/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	9.5	8.7		mg/Kg	1	9/2/2020 9:59:39 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	9/2/2020 9:59:39 AM
Surr: DNOP	87.0	30.4-154		%Rec	1	9/2/2020 9:59:39 AM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/2/2020 5:50:47 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.018		mg/Kg	1	9/2/2020 3:56:55 AM
Toluene	ND	0.036		mg/Kg	1	9/2/2020 3:56:55 AM
Ethylbenzene	ND	0.036		mg/Kg	1	9/2/2020 3:56:55 AM
Xylenes, Total	ND	0.072		mg/Kg	1	9/2/2020 3:56:55 AM
Surr: 1,2-Dichloroethane-d4	97.8	70-130		%Rec	1	9/2/2020 3:56:55 AM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	9/2/2020 3:56:55 AM
Surr: Dibromofluoromethane	94.8	70-130		%Rec	1	9/2/2020 3:56:55 AM
Surr: Toluene-d8	104	70-130		%Rec	1	9/2/2020 3:56:55 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/2/2020 3:56:55 AM
Surr: BFB	94.8	70-130		%Rec	1	9/2/2020 3:56:55 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009004

09-Sep-20

Client: LTE
Project: Chaco 2308 03L 405H

Sample ID: MB-54869	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54869	RunNo: 71522								
Prep Date: 9/1/2020	Analysis Date: 9/1/2020	SeqNo: 2499684	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54869	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54869	RunNo: 71522								
Prep Date: 9/1/2020	Analysis Date: 9/1/2020	SeqNo: 2499685	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Sample ID: MB-54870	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54870	RunNo: 71522								
Prep Date: 9/1/2020	Analysis Date: 9/2/2020	SeqNo: 2499716	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54870	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54870	RunNo: 71522								
Prep Date: 9/1/2020	Analysis Date: 9/2/2020	SeqNo: 2499717	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009004

09-Sep-20

Client: LTE
Project: Chaco 2308 03L 405H

Sample ID: 2009004-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: Wash FS01	Batch ID: 54854	RunNo: 71526								
Prep Date: 9/1/2020	Analysis Date: 9/1/2020	SeqNo: 2499210	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.1	45.70	0	98.3	47.4	136			
Surr: DNOP	3.9		4.570		86.3	30.4	154			

Sample ID: 2009004-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: Wash FS01	Batch ID: 54854	RunNo: 71526								
Prep Date: 9/1/2020	Analysis Date: 9/1/2020	SeqNo: 2499211	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.8	48.92	0	99.0	47.4	136	7.51	43.4	
Surr: DNOP	4.3		4.892		86.9	30.4	154	0	0	

Sample ID: 2009004-021AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: Wash SW04	Batch ID: 54857	RunNo: 71526								
Prep Date: 9/1/2020	Analysis Date: 9/2/2020	SeqNo: 2499232	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	67	9.7	48.64	32.72	70.9	47.4	136			
Surr: DNOP	2.0		4.864		41.7	30.4	154			

Sample ID: 2009004-021AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: Wash SW04	Batch ID: 54857	RunNo: 71526								
Prep Date: 9/1/2020	Analysis Date: 9/2/2020	SeqNo: 2499233	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	130	9.5	47.30	32.72	208	47.4	136	64.6	43.4	RS
Surr: DNOP	2.6		4.730		55.4	30.4	154	0	0	

Sample ID: LCS-54854	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54854	RunNo: 71526								
Prep Date: 9/1/2020	Analysis Date: 9/1/2020	SeqNo: 2499249	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.0	70	130			
Surr: DNOP	4.2		5.000		84.5	30.4	154			

Sample ID: LCS-54857	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54857	RunNo: 71526								
Prep Date: 9/1/2020	Analysis Date: 9/2/2020	SeqNo: 2499250	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009004

09-Sep-20

Client: LTE
Project: Chaco 2308 03L 405H

Sample ID: LCS-54857	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54857	RunNo: 71526								
Prep Date: 9/1/2020	Analysis Date: 9/2/2020	SeqNo: 2499250	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.0	70	130			
Surr: DNOP	3.0		5.000		60.6	30.4	154			

Sample ID: MB-54854	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54854	RunNo: 71526								
Prep Date: 9/1/2020	Analysis Date: 9/1/2020	SeqNo: 2499251	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.0	30.4	154			

Sample ID: MB-54857	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54857	RunNo: 71526								
Prep Date: 9/1/2020	Analysis Date: 9/2/2020	SeqNo: 2499252	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	6.8		10.00		68.3	30.4	154			

Sample ID: LCS-54907	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 54907	RunNo: 71526								
Prep Date: 9/2/2020	Analysis Date: 9/4/2020	SeqNo: 2502752	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		119	30.4	154			

Sample ID: MB-54907	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54907	RunNo: 71526								
Prep Date: 9/2/2020	Analysis Date: 9/4/2020	SeqNo: 2502753	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		126	30.4	154			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009004

09-Sep-20

Client: LTE
Project: Chaco 2308 03L 405H

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: G71524		RunNo: 71524							
Prep Date:	Analysis Date: 9/1/2020		SeqNo: 2498901		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.0	75.3	105			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: G71524		RunNo: 71524							
Prep Date:	Analysis Date: 9/1/2020		SeqNo: 2498902		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	25.00	0	76.8	72.5	106			
Surr: BFB	1100		1000		105	75.3	105			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009004

09-Sep-20

Client: LTE
Project: Chaco 2308 03L 405H

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R71524	RunNo: 71524								
Prep Date:	Analysis Date: 9/1/2020	SeqNo: 2498939			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	80	120			

Sample ID: 100ng btex lcsb	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R71524	RunNo: 71524								
Prep Date:	Analysis Date: 9/1/2020	SeqNo: 2498940			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.3	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID: 2009004-001ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: Wash FS01	Batch ID: R71524	RunNo: 71524								
Prep Date:	Analysis Date: 9/1/2020	SeqNo: 2498961			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.022	0.8985	0	96.8	76.3	120			
Toluene	0.87	0.045	0.8985	0	96.8	78.5	120			
Ethylbenzene	0.88	0.045	0.8985	0	97.5	78.1	124			
Xylenes, Total	2.6	0.090	2.695	0	97.7	79.3	125			
Surr: 4-Bromofluorobenzene	0.96		0.8985		106	80	120			

Sample ID: 2009004-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: Wash FS01	Batch ID: R71524	RunNo: 71524								
Prep Date:	Analysis Date: 9/1/2020	SeqNo: 2498962			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.022	0.8985	0	96.0	76.3	120	0.820	20	
Toluene	0.87	0.045	0.8985	0	96.6	78.5	120	0.217	20	
Ethylbenzene	0.88	0.045	0.8985	0	98.2	78.1	124	0.664	20	
Xylenes, Total	2.7	0.090	2.695	0	98.7	79.3	125	1.09	20	
Surr: 4-Bromofluorobenzene	0.98		0.8985		109	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009004

09-Sep-20

Client: LTE
Project: Chaco 2308 03L 405H

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: R71559	RunNo: 71559								
Prep Date:	Analysis Date: 9/1/2020	SeqNo: 2499776	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.7	70	130			
Toluene	1.1	0.050	1.000	0	106	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		91.8	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.4	70	130			
Surr: Dibromofluoromethane	0.45		0.5000		90.4	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

Sample ID: 2009004-020ams	SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: Wash SW03	Batch ID: R71559	RunNo: 71559								
Prep Date:	Analysis Date: 9/2/2020	SeqNo: 2499779	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.023	0.9381	0	92.3	67.9	137			
Toluene	1.0	0.047	0.9381	0	109	70	130			
Surr: 1,2-Dichloroethane-d4	0.43		0.4690		91.9	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.4690		95.6	70	130			
Surr: Dibromofluoromethane	0.44		0.4690		94.3	70	130			
Surr: Toluene-d8	0.50		0.4690		106	70	130			

Sample ID: 2009004-020amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: Wash SW03	Batch ID: R71559	RunNo: 71559								
Prep Date:	Analysis Date: 9/2/2020	SeqNo: 2499781	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.023	0.9381	0	87.0	67.9	137	5.91	20	
Toluene	0.95	0.047	0.9381	0	102	70	130	6.92	20	
Surr: 1,2-Dichloroethane-d4	0.43		0.4690		91.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.45		0.4690		96.8	70	130	0	0	
Surr: Dibromofluoromethane	0.43		0.4690		92.5	70	130	0	0	
Surr: Toluene-d8	0.48		0.4690		102	70	130	0	0	

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: R71559	RunNo: 71559								
Prep Date:	Analysis Date: 9/1/2020	SeqNo: 2499798	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009004

09-Sep-20

Client: LTE
Project: Chaco 2308 03L 405H

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: R71559		RunNo: 71559							
Prep Date:	Analysis Date: 9/1/2020		SeqNo: 2499798		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.9	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.45		0.5000		90.4	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009004

09-Sep-20

Client: LTE
Project: Chaco 2308 03L 405H

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: G71559	RunNo: 71559								
Prep Date:	Analysis Date: 9/1/2020	SeqNo: 2499999	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.5	70	130			
Surr: BFB	470		500.0		93.5	70	130			

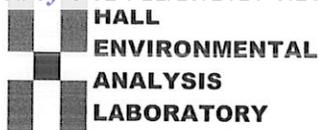
Sample ID: 2009004-021ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: Wash SW04	Batch ID: G71559	RunNo: 71559								
Prep Date:	Analysis Date: 9/1/2020	SeqNo: 2500002	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.4	27.12	0	92.8	49.2	122			
Surr: BFB	530		542.3		97.8	70	130			

Sample ID: 2009004-021amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: Wash SW04	Batch ID: G71559	RunNo: 71559								
Prep Date:	Analysis Date: 9/1/2020	SeqNo: 2500003	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.4	27.12	0	89.2	49.2	122	4.00	20	
Surr: BFB	510		542.3		93.5	70	130	0	0	

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: G71559	RunNo: 71559								
Prep Date:	Analysis Date: 9/1/2020	SeqNo: 2500019	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	500		500.0		99.1	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: LTE Work Order Number: 2009004 RcptNo: 1

Received By: Cheyenne Cason 9/1/2020 8:00:00 AM

Completed By: Isaiah Ortiz 9/1/2020 8:22:38 AM

Reviewed By: SPA 9.1.20 / 9:45

IOX

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0° C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: JR 9/1/20 one 9/1/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

Chain-of-Custody Record

Turn-Around Time: Next Day
 Standard Rush 24-hour

Project Name: Quaco 2308 03L 405H

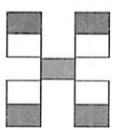
Project #: 099520004

Project Manager: S Hyde

Sampler: S Hyde
 On Ice: Yes No

of Coolers: 2
 Cooler Temp (including CF): See Pencil

Container Type and #
 Preservative Type
 HEAL No. 2009004



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

MTBE / TMB's (8021)	FPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X					X			

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
8/31	1000	Soil	FS01 WASH FS01	1-4oz jar	-	001
	1005		FS02 WASH FS02			002
	1008		FS03 WASH FS03			003
	1010		WASH FS04			004
	1015		WASH FS05			005
	1019		WASH FS06			006
	1021		WASH FS07			007
	1025		WASH FS08			008
	1030		WASH FS09			009
	1038		WASH FS10			010
	1042		WASH FS11			011
	1046		WASH FS12			012

Date: 8/31/2020 Time: 1751 Relinquished by: [Signature]
 Received by: [Signature] Via: [Signature] Date: 8/31/2020 Time: 1751

Date: 8/31/20 Time: 1904 Relinquished by: [Signature]
 Received by: [Signature] Via: [Signature] Date: 9/1/20 Time: 0800

Remarks:
 4.2 + 0.1 = 4.3
 3.1 + 0.1 = 3.2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: LTE

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush Next Day

Project Name:
Chico #208 D3L405H

Project #:
099520004

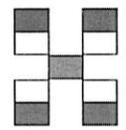
Project Manager:
S Hyde

Sampler: S Hyde

On Ice: Yes No

of Coolers: 2

Cooler Temp (including CF): See Demand (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MPO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
8/31	1050	Soil	WASH FS13	1-4oz	-	2009004	X	X					X			
	1055		WASH FS14			014										
	1057		WASH FS15			015										
	1100		WASH FS16			016										
	1105		WASH FS17			017										
	1120		WASH SW01			018										
	1124		WASH SW02			019										
	1129		WASH SW03			020										
	1132		WASH SW04			021										
	1135		WASH SW05			022										
	1140		WASH SW06			023										
	1145		WASH SW07			024										

Date: 8/31/2020 Time: 1751 Relinquished by: [Signature]

Date: 8/31/20 Time: 1904 Relinquished by: Christine Waelen

Date: 8/31/2020 Time: 1751 Received by: [Signature] Via: _____

Date: 9/1/20 Time: 0800 Received by: [Signature] Via: _____

Remarks:
 4.2 ± 0.1 = 4.3
 3.1 ± 0.1 = 3.2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly noted on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

September 11, 2020

Stuart Hyde
LTE
848 East 2nd Avenue
Durango, CO 81301
TEL: (970) 946-1093
FAX:

RE: Chaco 2308 3L 405H

OrderNo.: 2009304

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 25 sample(s) on 9/4/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2009304

Date Reported: 9/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area SW01

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 10:30:00 AM

Lab ID: 2009304-001

Matrix: MEOH (SOIL)

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/6/2020 6:28:58 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/6/2020 6:28:58 AM
Surr: DNOP	69.3	30.4-154		%Rec	1	9/6/2020 6:28:58 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/5/2020 1:21:22 AM
Surr: BFB	93.9	75.3-105		%Rec	1	9/5/2020 1:21:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	9/5/2020 1:21:22 AM
Toluene	ND	0.040		mg/Kg	1	9/5/2020 1:21:22 AM
Ethylbenzene	ND	0.040		mg/Kg	1	9/5/2020 1:21:22 AM
Xylenes, Total	ND	0.080		mg/Kg	1	9/5/2020 1:21:22 AM
Surr: 4-Bromofluorobenzene	99.1	80-120		%Rec	1	9/5/2020 1:21:22 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1000	60		mg/Kg	20	9/6/2020 4:00:29 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2009304

Date Reported: 9/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area SW02

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 10:33:00 AM

Lab ID: 2009304-002

Matrix: MEOH (SOIL) Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/6/2020 7:41:43 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/6/2020 7:41:43 AM
Surr: DNOP	65.4	30.4-154		%Rec	1	9/6/2020 7:41:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/5/2020 1:44:44 AM
Surr: BFB	94.2	75.3-105		%Rec	1	9/5/2020 1:44:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.019		mg/Kg	1	9/5/2020 1:44:44 AM
Toluene	ND	0.037		mg/Kg	1	9/5/2020 1:44:44 AM
Ethylbenzene	ND	0.037		mg/Kg	1	9/5/2020 1:44:44 AM
Xylenes, Total	ND	0.075		mg/Kg	1	9/5/2020 1:44:44 AM
Surr: 4-Bromofluorobenzene	98.0	80-120		%Rec	1	9/5/2020 1:44:44 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	280	60		mg/Kg	20	9/6/2020 11:47:02 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area SW03

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 10:36:00 AM

Lab ID: 2009304-003

Matrix: MEOH (SOIL)

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/6/2020 8:30:18 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/6/2020 8:30:18 AM
Surr: DNOP	78.1	30.4-154		%Rec	1	9/6/2020 8:30:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/5/2020 2:08:15 AM
Surr: BFB	93.7	75.3-105		%Rec	1	9/5/2020 2:08:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	9/5/2020 2:08:15 AM
Toluene	ND	0.040		mg/Kg	1	9/5/2020 2:08:15 AM
Ethylbenzene	ND	0.040		mg/Kg	1	9/5/2020 2:08:15 AM
Xylenes, Total	ND	0.081		mg/Kg	1	9/5/2020 2:08:15 AM
Surr: 4-Bromofluorobenzene	98.2	80-120		%Rec	1	9/5/2020 2:08:15 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	630	60		mg/Kg	20	9/6/2020 12:24:15 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- | | | | |
|-----|---|----|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area SW04

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 10:40:00 AM

Lab ID: 2009304-004

Matrix: MEOH (SOIL)

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/6/2020 8:54:29 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/6/2020 8:54:29 AM
Surr: DNOP	67.4	30.4-154		%Rec	1	9/6/2020 8:54:29 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/5/2020 2:31:51 AM
Surr: BFB	93.9	75.3-105		%Rec	1	9/5/2020 2:31:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	9/5/2020 2:31:51 AM
Toluene	ND	0.040		mg/Kg	1	9/5/2020 2:31:51 AM
Ethylbenzene	ND	0.040		mg/Kg	1	9/5/2020 2:31:51 AM
Xylenes, Total	ND	0.081		mg/Kg	1	9/5/2020 2:31:51 AM
Surr: 4-Bromofluorobenzene	98.4	80-120		%Rec	1	9/5/2020 2:31:51 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1000	60		mg/Kg	20	9/6/2020 1:01:27 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- | | | | |
|-----|---|----|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area SW05

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 10:43:00 AM

Lab ID: 2009304-005

Matrix: MEOH (SOIL)

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/6/2020 9:18:52 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/6/2020 9:18:52 AM
Surr: DNOP	59.9	30.4-154		%Rec	1	9/6/2020 9:18:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/6/2020 3:22:31 AM
Surr: BFB	93.0	75.3-105		%Rec	1	9/6/2020 3:22:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.020		mg/Kg	1	9/6/2020 3:22:31 AM
Toluene	ND	0.040		mg/Kg	1	9/6/2020 3:22:31 AM
Ethylbenzene	ND	0.040		mg/Kg	1	9/6/2020 3:22:31 AM
Xylenes, Total	ND	0.080		mg/Kg	1	9/6/2020 3:22:31 AM
Surr: 4-Bromofluorobenzene	97.4	80-120		%Rec	1	9/6/2020 3:22:31 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/6/2020 1:13:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area SW06

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 10:46:00 AM

Lab ID: 2009304-006

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/6/2020 9:43:07 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/6/2020 9:43:07 AM
Surr: DNOP	68.1	30.4-154		%Rec	1	9/6/2020 9:43:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/6/2020 3:46:04 AM
Surr: BFB	95.2	75.3-105		%Rec	1	9/6/2020 3:46:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	9/6/2020 3:46:04 AM
Toluene	ND	0.036		mg/Kg	1	9/6/2020 3:46:04 AM
Ethylbenzene	ND	0.036		mg/Kg	1	9/6/2020 3:46:04 AM
Xylenes, Total	ND	0.071		mg/Kg	1	9/6/2020 3:46:04 AM
Surr: 4-Bromofluorobenzene	99.3	80-120		%Rec	1	9/6/2020 3:46:04 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/6/2020 1:51:06 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area SW07

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 10:50:00 AM

Lab ID: 2009304-007

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/6/2020 10:07:32 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/6/2020 10:07:32 AM
Surr: DNOP	63.9	30.4-154		%Rec	1	9/6/2020 10:07:32 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	9/6/2020 4:09:26 AM
Surr: BFB	92.0	75.3-105		%Rec	1	9/6/2020 4:09:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	9/6/2020 4:09:26 AM
Toluene	ND	0.038		mg/Kg	1	9/6/2020 4:09:26 AM
Ethylbenzene	ND	0.038		mg/Kg	1	9/6/2020 4:09:26 AM
Xylenes, Total	ND	0.077		mg/Kg	1	9/6/2020 4:09:26 AM
Surr: 4-Bromofluorobenzene	97.2	80-120		%Rec	1	9/6/2020 4:09:26 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/6/2020 2:03:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area SW08

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 10:53:00 AM

Lab ID: 2009304-008

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/6/2020 10:31:48 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/6/2020 10:31:48 AM
Surr: DNOP	97.3	30.4-154		%Rec	1	9/6/2020 10:31:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/6/2020 4:32:50 AM
Surr: BFB	96.1	75.3-105		%Rec	1	9/6/2020 4:32:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/6/2020 4:32:50 AM
Toluene	ND	0.050		mg/Kg	1	9/6/2020 4:32:50 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/6/2020 4:32:50 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/6/2020 4:32:50 AM
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	9/6/2020 4:32:50 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/6/2020 2:15:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2009304

Date Reported: 9/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area SW09

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 10:56:00 AM

Lab ID: 2009304-009

Matrix: MEOH (SOIL)

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/6/2020 10:56:24 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/6/2020 10:56:24 AM
Surr: DNOP	77.3	30.4-154		%Rec	1	9/6/2020 10:56:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	9/6/2020 4:56:12 AM
Surr: BFB	95.5	75.3-105		%Rec	1	9/6/2020 4:56:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	9/6/2020 4:56:12 AM
Toluene	ND	0.035		mg/Kg	1	9/6/2020 4:56:12 AM
Ethylbenzene	ND	0.035		mg/Kg	1	9/6/2020 4:56:12 AM
Xylenes, Total	ND	0.070		mg/Kg	1	9/6/2020 4:56:12 AM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/6/2020 4:56:12 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	270	60		mg/Kg	20	9/6/2020 2:28:19 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS01

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:20:00 AM

Lab ID: 2009304-010

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/6/2020 11:20:40 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/6/2020 11:20:40 AM
Surr: DNOP	73.8	30.4-154		%Rec	1	9/6/2020 11:20:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	9/6/2020 5:20:04 AM
Surr: BFB	98.7	75.3-105		%Rec	1	9/6/2020 5:20:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	9/6/2020 5:20:04 AM
Toluene	ND	0.043		mg/Kg	1	9/6/2020 5:20:04 AM
Ethylbenzene	ND	0.043		mg/Kg	1	9/6/2020 5:20:04 AM
Xylenes, Total	ND	0.085		mg/Kg	1	9/6/2020 5:20:04 AM
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	9/6/2020 5:20:04 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	220	60		mg/Kg	20	9/6/2020 2:40:43 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS02

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:23:00 AM

Lab ID: 2009304-011

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/6/2020 11:45:05 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/6/2020 11:45:05 AM
Surr: DNOP	75.3	30.4-154		%Rec	1	9/6/2020 11:45:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	9/6/2020 5:44:05 AM
Surr: BFB	98.1	75.3-105		%Rec	1	9/6/2020 5:44:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/6/2020 5:44:05 AM
Toluene	ND	0.051		mg/Kg	1	9/6/2020 5:44:05 AM
Ethylbenzene	ND	0.051		mg/Kg	1	9/6/2020 5:44:05 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/6/2020 5:44:05 AM
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	9/6/2020 5:44:05 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	540	60		mg/Kg	20	9/6/2020 2:53:08 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS03

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:26:00 AM

Lab ID: 2009304-012

Matrix: MEOH (SOIL)

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/6/2020 12:09:21 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/6/2020 12:09:21 PM
Surr: DNOP	74.1	30.4-154		%Rec	1	9/6/2020 12:09:21 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	460	60		mg/Kg	20	9/6/2020 3:05:32 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	9/5/2020 5:47:37 AM
Toluene	ND	0.046		mg/Kg	1	9/5/2020 5:47:37 AM
Ethylbenzene	ND	0.046		mg/Kg	1	9/5/2020 5:47:37 AM
Xylenes, Total	ND	0.093		mg/Kg	1	9/5/2020 5:47:37 AM
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%Rec	1	9/5/2020 5:47:37 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/5/2020 5:47:37 AM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	9/5/2020 5:47:37 AM
Surr: Toluene-d8	95.9	70-130		%Rec	1	9/5/2020 5:47:37 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/5/2020 5:47:37 AM
Surr: BFB	103	70-130		%Rec	1	9/5/2020 5:47:37 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS04

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:29:00 AM

Lab ID: 2009304-013

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/6/2020 12:33:44 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/6/2020 12:33:44 PM
Surr: DNOP	71.6	30.4-154		%Rec	1	9/6/2020 12:33:44 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	230	60		mg/Kg	20	9/6/2020 3:17:57 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/5/2020 6:16:05 AM
Toluene	ND	0.050		mg/Kg	1	9/5/2020 6:16:05 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/5/2020 6:16:05 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/5/2020 6:16:05 AM
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%Rec	1	9/5/2020 6:16:05 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/5/2020 6:16:05 AM
Surr: Dibromofluoromethane	114	70-130		%Rec	1	9/5/2020 6:16:05 AM
Surr: Toluene-d8	97.2	70-130		%Rec	1	9/5/2020 6:16:05 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/5/2020 6:16:05 AM
Surr: BFB	107	70-130		%Rec	1	9/5/2020 6:16:05 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS05

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:32:00 AM

Lab ID: 2009304-014

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	9/6/2020 12:58:05 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/6/2020 12:58:05 PM
Surr: DNOP	53.6	30.4-154		%Rec	1	9/6/2020 12:58:05 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	490	60		mg/Kg	20	9/6/2020 3:30:21 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	9/5/2020 6:44:33 AM
Toluene	ND	0.050		mg/Kg	1	9/5/2020 6:44:33 AM
Ethylbenzene	ND	0.050		mg/Kg	1	9/5/2020 6:44:33 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/5/2020 6:44:33 AM
Surr: 1,2-Dichloroethane-d4	94.3	70-130		%Rec	1	9/5/2020 6:44:33 AM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	9/5/2020 6:44:33 AM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	9/5/2020 6:44:33 AM
Surr: Toluene-d8	95.3	70-130		%Rec	1	9/5/2020 6:44:33 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/5/2020 6:44:33 AM
Surr: BFB	107	70-130		%Rec	1	9/5/2020 6:44:33 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS06

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:35:00 AM

Lab ID: 2009304-015

Matrix: MEOH (SOIL)

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/6/2020 1:22:33 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/6/2020 1:22:33 PM
Surr: DNOP	65.7	30.4-154		%Rec	1	9/6/2020 1:22:33 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	59		mg/Kg	20	9/6/2020 3:42:46 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.026		mg/Kg	1	9/5/2020 7:13:13 AM
Toluene	ND	0.052		mg/Kg	1	9/5/2020 7:13:13 AM
Ethylbenzene	ND	0.052		mg/Kg	1	9/5/2020 7:13:13 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/5/2020 7:13:13 AM
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%Rec	1	9/5/2020 7:13:13 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/5/2020 7:13:13 AM
Surr: Dibromofluoromethane	115	70-130		%Rec	1	9/5/2020 7:13:13 AM
Surr: Toluene-d8	96.4	70-130		%Rec	1	9/5/2020 7:13:13 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg	1	9/5/2020 7:13:13 AM
Surr: BFB	106	70-130		%Rec	1	9/5/2020 7:13:13 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS07

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:38:00 AM

Lab ID: 2009304-016

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/6/2020 1:46:59 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/6/2020 1:46:59 PM
Surr: DNOP	85.9	30.4-154		%Rec	1	9/6/2020 1:46:59 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/6/2020 4:20:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	9/5/2020 7:41:52 AM
Toluene	ND	0.045		mg/Kg	1	9/5/2020 7:41:52 AM
Ethylbenzene	ND	0.045		mg/Kg	1	9/5/2020 7:41:52 AM
Xylenes, Total	ND	0.090		mg/Kg	1	9/5/2020 7:41:52 AM
Surr: 1,2-Dichloroethane-d4	95.3	70-130		%Rec	1	9/5/2020 7:41:52 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/5/2020 7:41:52 AM
Surr: Dibromofluoromethane	112	70-130		%Rec	1	9/5/2020 7:41:52 AM
Surr: Toluene-d8	97.1	70-130		%Rec	1	9/5/2020 7:41:52 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	9/5/2020 7:41:52 AM
Surr: BFB	110	70-130		%Rec	1	9/5/2020 7:41:52 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS08

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:41:00 AM

Lab ID: 2009304-017

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/6/2020 2:11:28 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/6/2020 2:11:28 PM
Surr: DNOP	60.6	30.4-154		%Rec	1	9/6/2020 2:11:28 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	61		mg/Kg	20	9/6/2020 4:32:24 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	9/5/2020 8:10:22 AM
Toluene	ND	0.046		mg/Kg	1	9/5/2020 8:10:22 AM
Ethylbenzene	ND	0.046		mg/Kg	1	9/5/2020 8:10:22 AM
Xylenes, Total	ND	0.093		mg/Kg	1	9/5/2020 8:10:22 AM
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%Rec	1	9/5/2020 8:10:22 AM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	9/5/2020 8:10:22 AM
Surr: Dibromofluoromethane	111	70-130		%Rec	1	9/5/2020 8:10:22 AM
Surr: Toluene-d8	94.5	70-130		%Rec	1	9/5/2020 8:10:22 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/5/2020 8:10:22 AM
Surr: BFB	105	70-130		%Rec	1	9/5/2020 8:10:22 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS09

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:44:00 AM

Lab ID: 2009304-018

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/6/2020 2:35:48 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/6/2020 2:35:48 PM
Surr: DNOP	68.2	30.4-154		%Rec	1	9/6/2020 2:35:48 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	61		mg/Kg	20	9/6/2020 4:44:48 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.019		mg/Kg	1	9/5/2020 8:38:50 AM
Toluene	ND	0.037		mg/Kg	1	9/5/2020 8:38:50 AM
Ethylbenzene	ND	0.037		mg/Kg	1	9/5/2020 8:38:50 AM
Xylenes, Total	ND	0.074		mg/Kg	1	9/5/2020 8:38:50 AM
Surr: 1,2-Dichloroethane-d4	94.3	70-130		%Rec	1	9/5/2020 8:38:50 AM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	9/5/2020 8:38:50 AM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	9/5/2020 8:38:50 AM
Surr: Toluene-d8	96.1	70-130		%Rec	1	9/5/2020 8:38:50 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/5/2020 8:38:50 AM
Surr: BFB	112	70-130		%Rec	1	9/5/2020 8:38:50 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS10

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:47:00 AM

Lab ID: 2009304-019

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/6/2020 3:00:22 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/6/2020 3:00:22 PM
Surr: DNOP	78.5	30.4-154		%Rec	1	9/6/2020 3:00:22 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/6/2020 4:57:13 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.021		mg/Kg	1	9/5/2020 9:07:20 AM
Toluene	ND	0.042		mg/Kg	1	9/5/2020 9:07:20 AM
Ethylbenzene	ND	0.042		mg/Kg	1	9/5/2020 9:07:20 AM
Xylenes, Total	ND	0.083		mg/Kg	1	9/5/2020 9:07:20 AM
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	1	9/5/2020 9:07:20 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/5/2020 9:07:20 AM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	9/5/2020 9:07:20 AM
Surr: Toluene-d8	94.4	70-130		%Rec	1	9/5/2020 9:07:20 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	9/5/2020 9:07:20 AM
Surr: BFB	107	70-130		%Rec	1	9/5/2020 9:07:20 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS11

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:50:00 AM

Lab ID: 2009304-020

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/6/2020 3:24:53 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/6/2020 3:24:53 PM
Surr: DNOP	81.7	30.4-154		%Rec	1	9/6/2020 3:24:53 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/6/2020 5:09:37 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.021		mg/Kg	1	9/5/2020 9:36:03 AM
Toluene	ND	0.041		mg/Kg	1	9/5/2020 9:36:03 AM
Ethylbenzene	ND	0.041		mg/Kg	1	9/5/2020 9:36:03 AM
Xylenes, Total	ND	0.082		mg/Kg	1	9/5/2020 9:36:03 AM
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%Rec	1	9/5/2020 9:36:03 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/5/2020 9:36:03 AM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	9/5/2020 9:36:03 AM
Surr: Toluene-d8	95.3	70-130		%Rec	1	9/5/2020 9:36:03 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	9/5/2020 9:36:03 AM
Surr: BFB	106	70-130		%Rec	1	9/5/2020 9:36:03 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS12

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:53:00 AM

Lab ID: 2009304-021

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/6/2020 5:02:28 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/6/2020 5:02:28 PM
Surr: DNOP	82.0	30.4-154		%Rec	1	9/6/2020 5:02:28 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	9/6/2020 5:22:01 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.020		mg/Kg	1	9/5/2020 4:29:46 AM
Toluene	ND	0.039		mg/Kg	1	9/5/2020 4:29:46 AM
Ethylbenzene	ND	0.039		mg/Kg	1	9/5/2020 4:29:46 AM
Xylenes, Total	ND	0.078		mg/Kg	1	9/5/2020 4:29:46 AM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	9/5/2020 4:29:46 AM
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	9/5/2020 4:29:46 AM
Surr: Dibromofluoromethane	101	70-130		%Rec	1	9/5/2020 4:29:46 AM
Surr: Toluene-d8	102	70-130		%Rec	1	9/5/2020 4:29:46 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	9/5/2020 4:29:46 AM
Surr: BFB	96.7	70-130		%Rec	1	9/5/2020 4:29:46 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS13

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:56:00 AM

Lab ID: 2009304-022

Matrix: MEOH (SOIL)

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/6/2020 6:15:59 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/6/2020 6:15:59 PM
Surr: DNOP	65.2	30.4-154		%Rec	1	9/6/2020 6:15:59 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/8/2020 9:59:23 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	9/5/2020 5:59:03 AM
Toluene	ND	0.048		mg/Kg	1	9/5/2020 5:59:03 AM
Ethylbenzene	ND	0.048		mg/Kg	1	9/5/2020 5:59:03 AM
Xylenes, Total	ND	0.096		mg/Kg	1	9/5/2020 5:59:03 AM
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	9/5/2020 5:59:03 AM
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	9/5/2020 5:59:03 AM
Surr: Dibromofluoromethane	94.4	70-130		%Rec	1	9/5/2020 5:59:03 AM
Surr: Toluene-d8	106	70-130		%Rec	1	9/5/2020 5:59:03 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/5/2020 5:59:03 AM
Surr: BFB	95.8	70-130		%Rec	1	9/5/2020 5:59:03 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: SW Area FS14

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 11:59:00 AM

Lab ID: 2009304-023

Matrix: MEOH (SOIL) **Received Date:** 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/6/2020 6:40:26 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/6/2020 6:40:26 PM
Surr: DNOP	76.4	30.4-154		%Rec	1	9/6/2020 6:40:26 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	150	60		mg/Kg	20	9/8/2020 10:36:27 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.026		mg/Kg	1	9/5/2020 7:27:30 AM
Toluene	ND	0.052		mg/Kg	1	9/5/2020 7:27:30 AM
Ethylbenzene	ND	0.052		mg/Kg	1	9/5/2020 7:27:30 AM
Xylenes, Total	ND	0.10		mg/Kg	1	9/5/2020 7:27:30 AM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/5/2020 7:27:30 AM
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	9/5/2020 7:27:30 AM
Surr: Dibromofluoromethane	98.7	70-130		%Rec	1	9/5/2020 7:27:30 AM
Surr: Toluene-d8	104	70-130		%Rec	1	9/5/2020 7:27:30 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.2		mg/Kg	1	9/5/2020 7:27:30 AM
Surr: BFB	94.7	70-130		%Rec	1	9/5/2020 7:27:30 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW08-B

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 12:25:00 PM

Lab ID: 2009304-024

Matrix: MEOH (SOIL)

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	9/6/2020 7:04:56 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/6/2020 7:04:56 PM
Surr: DNOP	57.6	30.4-154		%Rec	1	9/6/2020 7:04:56 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/8/2020 11:13:28 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.018		mg/Kg	1	9/5/2020 7:57:04 AM
Toluene	ND	0.036		mg/Kg	1	9/5/2020 7:57:04 AM
Ethylbenzene	ND	0.036		mg/Kg	1	9/5/2020 7:57:04 AM
Xylenes, Total	ND	0.072		mg/Kg	1	9/5/2020 7:57:04 AM
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%Rec	1	9/5/2020 7:57:04 AM
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	9/5/2020 7:57:04 AM
Surr: Dibromofluoromethane	95.8	70-130		%Rec	1	9/5/2020 7:57:04 AM
Surr: Toluene-d8	103	70-130		%Rec	1	9/5/2020 7:57:04 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/5/2020 7:57:04 AM
Surr: BFB	93.4	70-130		%Rec	1	9/5/2020 7:57:04 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2009304**

Date Reported: **9/11/2020**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: Wash SW10-B

Project: Chaco 2308 3L 405H

Collection Date: 9/3/2020 12:30:00 PM

Lab ID: 2009304-025

Matrix: MEOH (SOIL)

Received Date: 9/4/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/6/2020 7:29:30 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/6/2020 7:29:30 PM
Surr: DNOP	73.6	30.4-154		%Rec	1	9/6/2020 7:29:30 PM
EPA METHOD 300.0: ANIONS						Analyst: CJS
Chloride	ND	60		mg/Kg	20	9/8/2020 11:25:49 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Benzene	ND	0.018		mg/Kg	1	9/5/2020 8:27:10 AM
Toluene	ND	0.036		mg/Kg	1	9/5/2020 8:27:10 AM
Ethylbenzene	ND	0.036		mg/Kg	1	9/5/2020 8:27:10 AM
Xylenes, Total	ND	0.073		mg/Kg	1	9/5/2020 8:27:10 AM
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	9/5/2020 8:27:10 AM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	9/5/2020 8:27:10 AM
Surr: Dibromofluoromethane	96.7	70-130		%Rec	1	9/5/2020 8:27:10 AM
Surr: Toluene-d8	103	70-130		%Rec	1	9/5/2020 8:27:10 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: DJF
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	9/5/2020 8:27:10 AM
Surr: BFB	93.5	70-130		%Rec	1	9/5/2020 8:27:10 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: MB-54979	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54979	RunNo: 71656								
Prep Date: 9/5/2020	Analysis Date: 9/5/2020	SeqNo: 2505307	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54979	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54979	RunNo: 71656								
Prep Date: 9/5/2020	Analysis Date: 9/5/2020	SeqNo: 2505308	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	90	110			

Sample ID: MB-54983	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 54983	RunNo: 71671								
Prep Date: 9/5/2020	Analysis Date: 9/6/2020	SeqNo: 2506197	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-54983	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 54983	RunNo: 71671								
Prep Date: 9/5/2020	Analysis Date: 9/6/2020	SeqNo: 2506198	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Sample ID: MB-55006	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 55006	RunNo: 71685								
Prep Date: 9/8/2020	Analysis Date: 9/8/2020	SeqNo: 2506856	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-55006	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 55006	RunNo: 71685								
Prep Date: 9/8/2020	Analysis Date: 9/8/2020	SeqNo: 2506857	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: LCS-54951	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 54951		RunNo: 71657							
Prep Date: 9/4/2020	Analysis Date: 9/5/2020		SeqNo: 2505398		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		79.7	30.4	154			

Sample ID: LCS-54955	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 54955		RunNo: 71657							
Prep Date: 9/4/2020	Analysis Date: 9/5/2020		SeqNo: 2505399		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		77.3	30.4	154			

Sample ID: LCS-54958	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 54958		RunNo: 71657							
Prep Date: 9/4/2020	Analysis Date: 9/6/2020		SeqNo: 2505400		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.2	70	130			
Surr: DNOP	2.2		5.000		43.5	30.4	154			

Sample ID: LCS-54959	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 54959		RunNo: 71657							
Prep Date: 9/4/2020	Analysis Date: 9/6/2020		SeqNo: 2505401		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	99.0	70	130			
Surr: DNOP	3.6		5.000		71.3	30.4	154			

Sample ID: MB-54951	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 54951		RunNo: 71657							
Prep Date: 9/4/2020	Analysis Date: 9/5/2020		SeqNo: 2505403		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		84.3	30.4	154			

Sample ID: MB-54955	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 54955		RunNo: 71657							
Prep Date: 9/4/2020	Analysis Date: 9/5/2020		SeqNo: 2505404		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		82.6	30.4	154			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: MB-54958	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54958	RunNo: 71657								
Prep Date: 9/4/2020	Analysis Date: 9/6/2020	SeqNo: 2505405	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	5.6		10.00		56.0	30.4	154			

Sample ID: MB-54959	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 54959	RunNo: 71657								
Prep Date: 9/4/2020	Analysis Date: 9/6/2020	SeqNo: 2505406	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		79.3	30.4	154			

Sample ID: 2009304-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW Area SW01	Batch ID: 54958	RunNo: 71657								
Prep Date: 9/4/2020	Analysis Date: 9/6/2020	SeqNo: 2505513	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.9	49.50	0	115	47.4	136			
Surr: DNOP	3.4		4.950		69.6	30.4	154			

Sample ID: 2009304-021AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW Area FS12	Batch ID: 54959	RunNo: 71657								
Prep Date: 9/4/2020	Analysis Date: 9/6/2020	SeqNo: 2505515	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.3	46.51	0	92.0	47.4	136			
Surr: DNOP	3.0		4.651		65.1	30.4	154			

Sample ID: 2009304-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW Area SW01	Batch ID: 54958	RunNo: 71657								
Prep Date: 9/4/2020	Analysis Date: 9/6/2020	SeqNo: 2505521	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	9.9	49.31	0	123	47.4	136	6.14	43.4	
Surr: DNOP	3.8		4.931		77.9	30.4	154	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: 2009304-021AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW Area FS12	Batch ID: 54959	RunNo: 71657								
Prep Date: 9/4/2020	Analysis Date: 9/6/2020	SeqNo: 2505522	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.1	45.58	0	82.7	47.4	136	12.7	43.4	
Surr: DNOP	2.7		4.558		58.9	30.4	154	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: ics-54867	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 54867	RunNo: 71646								
Prep Date: 9/1/2020	Analysis Date: 9/4/2020	SeqNo: 2504664	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.3	72.5	106			
Surr: BFB	1100		1000		109	75.3	105			S

Sample ID: mb-54867	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 54867	RunNo: 71646								
Prep Date: 9/1/2020	Analysis Date: 9/4/2020	SeqNo: 2504666	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.8	75.3	105			

Sample ID: mb-54909	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 54909	RunNo: 71654								
Prep Date: 9/2/2020	Analysis Date: 9/5/2020	SeqNo: 2505130	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.3	75.3	105			

Sample ID: ics-54909	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 54909	RunNo: 71654								
Prep Date: 9/2/2020	Analysis Date: 9/5/2020	SeqNo: 2505131	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.2	72.5	106			
Surr: BFB	1100		1000		108	75.3	105			S

Sample ID: mb-54964	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 54964	RunNo: 71681								
Prep Date: 9/4/2020	Analysis Date: 9/8/2020	SeqNo: 2506602	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.0	75.3	105			

Sample ID: ics-54964	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 54964	RunNo: 71681								
Prep Date: 9/4/2020	Analysis Date: 9/8/2020	SeqNo: 2506603	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		108	75.3	105			S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: LCS-54867	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 54867	RunNo: 71646								
Prep Date: 9/1/2020	Analysis Date: 9/4/2020	SeqNo: 2504717	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: mb-54867	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 54867	RunNo: 71646								
Prep Date: 9/1/2020	Analysis Date: 9/4/2020	SeqNo: 2504719	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID: mb-54909	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 54909	RunNo: 71681								
Prep Date: 9/2/2020	Analysis Date: 9/8/2020	SeqNo: 2506639	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: lcs-54909	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 54909	RunNo: 71681								
Prep Date: 9/2/2020	Analysis Date: 9/8/2020	SeqNo: 2506640	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	81.5	80	120			
Toluene	0.86	0.050	1.000	0	85.9	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.1	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: mb-54964	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 54964		RunNo: 71681							
Prep Date: 9/4/2020	Analysis Date: 9/8/2020		SeqNo: 2506653		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		97.8	80	120			

Sample ID: LCS-54964	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 54964		RunNo: 71681							
Prep Date: 9/4/2020	Analysis Date: 9/8/2020		SeqNo: 2506654		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	80	120			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: mb1	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: S71640	RunNo: 71640								
Prep Date:	Analysis Date: 9/4/2020	SeqNo: 2504224	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.4	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.2	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

Sample ID: 100ng lcs	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: S71640	RunNo: 71640								
Prep Date:	Analysis Date: 9/4/2020	SeqNo: 2504225	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.6	70	130			
Toluene	1.0	0.050	1.000	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		93.0	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.1	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.7	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Sample ID: 2009304-021ams	SampType: MS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SW Area FS12	Batch ID: S71640	RunNo: 71640								
Prep Date:	Analysis Date: 9/5/2020	SeqNo: 2504227	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.020	0.7843	0	92.3	67.9	137			
Toluene	0.83	0.039	0.7843	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	0.36		0.3922		92.8	70	130			
Surr: 4-Bromofluorobenzene	0.37		0.3922		94.0	70	130			
Surr: Dibromofluoromethane	0.38		0.3922		96.4	70	130			
Surr: Toluene-d8	0.41		0.3922		104	70	130			

Sample ID: 2009304-021amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SW Area FS12	Batch ID: S71640	RunNo: 71640								
Prep Date:	Analysis Date: 9/5/2020	SeqNo: 2504228	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.020	0.7843	0	86.8	67.9	137	6.14	20	
Toluene	0.79	0.039	0.7843	0	100	70	130	4.62	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: 2009304-021amsd	SampType: MSD	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: SW Area FS12	Batch ID: S71640	RunNo: 71640								
Prep Date:	Analysis Date: 9/5/2020	SeqNo: 2504228	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.37		0.3922		94.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.36		0.3922		91.9	70	130	0	0	
Surr: Dibromofluoromethane	0.37		0.3922		94.7	70	130	0	0	
Surr: Toluene-d8	0.40		0.3922		101	70	130	0	0	

Sample ID: mb-54944	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 54944	RunNo: 71645								
Prep Date: 9/3/2020	Analysis Date: 9/5/2020	SeqNo: 2504612	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		97.0	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.5	70	130			
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130			
Surr: Toluene-d8	0.46		0.5000		91.8	70	130			

Sample ID: Ics-54944	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 54944	RunNo: 71645								
Prep Date: 9/3/2020	Analysis Date: 9/5/2020	SeqNo: 2504722	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.3	80	120			
Toluene	0.96	0.050	1.000	0	96.1	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		97.8	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.47		0.5000		93.6	70	130			

Sample ID: mb-54900	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 54900	RunNo: 71651								
Prep Date: 9/2/2020	Analysis Date: 9/5/2020	SeqNo: 2504912	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.2	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.4	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: mb-54900	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 54900	RunNo: 71651								
Prep Date: 9/2/2020	Analysis Date: 9/5/2020	SeqNo: 2504912	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.56		0.5000		112	70	130			
Surr: Toluene-d8	0.48		0.5000		96.6	70	130			

Sample ID: ics-54900	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 54900	RunNo: 71651								
Prep Date: 9/2/2020	Analysis Date: 9/5/2020	SeqNo: 2504913	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.0	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130			
Surr: Toluene-d8	0.48		0.5000		95.1	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: mb1	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: G71640		RunNo: 71640							
Prep Date:	Analysis Date: 9/4/2020		SeqNo: 2504255		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.4	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: G71640		RunNo: 71640							
Prep Date:	Analysis Date: 9/4/2020		SeqNo: 2504256		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.9	70	130			
Surr: BFB	470		500.0		94.0	70	130			

Sample ID: 2009304-022ams	SampType: MS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: SW Area FS13	Batch ID: G71640		RunNo: 71640							
Prep Date:	Analysis Date: 9/5/2020		SeqNo: 2504259		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	24.02	0	85.6	49.2	122			
Surr: BFB	440		480.3		92.0	70	130			

Sample ID: 2009304-022amsd	SampType: MSD		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: SW Area FS13	Batch ID: G71640		RunNo: 71640							
Prep Date:	Analysis Date: 9/5/2020		SeqNo: 2504260		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.8	24.02	0	83.6	49.2	122	2.41	20	
Surr: BFB	440		480.3		92.2	70	130	0	0	

Sample ID: mb-54944	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 54944		RunNo: 71645							
Prep Date: 9/3/2020	Analysis Date: 9/5/2020		SeqNo: 2504782		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		103	70	130			

Sample ID: lcs-54944	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 54944		RunNo: 71645							
Prep Date: 9/3/2020	Analysis Date: 9/5/2020		SeqNo: 2504783		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2009304

11-Sep-20

Client: LTE
Project: Chaco 2308 3L 405H

Sample ID: ics-54944	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 54944		RunNo: 71645							
Prep Date: 9/3/2020	Analysis Date: 9/5/2020		SeqNo: 2504783		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.6	70	130			
Surr: BFB	530		500.0		107	70	130			

Sample ID: mb-54900	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 54900		RunNo: 71651							
Prep Date: 9/2/2020	Analysis Date: 9/5/2020		SeqNo: 2504946		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	520		500.0		105	70	130			

Sample ID: ics-54900	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 54900		RunNo: 71651							
Prep Date: 9/2/2020	Analysis Date: 9/5/2020		SeqNo: 2504947		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	540		500.0		107	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Limit |
| S % Recovery outside of range due to dilution or matrix | |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: LTE

Work Order Number: 2009304

RcptNo: 1

Received By: Cheyenne Cason 9/4/2020 8:00:00 AM

Completed By: Isaiah Ortiz 9/4/2020 8:34:01 AM

Reviewed By: LB 9/4/20

IOX

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted)

Adjusted?

Checked by: CMC 9/4/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.

Chain-of-Custody Record

Client: LT Environmental

Mailing Address: 848 E. 2nd Ave.
Durango, CO 81301

Phone #: 970-385-1096

email or Fax#: shyde@ltenv.com

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush Next Day

Project Name:
Chaco 2308 3L 405H

Project #:
99520004

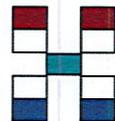
Project Manager:
Stuart Hyde

Sampler: Eric Carroll

On Ice: Yes No

of Coolers: 2

Cooler Temp (including CF): one cooler



HALL ENVIRONMENTAL ANALYSIS LABORATOR

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Analysis Request													
							BTEX / -MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
9/3/2020	1129	Soil	SW Area FS04	1 4 oz.	Cool	2009304 013 #10	x	x							x					
9/3/2020	1132	Soil	SW Area FS05	1 4 oz.	Cool	014 #10	x	x							x					
9/3/2020	1135	Soil	SW Area FS06	1 4 oz.	Cool	015 #10	x	x							x					
9/3/2020	1138	Soil	SW Area FS07	1 4 oz.	Cool	016 #10	x	x							x					
9/3/2020	1141	Soil	SW Area FS08	1 4 oz.	Cool	017 #10	x	x							x					
9/3/2020	1144	Soil	SW Area FS09	1 4 oz.	Cool	018 #10	x	x							x					
9/3/2020	1147	Soil	SW Area FS10	1 4 oz.	Cool	019 #10	x	x							x					
9/3/2020	1150	Soil	SW Area FS11	1 4 oz.	Cool	020 #10	x	x							x					
9/3/2020	1153	Soil	SW Area FS12	1 4 oz.	Cool	021 #10	x	x							x					
9/3/2020	1156	Soil	SW Area FS13	1 4 oz.	Cool	022 #10	x	x							x					
9/3/2020	1159	Soil	SW Area FS14	1 4 oz.	Cool	023 #10	x	x							x					
9/3/2020	1225	Soil	SW Area wash SW08-B	1 4 oz.	Cool	024 #10	x	x							x					

Date: <u>9/3</u>	Time: <u>1340</u>	Relinquished by: <u>Eric Carroll</u>	Received by: <u>[Signature]</u>	Via: _____	Date: <u>9/3/2020</u>	Time: <u>1340</u>
Date: <u>9/3/2020</u>	Time: <u>1910</u>	Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Via: _____	Date: <u>9/14/20</u>	Time: <u>0800</u>

Remarks:
2.0 - 0.2 = 1.8
1.1 - 0.2 = 0.9

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

October 28, 2020

Stuart Hyde

LTE

848 East 2nd Avenue

Durango, CO 81301

TEL: (970) 946-1093

FAX:

RE: Chaco 2308

OrderNo.: 2010957

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 28 sample(s) on 10/21/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-001

Matrix: SOIL

Client Sample ID: BH01 @ 0-2.5'
Collection Date: 10/19/2020 11:50:00 AM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	360	59		mg/Kg	20	10/24/2020 2:46:45 AM	56009
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/23/2020 3:07:39 AM	55960
Surr: BFB	95.6	70-130		%Rec	1	10/23/2020 3:07:39 AM	55960
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/22/2020 10:42:31 AM	55965
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/22/2020 10:42:31 AM	55965
Surr: DNOP	101	30.4-154		%Rec	1	10/22/2020 10:42:31 AM	55965
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/23/2020 3:07:39 AM	55960
Toluene	ND	0.047		mg/Kg	1	10/23/2020 3:07:39 AM	55960
Ethylbenzene	ND	0.047		mg/Kg	1	10/23/2020 3:07:39 AM	55960
Xylenes, Total	ND	0.094		mg/Kg	1	10/23/2020 3:07:39 AM	55960
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	10/23/2020 3:07:39 AM	55960
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	10/23/2020 3:07:39 AM	55960
Surr: Dibromofluoromethane	109	70-130		%Rec	1	10/23/2020 3:07:39 AM	55960
Surr: Toluene-d8	103	70-130		%Rec	1	10/23/2020 3:07:39 AM	55960

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-002

Matrix: SOIL

Client Sample ID: BH01 @ 12.5-15'
Collection Date: 10/19/2020 12:00:00 PM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	61		mg/Kg	20	10/24/2020 3:23:58 AM	56009
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 4:36:51 AM	55960
Surr: BFB	94.9	70-130		%Rec	1	10/23/2020 4:36:51 AM	55960
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/22/2020 11:54:54 AM	55965
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/22/2020 11:54:54 AM	55965
Surr: DNOP	96.1	30.4-154		%Rec	1	10/22/2020 11:54:54 AM	55965
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/23/2020 4:36:51 AM	55960
Toluene	ND	0.049		mg/Kg	1	10/23/2020 4:36:51 AM	55960
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 4:36:51 AM	55960
Xylenes, Total	ND	0.098		mg/Kg	1	10/23/2020 4:36:51 AM	55960
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	10/23/2020 4:36:51 AM	55960
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	10/23/2020 4:36:51 AM	55960
Surr: Dibromofluoromethane	111	70-130		%Rec	1	10/23/2020 4:36:51 AM	55960
Surr: Toluene-d8	104	70-130		%Rec	1	10/23/2020 4:36:51 AM	55960

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH02 @ 2.5-5'

Project: Chaco 2308

Collection Date: 10/19/2020 12:20:00 PM

Lab ID: 2010957-003

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	59	59		mg/Kg	20	10/24/2020 3:36:22 AM	56009
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 5:06:26 AM	55960
Surr: BFB	94.0	70-130		%Rec	1	10/23/2020 5:06:26 AM	55960
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/22/2020 12:18:54 PM	55965
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/22/2020 12:18:54 PM	55965
Surr: DNOP	114	30.4-154		%Rec	1	10/22/2020 12:18:54 PM	55965
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/23/2020 5:06:26 AM	55960
Toluene	ND	0.049		mg/Kg	1	10/23/2020 5:06:26 AM	55960
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 5:06:26 AM	55960
Xylenes, Total	ND	0.097		mg/Kg	1	10/23/2020 5:06:26 AM	55960
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	10/23/2020 5:06:26 AM	55960
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	10/23/2020 5:06:26 AM	55960
Surr: Dibromofluoromethane	108	70-130		%Rec	1	10/23/2020 5:06:26 AM	55960
Surr: Toluene-d8	105	70-130		%Rec	1	10/23/2020 5:06:26 AM	55960

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH02 @ 12.5-15'

Project: Chaco 2308

Collection Date: 10/19/2020 12:30:00 PM

Lab ID: 2010957-004

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/24/2020 3:48:47 AM	56009
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2020 5:36:13 AM	55960
Surr: BFB	95.4	70-130		%Rec	1	10/23/2020 5:36:13 AM	55960
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/22/2020 12:43:05 PM	55965
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/22/2020 12:43:05 PM	55965
Surr: DNOP	102	30.4-154		%Rec	1	10/22/2020 12:43:05 PM	55965
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/23/2020 5:36:13 AM	55960
Toluene	ND	0.048		mg/Kg	1	10/23/2020 5:36:13 AM	55960
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2020 5:36:13 AM	55960
Xylenes, Total	ND	0.096		mg/Kg	1	10/23/2020 5:36:13 AM	55960
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	10/23/2020 5:36:13 AM	55960
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	10/23/2020 5:36:13 AM	55960
Surr: Dibromofluoromethane	105	70-130		%Rec	1	10/23/2020 5:36:13 AM	55960
Surr: Toluene-d8	104	70-130		%Rec	1	10/23/2020 5:36:13 AM	55960

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-005

Matrix: SOIL

Client Sample ID: BH03 @ 2.5-5'
Collection Date: 10/19/2020 1:10:00 PM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	60	60		mg/Kg	20	10/24/2020 4:01:12 AM	56009
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2020 6:06:00 AM	55960
Surr: BFB	93.9	70-130		%Rec	1	10/23/2020 6:06:00 AM	55960
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/22/2020 1:07:14 PM	55965
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/22/2020 1:07:14 PM	55965
Surr: DNOP	97.6	30.4-154		%Rec	1	10/22/2020 1:07:14 PM	55965
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/23/2020 6:06:00 AM	55960
Toluene	ND	0.050		mg/Kg	1	10/23/2020 6:06:00 AM	55960
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2020 6:06:00 AM	55960
Xylenes, Total	ND	0.099		mg/Kg	1	10/23/2020 6:06:00 AM	55960
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	10/23/2020 6:06:00 AM	55960
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	10/23/2020 6:06:00 AM	55960
Surr: Dibromofluoromethane	108	70-130		%Rec	1	10/23/2020 6:06:00 AM	55960
Surr: Toluene-d8	104	70-130		%Rec	1	10/23/2020 6:06:00 AM	55960

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-006

Matrix: SOIL

Client Sample ID: BH03 @ 12.5-15'
Collection Date: 10/19/2020 1:15:00 PM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	10/24/2020 4:13:36 AM	56009
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/23/2020 6:35:33 AM	55960
Surr: BFB	93.4	70-130		%Rec	1	10/23/2020 6:35:33 AM	55960
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	0.095		mg/Kg	1	10/22/2020 1:31:20 PM	55965
Motor Oil Range Organics (MRO)	ND	0.47		mg/Kg	1	10/22/2020 1:31:20 PM	55965
Surr: DNOP	103	30.4-154		%Rec	1	10/22/2020 1:31:20 PM	55965
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/23/2020 6:35:33 AM	55960
Toluene	ND	0.047		mg/Kg	1	10/23/2020 6:35:33 AM	55960
Ethylbenzene	ND	0.047		mg/Kg	1	10/23/2020 6:35:33 AM	55960
Xylenes, Total	ND	0.094		mg/Kg	1	10/23/2020 6:35:33 AM	55960
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	10/23/2020 6:35:33 AM	55960
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	10/23/2020 6:35:33 AM	55960
Surr: Dibromofluoromethane	108	70-130		%Rec	1	10/23/2020 6:35:33 AM	55960
Surr: Toluene-d8	105	70-130		%Rec	1	10/23/2020 6:35:33 AM	55960

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-007

Matrix: SOIL

Client Sample ID: BH04 @ 7.5-10'
Collection Date: 10/19/2020 1:40:00 PM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	64	60		mg/Kg	20	10/27/2020 11:53:40 AM	56055
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 7:05:14 AM	55960
Surr: BFB	89.7	70-130		%Rec	1	10/23/2020 7:05:14 AM	55960
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	10/22/2020 1:55:26 PM	55965
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/22/2020 1:55:26 PM	55965
Surr: DNOP	112	30.4-154		%Rec	1	10/22/2020 1:55:26 PM	55965
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	10/23/2020 7:05:14 AM	55960
Toluene	ND	0.049		mg/Kg	1	10/23/2020 7:05:14 AM	55960
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 7:05:14 AM	55960
Xylenes, Total	ND	0.097		mg/Kg	1	10/23/2020 7:05:14 AM	55960
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	10/23/2020 7:05:14 AM	55960
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	10/23/2020 7:05:14 AM	55960
Surr: Dibromofluoromethane	111	70-130		%Rec	1	10/23/2020 7:05:14 AM	55960
Surr: Toluene-d8	101	70-130		%Rec	1	10/23/2020 7:05:14 AM	55960

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-008

Matrix: SOIL

Client Sample ID: BH04 @ 12.5-15'
Collection Date: 10/19/2020 1:50:00 PM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/27/2020 12:30:54 PM	56055
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 7:34:53 AM	55960
Surr: BFB	92.2	70-130		%Rec	1	10/23/2020 7:34:53 AM	55960
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/22/2020 2:19:42 PM	55965
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/22/2020 2:19:42 PM	55965
Surr: DNOP	95.9	30.4-154		%Rec	1	10/22/2020 2:19:42 PM	55965
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/23/2020 7:34:53 AM	55960
Toluene	ND	0.049		mg/Kg	1	10/23/2020 7:34:53 AM	55960
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 7:34:53 AM	55960
Xylenes, Total	ND	0.098		mg/Kg	1	10/23/2020 7:34:53 AM	55960
Surr: 1,2-Dichloroethane-d4	99.5	70-130		%Rec	1	10/23/2020 7:34:53 AM	55960
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	10/23/2020 7:34:53 AM	55960
Surr: Dibromofluoromethane	106	70-130		%Rec	1	10/23/2020 7:34:53 AM	55960
Surr: Toluene-d8	102	70-130		%Rec	1	10/23/2020 7:34:53 AM	55960

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH05 @ 2.5-5'

Project: Chaco 2308

Collection Date: 10/19/2020 2:20:00 PM

Lab ID: 2010957-009

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/27/2020 2:22:36 PM	56055
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 8:04:30 AM	55960
Surr: BFB	94.3	70-130		%Rec	1	10/23/2020 8:04:30 AM	55960
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: mb
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	10/22/2020 2:43:48 PM	55965
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/22/2020 2:43:48 PM	55965
Surr: DNOP	99.1	30.4-154		%Rec	1	10/22/2020 2:43:48 PM	55965
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	10/23/2020 8:04:30 AM	55960
Toluene	ND	0.049		mg/Kg	1	10/23/2020 8:04:30 AM	55960
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 8:04:30 AM	55960
Xylenes, Total	ND	0.099		mg/Kg	1	10/23/2020 8:04:30 AM	55960
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	10/23/2020 8:04:30 AM	55960
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	10/23/2020 8:04:30 AM	55960
Surr: Dibromofluoromethane	109	70-130		%Rec	1	10/23/2020 8:04:30 AM	55960
Surr: Toluene-d8	102	70-130		%Rec	1	10/23/2020 8:04:30 AM	55960

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH05 @ 12.5-15'

Project: Chaco 2308

Collection Date: 10/19/2020 2:26:00 PM

Lab ID: 2010957-010

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	10/27/2020 2:35:00 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/23/2020 3:19:33 PM	55973
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/23/2020 3:19:33 PM	55973
Surr: DNOP	84.9	30.4-154		%Rec	1	10/23/2020 3:19:33 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2020 2:25:31 PM	55969
Surr: BFB	98.8	75.3-105		%Rec	1	10/23/2020 2:25:31 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/23/2020 2:25:31 PM	55969
Toluene	ND	0.048		mg/Kg	1	10/23/2020 2:25:31 PM	55969
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2020 2:25:31 PM	55969
Xylenes, Total	ND	0.097		mg/Kg	1	10/23/2020 2:25:31 PM	55969
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	10/23/2020 2:25:31 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-011

Matrix: SOIL

Client Sample ID: BH06 @ 2.5-5'
Collection Date: 10/19/2020 3:00:00 PM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/27/2020 2:47:25 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/23/2020 3:49:05 PM	55973
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/23/2020 3:49:05 PM	55973
Surr: DNOP	74.2	30.4-154		%Rec	1	10/23/2020 3:49:05 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2020 3:35:49 PM	55969
Surr: BFB	95.3	75.3-105		%Rec	1	10/23/2020 3:35:49 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/23/2020 3:35:49 PM	55969
Toluene	ND	0.048		mg/Kg	1	10/23/2020 3:35:49 PM	55969
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2020 3:35:49 PM	55969
Xylenes, Total	ND	0.097		mg/Kg	1	10/23/2020 3:35:49 PM	55969
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	10/23/2020 3:35:49 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-012

Matrix: SOIL

Client Sample ID: BH06 @ 12.5-15'
Collection Date: 10/19/2020 3:10:00 PM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/27/2020 2:59:50 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/23/2020 3:58:53 PM	55973
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/23/2020 3:58:53 PM	55973
Surr: DNOP	77.2	30.4-154		%Rec	1	10/23/2020 3:58:53 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2020 4:47:42 PM	55969
Surr: BFB	98.3	75.3-105		%Rec	1	10/23/2020 4:47:42 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/23/2020 4:47:42 PM	55969
Toluene	ND	0.050		mg/Kg	1	10/23/2020 4:47:42 PM	55969
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2020 4:47:42 PM	55969
Xylenes, Total	ND	0.099		mg/Kg	1	10/23/2020 4:47:42 PM	55969
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	10/23/2020 4:47:42 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH07 @ 2.5-5'

Project: Chaco 2308

Collection Date: 10/20/2020 9:40:00 AM

Lab ID: 2010957-013

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	730	60		mg/Kg	20	10/27/2020 3:12:14 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/23/2020 4:08:38 PM	55973
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/23/2020 4:08:38 PM	55973
Surr: DNOP	102	30.4-154		%Rec	1	10/23/2020 4:08:38 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 5:11:27 PM	55969
Surr: BFB	94.9	75.3-105		%Rec	1	10/23/2020 5:11:27 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/23/2020 5:11:27 PM	55969
Toluene	ND	0.049		mg/Kg	1	10/23/2020 5:11:27 PM	55969
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 5:11:27 PM	55969
Xylenes, Total	ND	0.098		mg/Kg	1	10/23/2020 5:11:27 PM	55969
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	10/23/2020 5:11:27 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-014

Matrix: SOIL

Client Sample ID: BH07 @ 12.5-15'
Collection Date: 10/20/2020 10:00:00 AM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	400	60		mg/Kg	20	10/27/2020 3:24:39 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/23/2020 4:18:22 PM	55973
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/23/2020 4:18:22 PM	55973
Surr: DNOP	96.4	30.4-154		%Rec	1	10/23/2020 4:18:22 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/23/2020 5:34:45 PM	55969
Surr: BFB	94.4	75.3-105		%Rec	1	10/23/2020 5:34:45 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/23/2020 5:34:45 PM	55969
Toluene	ND	0.047		mg/Kg	1	10/23/2020 5:34:45 PM	55969
Ethylbenzene	ND	0.047		mg/Kg	1	10/23/2020 5:34:45 PM	55969
Xylenes, Total	ND	0.094		mg/Kg	1	10/23/2020 5:34:45 PM	55969
Surr: 4-Bromofluorobenzene	99.8	80-120		%Rec	1	10/23/2020 5:34:45 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-015

Matrix: SOIL

Client Sample ID: BH08 @ 0-2.5'
Collection Date: 10/20/2020 10:10:00 AM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/27/2020 3:37:04 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/23/2020 4:28:10 PM	55973
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/23/2020 4:28:10 PM	55973
Surr: DNOP	90.7	30.4-154		%Rec	1	10/23/2020 4:28:10 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/23/2020 5:58:08 PM	55969
Surr: BFB	96.7	75.3-105		%Rec	1	10/23/2020 5:58:08 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/23/2020 5:58:08 PM	55969
Toluene	ND	0.047		mg/Kg	1	10/23/2020 5:58:08 PM	55969
Ethylbenzene	ND	0.047		mg/Kg	1	10/23/2020 5:58:08 PM	55969
Xylenes, Total	ND	0.094		mg/Kg	1	10/23/2020 5:58:08 PM	55969
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	10/23/2020 5:58:08 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-016

Matrix: SOIL

Client Sample ID: BH08 @ 12.5-15'
Collection Date: 10/20/2020 10:20:00 AM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	290	60		mg/Kg	20	10/27/2020 3:49:28 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/23/2020 4:37:54 PM	55973
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/23/2020 4:37:54 PM	55973
Surr: DNOP	87.8	30.4-154		%Rec	1	10/23/2020 4:37:54 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 6:21:32 PM	55969
Surr: BFB	97.4	75.3-105		%Rec	1	10/23/2020 6:21:32 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/23/2020 6:21:32 PM	55969
Toluene	ND	0.049		mg/Kg	1	10/23/2020 6:21:32 PM	55969
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 6:21:32 PM	55969
Xylenes, Total	ND	0.099		mg/Kg	1	10/23/2020 6:21:32 PM	55969
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	10/23/2020 6:21:32 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH09 @ 0-2.5'

Project: Chaco 2308

Collection Date: 10/20/2020 10:50:00 AM

Lab ID: 2010957-017

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	59		mg/Kg	20	10/27/2020 4:26:42 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/23/2020 4:47:39 PM	55973
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/23/2020 4:47:39 PM	55973
Surr: DNOP	93.2	30.4-154		%Rec	1	10/23/2020 4:47:39 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/23/2020 6:44:54 PM	55969
Surr: BFB	97.0	75.3-105		%Rec	1	10/23/2020 6:44:54 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/23/2020 6:44:54 PM	55969
Toluene	ND	0.050		mg/Kg	1	10/23/2020 6:44:54 PM	55969
Ethylbenzene	ND	0.050		mg/Kg	1	10/23/2020 6:44:54 PM	55969
Xylenes, Total	ND	0.099		mg/Kg	1	10/23/2020 6:44:54 PM	55969
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	10/23/2020 6:44:54 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH09 @ 12.5-15'

Project: Chaco 2308

Collection Date: 10/20/2020 11:00:00 AM

Lab ID: 2010957-018

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/27/2020 4:39:06 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/23/2020 4:57:22 PM	55973
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/23/2020 4:57:22 PM	55973
Surr: DNOP	87.9	30.4-154		%Rec	1	10/23/2020 4:57:22 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 7:08:17 PM	55969
Surr: BFB	96.4	75.3-105		%Rec	1	10/23/2020 7:08:17 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/23/2020 7:08:17 PM	55969
Toluene	ND	0.049		mg/Kg	1	10/23/2020 7:08:17 PM	55969
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 7:08:17 PM	55969
Xylenes, Total	ND	0.099		mg/Kg	1	10/23/2020 7:08:17 PM	55969
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	10/23/2020 7:08:17 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-019

Matrix: SOIL

Client Sample ID: BH10 @ 0-2.5'
Collection Date: 10/20/2020 11:30:00 AM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	410	60		mg/Kg	20	10/27/2020 4:51:30 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/23/2020 5:07:03 PM	55973
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/23/2020 5:07:03 PM	55973
Surr: DNOP	87.0	30.4-154		%Rec	1	10/23/2020 5:07:03 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/23/2020 7:31:41 PM	55969
Surr: BFB	95.0	75.3-105		%Rec	1	10/23/2020 7:31:41 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	10/23/2020 7:31:41 PM	55969
Toluene	ND	0.047		mg/Kg	1	10/23/2020 7:31:41 PM	55969
Ethylbenzene	ND	0.047		mg/Kg	1	10/23/2020 7:31:41 PM	55969
Xylenes, Total	ND	0.093		mg/Kg	1	10/23/2020 7:31:41 PM	55969
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	10/23/2020 7:31:41 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH10 @ 12.5-15'

Project: Chaco 2308

Collection Date: 10/20/2020 11:45:00 AM

Lab ID: 2010957-020

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	84	60		mg/Kg	20	10/27/2020 5:03:55 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/23/2020 5:16:46 PM	55973
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/23/2020 5:16:46 PM	55973
Surr: DNOP	85.4	30.4-154		%Rec	1	10/23/2020 5:16:46 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/23/2020 8:41:50 PM	55969
Surr: BFB	95.3	75.3-105		%Rec	1	10/23/2020 8:41:50 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/23/2020 8:41:50 PM	55969
Toluene	ND	0.047		mg/Kg	1	10/23/2020 8:41:50 PM	55969
Ethylbenzene	ND	0.047		mg/Kg	1	10/23/2020 8:41:50 PM	55969
Xylenes, Total	ND	0.094		mg/Kg	1	10/23/2020 8:41:50 PM	55969
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	10/23/2020 8:41:50 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH11 @ 0-2.5'

Project: Chaco 2308

Collection Date: 10/20/2020 12:00:00 PM

Lab ID: 2010957-021

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	440	59		mg/Kg	20	10/27/2020 5:16:20 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1000	93		mg/Kg	10	10/23/2020 5:26:33 PM	55973
Motor Oil Range Organics (MRO)	970	460		mg/Kg	10	10/23/2020 5:26:33 PM	55973
Surr: DNOP	0	30.4-154	S	%Rec	10	10/23/2020 5:26:33 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2020 9:05:23 PM	55969
Surr: BFB	101	75.3-105		%Rec	1	10/23/2020 9:05:23 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/23/2020 9:05:23 PM	55969
Toluene	ND	0.048		mg/Kg	1	10/23/2020 9:05:23 PM	55969
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2020 9:05:23 PM	55969
Xylenes, Total	ND	0.096		mg/Kg	1	10/23/2020 9:05:23 PM	55969
Surr: 4-Bromofluorobenzene	99.1	80-120		%Rec	1	10/23/2020 9:05:23 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH11 @ 12.5-15'

Project: Chaco 2308

Collection Date: 10/20/2020 12:15:00 PM

Lab ID: 2010957-022

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	500	60		mg/Kg	20	10/27/2020 5:28:45 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/23/2020 5:36:22 PM	55973
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/23/2020 5:36:22 PM	55973
Surr: DNOP	78.7	30.4-154		%Rec	1	10/23/2020 5:36:22 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 9:28:57 PM	55969
Surr: BFB	92.9	75.3-105		%Rec	1	10/23/2020 9:28:57 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/23/2020 9:28:57 PM	55969
Toluene	ND	0.049		mg/Kg	1	10/23/2020 9:28:57 PM	55969
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 9:28:57 PM	55969
Xylenes, Total	ND	0.098		mg/Kg	1	10/23/2020 9:28:57 PM	55969
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	10/23/2020 9:28:57 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH12 @ 0-2.5'

Project: Chaco 2308

Collection Date: 10/20/2020 1:00:00 PM

Lab ID: 2010957-023

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	280	59		mg/Kg	20	10/27/2020 5:41:09 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	230	9.7		mg/Kg	1	10/23/2020 5:46:13 PM	55973
Motor Oil Range Organics (MRO)	200	49		mg/Kg	1	10/23/2020 5:46:13 PM	55973
Surr: DNOP	124	30.4-154		%Rec	1	10/23/2020 5:46:13 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	9.6		mg/Kg	2	10/23/2020 9:52:28 PM	55969
Surr: BFB	103	75.3-105		%Rec	2	10/23/2020 9:52:28 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.048		mg/Kg	2	10/23/2020 9:52:28 PM	55969
Toluene	ND	0.096		mg/Kg	2	10/23/2020 9:52:28 PM	55969
Ethylbenzene	ND	0.096		mg/Kg	2	10/23/2020 9:52:28 PM	55969
Xylenes, Total	ND	0.19		mg/Kg	2	10/23/2020 9:52:28 PM	55969
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	2	10/23/2020 9:52:28 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH12 @ 2.5-5'

Project: Chaco 2308

Collection Date: 10/20/2020 1:10:00 PM

Lab ID: 2010957-024

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2400	60		mg/Kg	20	10/27/2020 5:53:33 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	28	9.4		mg/Kg	1	10/23/2020 6:05:56 PM	55973
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/23/2020 6:05:56 PM	55973
Surr: DNOP	98.1	30.4-154		%Rec	1	10/23/2020 6:05:56 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	11	9.7		mg/Kg	2	10/24/2020 8:24:10 PM	55969
Surr: BFB	114	75.3-105	S	%Rec	2	10/24/2020 8:24:10 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	0.053	0.048		mg/Kg	2	10/24/2020 8:24:10 PM	55969
Toluene	ND	0.097		mg/Kg	2	10/24/2020 8:24:10 PM	55969
Ethylbenzene	ND	0.097		mg/Kg	2	10/24/2020 8:24:10 PM	55969
Xylenes, Total	0.28	0.19		mg/Kg	2	10/24/2020 8:24:10 PM	55969
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	2	10/24/2020 8:24:10 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH12 @ 7.5-9'

Project: Chaco 2308

Collection Date: 10/20/2020 1:20:00 PM

Lab ID: 2010957-025

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	790	59		mg/Kg	20	10/27/2020 6:05:58 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	18	10		mg/Kg	1	10/23/2020 6:15:48 PM	55973
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/23/2020 6:15:48 PM	55973
Surr: DNOP	111	30.4-154		%Rec	1	10/23/2020 6:15:48 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/23/2020 10:39:13 PM	55969
Surr: BFB	103	75.3-105		%Rec	1	10/23/2020 10:39:13 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/23/2020 10:39:13 PM	55969
Toluene	ND	0.048		mg/Kg	1	10/23/2020 10:39:13 PM	55969
Ethylbenzene	ND	0.048		mg/Kg	1	10/23/2020 10:39:13 PM	55969
Xylenes, Total	ND	0.097		mg/Kg	1	10/23/2020 10:39:13 PM	55969
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	10/23/2020 10:39:13 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-026

Matrix: SOIL

Client Sample ID: BH13 @ 0-2.5'
Collection Date: 10/20/2020 1:40:00 PM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/27/2020 6:18:22 PM	56055
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/23/2020 6:25:40 PM	55973
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/23/2020 6:25:40 PM	55973
Surr: DNOP	92.4	30.4-154		%Rec	1	10/23/2020 6:25:40 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 11:02:49 PM	55969
Surr: BFB	94.6	75.3-105		%Rec	1	10/23/2020 11:02:49 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/23/2020 11:02:49 PM	55969
Toluene	ND	0.049		mg/Kg	1	10/23/2020 11:02:49 PM	55969
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 11:02:49 PM	55969
Xylenes, Total	ND	0.098		mg/Kg	1	10/23/2020 11:02:49 PM	55969
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	10/23/2020 11:02:49 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE

Client Sample ID: BH13 @ 2.5-5'

Project: Chaco 2308

Collection Date: 10/20/2020 2:00:00 PM

Lab ID: 2010957-027

Matrix: SOIL

Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	89	61		mg/Kg	20	10/26/2020 2:18:19 PM	56038
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/23/2020 6:35:32 PM	55973
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/23/2020 6:35:32 PM	55973
Surr: DNOP	91.4	30.4-154		%Rec	1	10/23/2020 6:35:32 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 11:26:20 PM	55969
Surr: BFB	94.0	75.3-105		%Rec	1	10/23/2020 11:26:20 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	10/23/2020 11:26:20 PM	55969
Toluene	ND	0.049		mg/Kg	1	10/23/2020 11:26:20 PM	55969
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 11:26:20 PM	55969
Xylenes, Total	ND	0.098		mg/Kg	1	10/23/2020 11:26:20 PM	55969
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	10/23/2020 11:26:20 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order 2010957

Date Reported: 10/28/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: LTE
Project: Chaco 2308
Lab ID: 2010957-028

Matrix: SOIL

Client Sample ID: BH14 @ 2.5-5'
Collection Date: 10/20/2020 2:30:00 PM
Received Date: 10/21/2020 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	10/26/2020 2:30:44 PM	56038
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/23/2020 6:45:22 PM	55973
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/23/2020 6:45:22 PM	55973
Surr: DNOP	69.7	30.4-154		%Rec	1	10/23/2020 6:45:22 PM	55973
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/23/2020 11:49:58 PM	55969
Surr: BFB	95.9	75.3-105		%Rec	1	10/23/2020 11:49:58 PM	55969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	10/23/2020 11:49:58 PM	55969
Toluene	ND	0.049		mg/Kg	1	10/23/2020 11:49:58 PM	55969
Ethylbenzene	ND	0.049		mg/Kg	1	10/23/2020 11:49:58 PM	55969
Xylenes, Total	ND	0.098		mg/Kg	1	10/23/2020 11:49:58 PM	55969
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	10/23/2020 11:49:58 PM	55969

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010957

28-Oct-20

Client: LTE
Project: Chaco 2308

Sample ID: MB-56009	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56009	RunNo: 72886								
Prep Date: 10/23/2020	Analysis Date: 10/23/2020	SeqNo: 2563358	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56009	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56009	RunNo: 72886								
Prep Date: 10/23/2020	Analysis Date: 10/23/2020	SeqNo: 2563359	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Sample ID: MB-56038	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56038	RunNo: 72931								
Prep Date: 10/26/2020	Analysis Date: 10/26/2020	SeqNo: 2564017	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56038	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56038	RunNo: 72931								
Prep Date: 10/26/2020	Analysis Date: 10/26/2020	SeqNo: 2564018	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

Sample ID: MB-56055	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56055	RunNo: 72930								
Prep Date: 10/27/2020	Analysis Date: 10/27/2020	SeqNo: 2565213	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56055	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56055	RunNo: 72930								
Prep Date: 10/27/2020	Analysis Date: 10/27/2020	SeqNo: 2565214	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010957

28-Oct-20

Client: LTE
Project: Chaco 2308

Sample ID: 2010957-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH01 @ 0-2.5'	Batch ID: 55965	RunNo: 72844								
Prep Date: 10/21/2020	Analysis Date: 10/22/2020	SeqNo: 2560333	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	8.7	43.63	0	97.4	15	184			
Surr: DNOP	4.3		4.363		99.0	30.4	154			

Sample ID: LCS-55965	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55965	RunNo: 72844								
Prep Date: 10/21/2020	Analysis Date: 10/22/2020	SeqNo: 2560334	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	63	10	50.00	0	127	70	130			
Surr: DNOP	6.1		5.000		122	30.4	154			

Sample ID: MB-55965	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55965	RunNo: 72844								
Prep Date: 10/21/2020	Analysis Date: 10/22/2020	SeqNo: 2560335	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		123	30.4	154			

Sample ID: 2010957-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH01 @ 0-2.5'	Batch ID: 55965	RunNo: 72844								
Prep Date: 10/21/2020	Analysis Date: 10/22/2020	SeqNo: 2560542	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	8.5	42.34	0	98.8	15	184	1.57	23.9	
Surr: DNOP	4.2		4.234		99.1	30.4	154	0	0	

Sample ID: LCS-55972	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 55972	RunNo: 72876								
Prep Date: 10/22/2020	Analysis Date: 10/23/2020	SeqNo: 2561698	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.1	30.4	154			

Sample ID: MB-55972	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 55972	RunNo: 72876								
Prep Date: 10/22/2020	Analysis Date: 10/23/2020	SeqNo: 2561699	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010957

28-Oct-20

Client: LTE
Project: Chaco 2308

Sample ID: MB-55972	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 55972		RunNo: 72876							
Prep Date: 10/22/2020	Analysis Date: 10/23/2020		SeqNo: 2561699				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.5	30.4	154			

Sample ID: 2010957-010AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH05 @ 12.5-15'	Batch ID: 55973		RunNo: 72876							
Prep Date: 10/22/2020	Analysis Date: 10/23/2020		SeqNo: 2562796				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.3	46.73	0	84.3	15	184			
Surr: DNOP	4.6		4.673		97.8	30.4	154			

Sample ID: 2010957-010AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH05 @ 12.5-15'	Batch ID: 55973		RunNo: 72876							
Prep Date: 10/22/2020	Analysis Date: 10/23/2020		SeqNo: 2562797				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	9.3	46.25	0	78.7	15	184	7.81	23.9	
Surr: DNOP	4.0		4.625		87.5	30.4	154	0	0	

Sample ID: LCS-55973	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 55973		RunNo: 72876							
Prep Date: 10/22/2020	Analysis Date: 10/23/2020		SeqNo: 2562830				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.2	70	130			
Surr: DNOP	4.8		5.000		95.8	30.4	154			

Sample ID: MB-55973	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 55973		RunNo: 72876							
Prep Date: 10/22/2020	Analysis Date: 10/23/2020		SeqNo: 2562832				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.8	30.4	154			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010957

28-Oct-20

Client: LTE
Project: Chaco 2308

Sample ID: 2010957-011ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH06 @ 2.5-5'	Batch ID: 55969	RunNo: 72897								
Prep Date: 10/21/2020	Analysis Date: 10/23/2020	SeqNo: 2562358	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.70	0	94.1	61.3	114			
Surr: BFB	1000		988.1		104	75.3	105			

Sample ID: 2010957-011amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH06 @ 2.5-5'	Batch ID: 55969	RunNo: 72897								
Prep Date: 10/21/2020	Analysis Date: 10/23/2020	SeqNo: 2562359	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.75	0	91.4	61.3	114	2.65	20	
Surr: BFB	1100		990.1		107	75.3	105	0	0	S

Sample ID: ics-55969	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 55969	RunNo: 72897								
Prep Date: 10/21/2020	Analysis Date: 10/23/2020	SeqNo: 2562394	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.8	72.5	106			
Surr: BFB	1100		1000		108	75.3	105			S

Sample ID: mb-55969	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 55969	RunNo: 72897								
Prep Date: 10/21/2020	Analysis Date: 10/23/2020	SeqNo: 2562396	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.1	75.3	105			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010957

28-Oct-20

Client: LTE
Project: Chaco 2308

Sample ID: 2010957-010ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH05 @ 12.5-15'	Batch ID: 55969	RunNo: 72897								
Prep Date: 10/21/2020	Analysis Date: 10/23/2020	SeqNo: 2562404	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9690	0	95.4	76.3	120			
Toluene	0.98	0.048	0.9690	0	101	78.5	120			
Ethylbenzene	1.0	0.048	0.9690	0	104	78.1	124			
Xylenes, Total	3.0	0.097	2.907	0	104	79.3	125			
Surr: 4-Bromofluorobenzene	0.99		0.9690		102	80	120			

Sample ID: 2010957-010amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH05 @ 12.5-15'	Batch ID: 55969	RunNo: 72897								
Prep Date: 10/21/2020	Analysis Date: 10/23/2020	SeqNo: 2562405	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9497	0	95.0	76.3	120	2.42	20	
Toluene	0.96	0.047	0.9497	0	101	78.5	120	2.36	20	
Ethylbenzene	0.99	0.047	0.9497	0	104	78.1	124	1.77	20	
Xylenes, Total	3.0	0.095	2.849	0	105	79.3	125	1.73	20	
Surr: 4-Bromofluorobenzene	0.97		0.9497		102	80	120	0	0	

Sample ID: LCS-55969	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 55969	RunNo: 72897								
Prep Date: 10/21/2020	Analysis Date: 10/23/2020	SeqNo: 2562443	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.0	80	120			
Toluene	0.95	0.050	1.000	0	95.1	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID: mb-55969	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 55969	RunNo: 72897								
Prep Date: 10/21/2020	Analysis Date: 10/23/2020	SeqNo: 2562445	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010957

28-Oct-20

Client: LTE
Project: Chaco 2308

Sample ID: mb-55960	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 55960	RunNo: 72871								
Prep Date: 10/21/2020	Analysis Date: 10/22/2020	SeqNo: 2561413	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.4	70	130			
Surr: 4-Bromofluorobenzene	0.57		0.5000		115	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.3	70	130			
Surr: Toluene-d8	0.52		0.5000		103	70	130			

Sample ID: Ics-55960	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 55960	RunNo: 72871								
Prep Date: 10/21/2020	Analysis Date: 10/22/2020	SeqNo: 2561414	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	80.3	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.3	70	130			
Surr: 4-Bromofluorobenzene	0.55		0.5000		111	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.3	70	130			
Surr: Toluene-d8	0.53		0.5000		106	70	130			

Sample ID: 2010957-001ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BH01 @ 0-2.5'	Batch ID: 55960	RunNo: 72871								
Prep Date: 10/21/2020	Analysis Date: 10/23/2020	SeqNo: 2561416	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9756	0	98.7	71.1	115			
Toluene	1.1	0.049	0.9756	0	112	79.6	132			
Ethylbenzene	1.1	0.049	0.9756	0	113	83.8	134			
Xylenes, Total	3.3	0.098	2.927	0	112	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.50		0.4878		103	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.4878		109	70	130			
Surr: Dibromofluoromethane	0.53		0.4878		109	70	130			
Surr: Toluene-d8	0.51		0.4878		104	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010957

28-Oct-20

Client: LTE
Project: Chaco 2308

Sample ID: 2010957-001amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BH01 @ 0-2.5'	Batch ID: 55960	RunNo: 72871								
Prep Date: 10/21/2020	Analysis Date: 10/23/2020	SeqNo: 2561417 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9804	0	103	71.1	115	4.74	20	
Toluene	1.1	0.049	0.9804	0	114	79.6	132	2.54	20	
Ethylbenzene	1.2	0.049	0.9804	0	118	83.8	134	4.85	20	
Xylenes, Total	3.4	0.098	2.941	0	116	82.4	132	4.01	20	
Surr: 1,2-Dichloroethane-d4	0.51		0.4902		104	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.54		0.4902		111	70	130	0	0	
Surr: Dibromofluoromethane	0.55		0.4902		112	70	130	0	0	
Surr: Toluene-d8	0.51		0.4902		104	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2010957

28-Oct-20

Client: LTE
Project: Chaco 2308

Sample ID: mb-55960	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 55960		RunNo: 72871							
Prep Date: 10/21/2020	Analysis Date: 10/22/2020		SeqNo: 2561431		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	470		500.0		94.8	70	130			

Sample ID: lcs-55960	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 55960		RunNo: 72871							
Prep Date: 10/21/2020	Analysis Date: 10/22/2020		SeqNo: 2561432		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	94.0	70	130			
Surr: BFB	480		500.0		96.7	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: LTE Work Order Number: 2010957 RcptNo: 1

Received By: Cheyenne Cason 10/21/2020 8:10:00 AM

Completed By: Erin Melendrez 10/21/2020 9:13:49 AM

Reviewed By: S.P.A. 10/21/20

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

- 3. Was an attempt made to cool the samples? Yes [checked] No [] NA []
4. Were all samples received at a temperature of >0° C to 6.0° C Yes [checked] No [] NA []
5. Sample(s) in proper container(s)? Yes [checked] No []
6. Sufficient sample volume for indicated test(s)? Yes [checked] No []
7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []
8. Was preservative added to bottles? Yes [] No [checked] NA []
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]
10. Were any sample containers received broken? Yes [] No [checked]
11. Does paperwork match bottle labels? Yes [checked] No []
12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []
13. Is it clear what analyses were requested? Yes [checked] No []
14. Were all holding times able to be met? Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: JR 10/21/20

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 3.4, Good, [], [], []

Chain-of-Custody Record

Client: LTE

Mailing Address: 846 E. 2nd Ave
Durango, CO. 81301

Phone #: 970-385-1096

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush _____

Project Name: Chaco 2308

Project #: 077920007

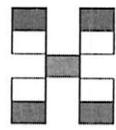
Project Manager: Stuart Hyde

Sampler: E. Carroll

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 39 ± 0 = 39 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl-, F-, Br-, NO3-, NO2-, PO4-, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/19	1150	Soil	BH01 @ 0-2.5'	14 ⁰²	Cool	2010957-001	X	X					X			
	1200		BH01 @ 12.5-15'	14 ⁰²		-002										
	1220		BH12 @ 2.5-5'			-003										
	1230		BH12 @ 12.5-15'			-004										
	1310		BH02 @ 2.5-5'			-005										
	1315		BH03 @ 12.5-15'			-006										
	1340		BH04 @ 7.5-10'			-007										
	1350		BH04 @ 12.5-15'			-008										
	1420		BH05 @ 2.5-5'			-009										
	1426		BH05 @ 12.5-15'			-010										
	1500		BH06 @ 2.5-5'			-011										
	1510		BH06 @ 12.5-15'			-012										

Date: 10/20 Time: 1407 Relinquished by: E. Carroll

Date: 10/20 Time: 1803 Relinquished by: Christina Wilton

Received by: [Signature] Via: _____ Date: 10/20/2020 Time: 1407

Received by: [Signature] Via: _____ Date: 10/21/20 Time: 0810

Remarks: Cooler seal intact
Core intact

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: LTE

Mailing Address: 844 E 2nd Ave
Durango, CO. 81301

Phone #: 970-385-1096

email or Fax#:

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush

Project Name: Chaco 2304

Project #: 077920007

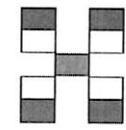
Project Manager: Stuart Hyde

Sampler: E. Carroll

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 3.9 ± 0.2 = 3.9 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTX	MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/20	946	soil	BH07@ 2.5-5'	1402	cool	2010957	X	X						X			
	1000		BH07@ 12.5-15'			-014											
	1010		BH08@ 0-2.5'			-015											
	1070		BH08@ 12.5-15'			-016											
	1050		BH09@ 0-2.5'			-017											
	1000		BH09@ 12.5-15'			-018											
	1130		BH10@ 0-2.5'			-019											
	1145		BH10@ 12.5-15'			-020											
	1200		BH11@ 0-2.5'			-021											
	1215		BH11@ 12.5-15'			-022											
	1300		BH12@ 0-2.5'			-023											
	1315		BH12@ 2.5-5'			-024											

Date: <u>10/20</u>	Time: <u>1457</u>	Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Via:	Date: <u>10/20/2020</u>	Time: <u>1407</u>
Date: <u>10/20/2020</u>	Time: <u>1803</u>	Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Via:	Date: <u>10/20/2020</u>	Time: <u>0810</u>

Remarks: Seal intact on cooler on 10/20/20

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

APPENDIX

D WSP BORING LOGS



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BH01	Project: Chaco 2308
Date: 10/19	Project Number: 077920007
Logged By: E. Carroll	Drilled By: Enviro-Drill
Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Seal: Hydrated Bentonite Chips	Grout: Bentonite-Cement Slurry
Diameter: 2" Length:	Hole Diameter: 6" Depth to Liquid: NA
Diameter: 2" Length:	Total Depth: 15' Depth to Water: NA



Elevation: **5,688** Detector: **PID**

Gravel Pack: **10-20 Silica Sand**

Casing Type: **Schedule 40 PVC**

Screen Type: **Schedule 40 PVC** Slot: **0.010"**

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
					0				moist, coarse sand, trace silt dark brown Q _{tab} = 2.6 / 316 mg/L	
	m	3.5	N		1					
					2	1				
					3				moist, Dark brown and black sand and clay Q _{tab} = 1.0 < 120 mg/L	
	m	4.6	N		4					
					5					
					6				Dry black, clay, few sand Q _{tab} = 1.0 < 120 mg/L SAA Dry black, weathered shale Q _{tab} = 1.0 < 120 mg/L	
	D	3.5	N		7					
					8	2				
					9				SAA Q _{tab} = 0.8 < 120 SAA Q _{tab} = 0.8 < 120	
	D	4.1	N		10					
					11					
					12					
					13					
					14					
					15					



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BH02		Project: Chaco 2308	
Date: 10/19		Project Number: 077920007	
Logged By: E. Carroll		Drilled By: Enviro-Drill	
Elevation: 5,688	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand		Seal: Hydrated Bentonite Chips	Grout: Bentonite-Cement Slurry
Casing Type: Schedule 40 PVC		Diameter: 2"	Length: 6'
Screen Type: Schedule 40 PVC		Diameter: 2"	Length: 15'
Slot: 0.010"		Total Depth: 15'	Depth to Liquid: NA
			Depth to Water: NA

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
					0					
		1.9	N		1				Dry lt reddish brown, coarse sand, some salt crusting	
					2				Q _{tab} = 1.6 / 120 mg/L	
		3.2	N	BH02 2.5-5.5' 1730	3				Dry lt brown, coarse sand	
					4				Q _{tab} = 1.6 / 120 mg/L	
					5					
		2.2	N		6				Dry gray black, highly weathered shale	
					7				Q _{tab} = 1.2 < 120 mg/L	
					8					
		2.1	N		9				Dry black, weathered shale	
					10				Q _{tab} = 1.0 < 120 mg/L	
					11				SAA	
		1.1	N		12				Q _{tab} = 0.8 < 120 mg/L	
					13				SAA	
		0.8	N	BH02 12.5-15' 1730	14				SAA	
					15				Q _{tab} = 0.6 < 120 mg/L	



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BH03		Project: Chaco 2308	
Date: 10/19/20		Project Number: 077920007	
Logged By: E. Carroll		Drilled By: Enviro-Drill	
Elevation: 5,688	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand		Seal: Hydrated Bentonite Chips	Grout: Bentonite-Cement Slurry
Casing Type: Schedule 40 PVC	Diameter: 2"	Length:	Hole Diameter: 6"
Screen Type: Schedule 40 PVC	Slot: 0.010"	Diameter: 2"	Length:
		Total Depth: 15'	Depth to Liquid: N/A
			Depth to Water: N/A

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
		1.0	N		0				Dry lt brown, coarse sand, few silt	
					1				Q _{tab} = 0.8 < 120 mg/l	
					2					
		1.7	N	BH03	3	25-3			SAA	
					4				Q _{tab} = 0.6 < 120 mg/l	
					5	13W			Highly weathered shale	
		0.8	N		6				Black weathered shale	
					7				Q _{tab} = 0.4 < 120 mg/l	
		0.7	N		8				SAA	
					9				Q _{tab} = 0.4 < 120	
					10					
		1.0	N		11				SAA	
					12				Q _{tab} = 0.4 < 120	
		0.8	N	BH03	13				SAA	
					14	12.5-			Q _{tab} = 0.7 < 120	
					15	15.25				



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BH04		Project: Chaco 2308	
Date: 10/19		Project Number: 077920007	
Logged By: E. Carroll		Drilled By: Enviro-Drill	
Elevation: 5,688	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand		Seal: Hydrated Bentonite Chips	Grout: Bentonite-Cement Slurry
Casing Type: Schedule 40 PVC	Diameter: 2"	Length:	Hole Diameter: 6"
Screen Type: Schedule 40 PVC	Slot: 0.010"	Diameter: 2"	Length:
		Total Depth: 15'	Depth to Liquid: NA
			Depth to Water: NA

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
		1.3	N		0				Dry, lt brown, coarse sand, few silb	
					1				Q _{tab} = 1.0 < 120 mg/l	
					2					
		1.6	N		3				Dry lt brown, sand, some silb	
					4				Q _{tab} = 1.0 < 120 mg/l	
					5					
		2.5	N		6				SAA	
					7				Q _{tab} = 1.0 < 120 mg/l	
		4.0	N	BH04 75-17	8				SAA weathered shale @ 9'	
				1340	9				Q _{tab} = 1.0 < 120 mg/l	
					10					
		0.9	N		11				Black weathered shale	
					12				Q _{tab} = 0.8 < 120 mg/l	
		0.9	N	BH04 125-13	13				SAA	
				1350	14				Q _{tab} = 1.0 < 120 mg/l	
					15					



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>BH05</i>	Project: Chaco 2308
Date: <i>10/19/20</i>	Project Number: 077920007
Logged By: E. Carroll	Drilled By: Enviro-Drill
Elevation: 5,688	Detector: PID
Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand	Seal: Hydrated Bentonite Chips
Casing Type: Schedule 40 PVC	Grout: Bentonite-Cement Slurry
Screen Type: Schedule 40 PVC	Diameter: 2"
Slot: 0.010"	Length: 2"
	Hole Diameter: <i>6"</i>
	Depth to Liquid: <i>NA</i>
	Total Depth: <i>15'</i>
	Depth to Water: <i>NA</i>

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
		4.0	N		0				Dry, it brown sand, some silt	
					1				$Q_{tab} = 0.4 < 120$	
					2					
		5.1	N	BH05	3				SAA	
				2.5-5	4				$Q_{tab} = 0.6 < 120$	
				1420	5					
		1.8	N		6				Dry, gray sand, some silt	
					7				$Q_{tab} = 0.0 < 120$	
		1.6	N		8				Highly weathered black shale	
					9				$Q_{tab} = 0.0 < 120$	
					10					
		1.8	N		11				SAA	
					12				$Q_{tab} = 0.0 < 120$	
		1.3	N	BH05	13				SAA	
				12.5-15	14					
				1426	15				$Q_{tab} = 0.2 < 120$	



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>BH06</i>		Project: Chaco 2308	
Date: <i>10/19/20</i>		Project Number: 077920007	
Logged By: E. Carroll		Drilled By: Enviro-Drill	
Drilling Method: Hollow Stem Auger		Sampling Method: Continuous	
Seal: Hydrated Bentonite Chips		Grout: Bentonite-Cement Slurry	
Casing Type: Schedule 40 PVC	Diameter: 2"	Length:	Hole Diameter: <i>6"</i>
Screen Type: Schedule 40 PVC	Slot: 0.010"	Diameter: 2"	Length:
		Total Depth: <i>15'</i>	Depth to Liquid: <i>NA</i>
		Depth to Water: <i>NA</i>	

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
					0					
	D	1.3	N		1				Dry, lt brown sand, some silt	
					2				$Q_{tab} = 0.6 < 120$ m/k	
	D	33.4	N	BH06 2.5-5 1500	3				SAA	
					4				$Q_{tab} = 0.6 < 120$	
	D	12.8	N		6				Dark brown sandy, some silt	
					7				$Q_{tab} = 0.4 < 120$	
	D	6.2	N		8				SAA	
					9				$Q_{tab} = 0.4 < 120$	
	D	3.1	N		11				Black weathered shale	
					12				$Q_{tab} = 0.4 < 120$	
	D	1.7	N	BH06 12.5-15 1510	13				SAA	
					14				$Q_{tab} = 0.7 < 120$	
					15					



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>BH07</i>	Project: Chaco 2308
Date: <i>10/19/20</i>	Project Number: 077920007
Logged By: E. Carroll	Drilled By: Enviro-Drill

Elevation: 5,688	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand	Seal: Hydrated Bentonite Chips	Grout: Bentonite-Cement Slurry	
Casing Type: Schedule 40 PVC	Diameter: 2"	Length: 6"	Hole Diameter: 6"
Screen Type: Schedule 40 PVC	Slot: 0.010"	Diameter: 2"	Length: 15'
			Depth to Liquid: NA
			Depth to Water: NA

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
					0					
	D	1.2	N		1				Dry, lt brown, sand, some silt	
					2				Q tab = 2.8 / 364 mg/L	
	m	5.1	N	BH07	3				^{moist} Dry, brown sand, some silt	
				2.5-5	4				Q tab = 4.2 / 748 mg/L	
				09:40	5					
	D	3.6	N		6				Black weathered shale	
					7				Q tab = 2.4 / 268 mg/L	
	D	3.2	N		8				SAA	
					9				Q tab = 0.8 < 120	
					10					
	No Recovery				11				NO Recovery	
					12					
	D	2.8	N	BH07	13				Black weathered shale	
				12.5-15'	14				Q tab = 0.8 < 120	
				10:00	15					



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: <i>BH08</i>	Project: Chaco 2308
Date: <i>10/20</i>	Project Number: 077920007
Logged By: E. Carroll	Drilled By: Enviro-Drill
Elevation: 5,688	Detector: PID
Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand	Seal: Hydrated Bentonite Chips
Casing Type: Schedule 40 PVC	Grout: Bentonite-Cement Slurry
Screen Type: Schedule 40 PVC	Diameter: 2"
Slot: 0.010"	Length: 2"
	Hole Diameter: 6"
	Depth to Liquid: N/A
	Total Depth: 15'
	Depth to Water: N/A

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
					0					
	D	1.8	N	BH08 0-2.5 10:10	1				Dry it brown sand, some silt Q _{tab} = 0.6 < 120 mg/L	
					2					
					3				SAA	
	D	1.6	N		4				Q _{tab} = 0.4 < 120	
					5					
	D	2.2	N		6				Black weathered shale	
					7				Q _{tab} = 0.4 < 120	
					8					
	D	2.1	N		9				Black weathered shale	
					10				Q _{tab} = 0.4 < 120	
					11					
	D	1.8	N		12				SAA	
					13				Q _{tab} = 0.2 < 120	
					14					
	D	1.3	N	BH08 12.5-15 10:20	15				SAA	
									Q _{tab} = 0.2 < 120	



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BH09	Project: Chaco 2308
Date: 10/20	Project Number: 077920007
Logged By: E. Carroll	Drilled By: Enviro-Drill
Elevation: 5,688	Detector: PID
Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand	Seal: Hydrated Bentonite Chips
Casing Type: Schedule 40 PVC	Grout: Bentonite-Cement Slurry
Screen Type: Schedule 40 PVC	Diameter: 2"
Slot: 0.010"	Length: 2"
	Hole Diameter: 6"
	Depth to Liquid: NA
	Total Depth: 15'
	Depth to Water: NT

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
					0					
	D	0.8	N	BH09 0-5' 1050	1				Dry, 12 brown, coarse sand some silt	
	↓	↓	↓		2				low recovery 0-5'	
	↓	↓	↓		3				Q _{tab} = 0.6 < 120	
					4					
					5					
	D	2.4	N		6				Dry Black weathered shale	
					7				low recovery 5-10'	
	↓	↓	↓		8				Q _{tab} = 0.7 < 120 mg/L	
					9					
					10					
	D	1.6	N	BH09 10-15 11:00	11				SAA	
					12				low recovery 10-15'	
	↓	↓	↓		13				Q _{tab} = 0.2 < 120 mg/L	
					14					
					15					



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BH10		Project: Chaco 2308	
Date: 10/20		Project Number: 077920007	
Logged By: E. Carroll		Drilled By: Enviro-Drill	
Elevation: 5,688	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand		Seal: Hydrated Bentonite Chips	Grout: Bentonite-Cement Slurry
Casing Type: Schedule 40 PVC		Diameter: 2" Length: 6"	Hole Diameter: 6" Depth to Liquid: NA
Screen Type: Schedule 40 PVC Slot: 0.010"		Diameter: 2" Length: 15'	Total Depth: 15' Depth to Water: NA

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
					0					
	M	8.2	N	BH10 0-2.5 11:30	1				Dry lt brown sand, some silt Q _{tab} = 2.4 268 mg/L	
					2					
	M	7.8	N		3				Dry highly weathered shale Q _{tab} = 2.7 274 mg/L	
					4					
					5					
	M	5.9	N		6				Dry weathered shale Q _{tab} = 1.4 < 120 mg/L	
					7					
					8				SAA	
	M	5.6	N		9				Q _{tab} = 0.8 < 120 mg/L	
					10				SAA	
	D	4.2	N		11				Q _{tab} = 0.8 < 120 mg/L	
					12					
					13				SAA	
	D	3.6	N	BH10 12.5-15 11:45	14				Q _{tab} = 0.4 < 120 mg/L	
					15					



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BH11		Project: Chaco 2308	
Date: 10/20/20		Project Number: 077920007	
Logged By: E. Carroll		Drilled By: Enviro-Drill	
Elevation: 5,688	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand		Seal: Hydrated Bentonite Chips	Grout: Bentonite-Cement Slurry
Casing Type: Schedule 40 PVC	Diameter: 2"	Length:	Hole Diameter: 2"
Screen Type: Schedule 40 PVC	Slot: 0.010"	Diameter: 2"	Length:
		Total Depth: 15'	Depth to Liquid: NA
			Depth to Water: NA

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
		114.3		BH11	0				moist, brown, sand, some silt, shale at 2'	
	M	42.8	✓	0-2.5'	1				Q _{tob} = 4.0 688 mg/L	
			@ Surface	12:00	2					
	M	42.8	N		3				Black, moist, highly weathered shale	
		114.3			4				Q _{tob} = 1.0 < 120 mg/L	
					5					
	D	39.7	N		6				Black, weathered shale	
					7				Q _{tob} = 0.6 < 120 mg/L	
					8				SAA	
	D	37.3	N		9				Q _{tob} = 0.6 < 120 mg/L	
					10					
	D	19.5	N		11				SAA	
					12				Q _{tob} = 0.4 < 120 mg/L	
					13					
	D	12.3	N	BH11	13				SAA	
				12.5-15	14				Q _{tob} = 0.4 < 120 mg/L	
				12:15	15					



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BH 12		Project: Chaco 2308	
Date: 10/20/20		Project Number: 077920007	
Logged By: E. Carroll		Drilled By: Enviro-Drill	
Elevation: 5,688	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand		Seal: Hydrated Bentonite Chips	Grout: Bentonite-Cement Slurry
Casing Type: Schedule 40 PVC	Diameter: 2"	Length: 0"	Hole Diameter: 0" Depth to Liquid: NA
Screen Type: Schedule 40 PVC	Slot: 0.010"	Diameter: 2"	Length: 15'9" Total Depth: 15'9" Depth to Water: NA

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
					0				Hydro val pot hole to 1'	
	M	315	N	BH12 0-2.5 1300	1				loose, lt brown coarse sand Qtab = 1.6 120 mg/L	
	M	244	Y	BH12 2.5-5 1310	3				loose, lt brown sand, some clay & silt gray HC stain Qtab = 6.6 1,740 mg/L	
	D	35.2	N		4				Dry, weathered, black shale Qtab = 3.0 417 mg/L	
	D	153	N	BH12 7.5-9 1320	6				SAA Qtab = 2.0 184 mg/L Refusal @ 9'	
					7					
					8					
					9					
					10					
					11					
					12					
					13					
					14					
					15					



BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: BH13		Project: Chaco 2308	
Date: 6/20		Project Number: 077920007	
Logged By: E. Carroll		Drilled By: Enviro-Drill	
Elevation: 5,688	Detector: PID	Drilling Method: Hollow Stem Auger	Sampling Method: Continuous
Gravel Pack: 10-20 Silica Sand		Seal: Hydrated Bentonite Chips	Grout: Bentonite-Cement Slurry
Casing Type: Schedule 40 PVC		Diameter: 2" Length:	Hole Diameter: 2" Depth to Liquid: N/A
Screen Type: Schedule 40 PVC Slot: 0.010"		Diameter: 2" Length:	Total Depth: 6' Depth to Water: N/A

Penetration Resistance	Moisture Content	Vapor (ppm)	HC Staining?	Sample #	Depth (ft. bgs.)	Sample Run	Recovery	Soil/Rock Type	Lithology/Remarks	Well Completion
	D	2.3	N		0				Dry, lt brown sand, some silt Q _{tab} = 0.6 < 120 mg/L	
					1					
					2					
	D	1.8	N		3				SAA Q _{tab} = 0.6 < 120 mg/L	
					4					
					5					
					6					
					7					
					8					
					9					
					10					
					11					
					12					
					13					
					14					
					15				Refusal @ 6'	

District I
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 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS
 Action 11200

CONDITIONS

Operator: Whiptail Midstream LLC 15 West 6th Street Tulsa, OK 74119	OGRID: 373240
	Action Number: 11200
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	3/28/2022